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Welcome

Dear Attendees,

Welcome to the 18th International Conference on Infant Studies (ICIS) sponsored by the International Society on Infant Studies (ISIS). This year's biennial conference continues the now established tradition of offering the latest research findings in a field that has seen explosive growth over the past two decades. The study of development remains a topic of intense fascination, not only among professionals who study it, but also among the lay public who witness it in their children and grandchildren. This excitement is certainly reflected in this year's rich and varied program. Scott Johnson and Robin Panneton, the program co-chairs for this year's conference, have expertly assembled what promises to be a highly informative and stimulating set of presentations and posters. Wally Dixon deserves our great appreciation for his tireless efforts to secure NIH funding to support undergraduate student travel to the conference. As in years past, the program for this year's conference offers a wonderful mix of invited talks, symposia, and individual posters, and we have added a new format (actually resurrected from the past) of paper sessions on stand-alone findings by individuals not affiliated with a symposium. The downtown Hilton Minneapolis was chosen to enable many opportunities for you to mix with your colleagues and discuss your work without having to leave the hotel. The venue is a beautiful setting, especially because of its location in the heart of the city, with its interconnecting skyway system for accessing the best restaurants and shopping. As is our tradition, the international nature of our society is reflected in contributions by researchers from many different countries. Indeed, we had a total of 920 submissions from 29 different countries! Obviously a conference of this size would not have been possible without a terrific team of volunteers, organized this year by the SRCD staff, headed by Hailey Buck. In fact, this year's conference was entirely organized by the expert staff at the SRCD office that includes Hailey Buck, Susan Lennon, Rick Burdick, David Haener and Anne Perdue. Enjoy the conference and the beautiful city of Minneapolis.



Richard N. Aslin
ISIS President 2010-2012



Officers of the Society

Executive Committee

President	Richard Aslin	University of Rochester
President-Elect	Daphne Maurer	McMaster University
Past-President	David J. Lewkowicz	Florida Atlantic University
Treasurer	Christine Kitamura ('10-'16)	University of Western Sydney
Secretary	John Colombo ('08-'14)	University of Kansas

Members-at-Large

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Cathi Best ('08-'14)	University of Western Sydney
Diane Poulin-Dubois ('06-'12)	Concordia University
Gavin Bremner ('06-'12)	Lancaster University
Janet Werker ('10-'16)	University of British Columbia
Amanda Woodward ('10-'16)	University of Chicago

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Publications	John Colombo	University of Kansas
Website	David J. Lewkowicz	Florida Atlantic University
Undergraduate Committee	Wallace E. Dixon, Jr.	East Tennessee State University
Program ICIS 2012	Scott Johnson	University of California Los Angeles
	Robin Panneton	Virginia Tech

General Information

Exhibits & Poster Sessions

Exhibits and poster sessions are located in Minneapolis Grand Ballroom Salon D

Exhibit hours are as follows:

Thursday, June 7	8:00 AM - 7:00 PM
Friday, June 8	8:00 AM - 7:00 PM
Saturday, June 9	8:00 AM - 12:00 PM

Registration

The registration area will be open during the following hours:

Wednesday, June 6	1:00 PM - 7:00 PM
Thursday, June 7	7:30 AM - 6:30 PM
Friday, June 8	7:30 AM - 3:30 PM 6:00 PM - 7:00 PM
Saturday, June 9	7:30 AM - 1:30 PM

Speaker-Ready Room

Speaker-ready room hours are as follows:

Thursday, June 7	8:00 PM - 5:00 PM
Friday, June 8	8:00 AM - 3:30 PM
Saturday, June 9	8:00 AM - 1:30 PM

Membership Information

Please go to the ISIS website (www.isisweb.org) and click on "Information for Members". Membership includes subscription to the journal *Infancy* and reduced conference rates.

Regular Member:	\$60.00
Student Member:	\$40.00

Program Co-Chairs' Welcome

Welcome to the 18th International Conference on Infant Studies, the biennial meeting for the International Society on Infant Studies (<http://www.isisweb.org/>)! Our society is dedicated to developmental science, focusing on early processes and mechanisms responsible for the rich array of emerging skills and abilities during infancy and early toddlerhood. Our biennial meeting is a time and place for researchers, practitioners, educators, and policy advocates to commune in a productive way, sharing insights and new research findings related to areas of inquiry such as fetal programming, cognition, social attention, brain development, parent-infant relationships, and language learning. In planning ICIS 2012, our objective was to showcase the best current developmental science in a pleasant and enjoyable setting. In addition, we set three more targeted goals: (1) to highlight research focused on developmental plasticity, (2) to increase opportunities for oral presentations across the membership, and (3) to minimize timing conflicts between venues of similar content. In this spirit, we are pleased to welcome Takao Hensch from Harvard University as our plenary speaker – a leading expert in the development of brain plasticity. With the help of Chuck Nelson, Dante Cicchetti, Karen Adolph, and Liz Spelke, we have also planned three outstanding symposia dedicated to research leaders in the field, all of whom have addressed issues of plasticity in their own domains of work - Bill Greenough, Alan Sroufe, and Rachel Keen. We also re-instituted the submission option of a stand-alone paper (with a poster option if not accepted as a paper), and then charged each panel chair with the construction of a symposium from those stand-alone submissions of highest ranking. The result is 11 constructed symposia comprising 36 individual speakers – we hope new synergies and collaborations fall out from these collective talks.

We approached the scheduling of events mindful of the conflict that often results from so many presentations in such a short period of time. We tried hard to minimize the probability of too much similar content in any one time slot, hoping to increase your ease of scheduling those events of greatest interest to you. We also initiated the evening poster session, during which we encourage you to eat, drink, and socialize with enthusiasm!

There are a considerable number of individuals to thank with regard to the planning of ICIS 2012. First, we thank Dick Aslin (current ISIS president) for inviting us to co-chair the meeting. His insights and suggestions were invaluable to us. We thank Hailey Buck and Susan Lennon for their deft organizational skills and tactics with respect to the programming of events and managing the flow of communication during the planning phase. We thank all of our invited speakers, invited symposia chairs, panel review chairs, and panel reviewers for their expended time and effort in maximizing the quality of the program. We applaud Wally Dixon and his undergraduate review committee for their continued efforts to support and nurture our youngest contributors. Last, we sincerely thank all of our student volunteers for their efforts in completing some of the important yet often mundane tasks associated with running a conference.

Please be sure to join us for the Welcome Reception, following Takao Hensch's Plenary Address on Thursday evening, and, of course, the Presidential Reception following Dick Aslin's Presidential Address on Friday evening.

We sincerely hope you enjoy this conference!



Robin Panneton
Robin Panneton



Scott Johnson
Scott Johnson

2012 Review Panels

An enormous thank you to all of those who participated in the review process. The meeting could not happen without your support. An asterisk following a name indicates that the person served as the Alternate Chair for that panel.

Panel 1 – Prenatal Development and Epigenetics

Chair: Benoist Schaal

Reviewers: Karine Durand, Carolyn Granier-Deferre, Robert Lickliter, Bruno Patris, Nadja Reissland, Richard E. Tremblay.

Panel 2 – Motor and Sensorimotor Processes

Chair: Daniela Corbetta

Reviewers: Jean-Paul Boudreau, Renee Carrico, Laura Claxton, Rachel Keen, George Michel, Claes von Hofsten, David Witherington.

Panel 3 – Developmental Neuroscience

Chair: John Richards

Reviewers: Robert Almlı, Martha Ann Bell, Anna Blasi, Kristin Buss, Gergely Csibra, Kimberly Cuevas, Judit Gervain, Peter Marshall, Charles Nelson*, Greg Reynolds.

Panel 4 – Perception and Attention

Chair: Gustaf Gredebäck

Reviewers: Jean-Paul Boudreau, Erin Cannon, Moritz Daum, Terje Falck-Ytter, Christine Fawcett, Sabine Hunnius, Ben Kenward, Ulf Liszowski*, Vincent Reid, Lisa Scott, Kerstin Shutts.

Panel 5 – Communication and Language

Chair: Suzanne Curtin

Reviewers: Nameera Akhtar, Heather Bortfeld*, Krista Byers-Heinlein, Sarah C. Creel, Christopher Fennell, Rebecca Gomez, Susan Graham, Annette Henderson, Jana Iverson, Elizabeth Johnson, Nivedita Mani, Toben Mintz, James Morgan, Laura Namy, Kris Onishi, Rushen Shi, Athena Vouloumanos, Katherine White, Tania Zamuner.

Panel 6 – Memory and Learning

Chair: Mary Courage

Reviewers: Rachel Barr, Patricia Bauer, Petra Hauf, Jane Herbert, Kathleen Kannass, Susan Rose, Carolyn Rovee-Collier.

Panel 7 – Cognitive Development

Chair: Vladimir Sloutsky

Reviewers: Nadja Althaus, Catherine Best, Sara Cordes, Lisa Feigenson, Natasha Kirkham, Tamar Kushnir, David Rakison, Larissa Samuelson, Erik Thiessen, Laura Wagner, Teresa Wilcox*, Rachel Wu, Hanako Yoshida, Chen Yu.

Panel 8 – Social Development

Chair: David Haley

Reviewers: Heidi N. Bailey, Marc Bornstein, Amie Hane, Stephanie Hoehl, Ariel Knafo, Lili Ma, Gabriela Markova, Adriana Molitor, Sabina Pauen*, Rebecca Pillai Riddell, Michael Pluess, Vasu Reddy, Arlene Walker-Andrews.

Panel 9 – Emotional Development

Chair: Dale Stack

Reviewers: Kim Bard, Annie Bernier, Ann Bigelow*, Pamela Cole, Liz Davis, Hideko Hamada Bassett, Paul Hastings, Maria Hernandez-Reif, Hui-Chin Hsu, Lynne Koester*, Daniel Messinger, Rosario Montiroso, Réjean Tessier.

Panel 10 – High Risk and Pediatric Issues

Chair: Tonya Bergeson-Dana

Reviewers: Raymond Baillargeon, Brittan Barker, Marjorie Beeghly, Anjana Bhat, Sydney Hans, Julia Irwin, Peter Kaplan.

Panel 11 – Psychopathology & Developmental Delay

Chair: Susan Rivera

Reviewers: Lisa Berlin, Margaret Briggs-Gowan, Alice Carter, Kate Degnan, Ann Mastergeorge, Jane Roberts, Sally Rogers, Gaia Scerif, Sara Jane Webb, Greg Young.

Preconference and Special Events

Preconference Events

Realism to Relevance: An Ecological Approach to Perception, Action and Cognition A Festschrift Honoring the Scholarly and Mentoring Contributions of Herbert L. Pick, Jr.

Wednesday, June 6, 2012, 10:30am - 6:30pm
Hilton Minneapolis, Minneapolis Grand Ballroom Salon EF
Reception to follow in the Minneapolis Ballroom Foyer.
No registration required.

Workshop on Developmental Robotics

Wednesday, June 6, 2012, 1:00pm - 6:00pm
Hilton Minneapolis, Minneapolis Grand Ballroom Salon G
Registration: Attendance is free.
Please preregister by emailing Gaby Ehlgén (ehlgén@fias.uni-frankfurt.de) and include your name and email address. Information is available at <http://icdl-epirob.org/icisdevrob2012.html>.

Baby FACS Workshop

Wednesday, June 6, 2012, 2:00pm - 6:30pm
Hilton Minneapolis, Marquette Ballroom Salon V
Registration: \$100 - please preregister by emailing organizer Harriet Oster at harriet.oster@nyu.edu

EyeTracKids 2012 - Eye Tracking Methodology in Child and Infant Research

Wednesday, June 6, 2012
Hyatt Regency Minneapolis
1300 Nicollet Mall
Minneapolis, MN 55403, USA
Website: www.eyetrackkids.com

Course - Understanding Eye Tracking Systems Ecology and Behavior

Tuesday, June 5, 2012
Hyatt Regency Minneapolis
1300 Nicollet Mall
Minneapolis, MN 55403, USA
Website: <http://www.tobii.com/eye-tracking-research/global/services/training-events/understanding-eye-tracking-systems-ecology-and-behavior/>

Special Events – All Attendees Welcome!

ICIS Welcome Reception

Thursday, 6:00 pm - 7:30 pm
Minneapolis Foyer

ISIS Business Meeting and Awards Presentation

Friday, 4:45 pm - 5:15 pm
Minneapolis Grand Ballroom Salon ABC

Presidential Reception

Friday, 6:30 pm - 8:00 pm
Minneapolis Foyer

Invited Program

Plenary Speaker

Takao Hensch

Thursday, 4:45 pm - 5:45 pm
Minneapolis Grand Ballroom Salon ABC

Presidential Address

Infant Learning: Continuous, Incremental, and Progressive - or not?

Richard Aslin

Friday, 5:30 pm - 6:30 pm
Minneapolis Grand Ballroom Salon ABC

Invited Speakers

Emotional rescue: The effects of intervention on early psychosocial deprivation in the Bucharest Early Intervention Project

Nathan Fox

Thursday, 9:45 am - 10:45 am
Minneapolis Grand Ballroom Salon G

The poverty of the stimulus: Why early experience with language really matters

Anne Fernald

Thursday, 3:15 pm - 4:15 pm
Minneapolis Grand Ballroom Salon G

Development evolving: From innateness to epigenesis

Mark Blumberg

Friday, 9:45 am - 10:45 am
Minneapolis Grand Ballroom Salon G

Infancy: How Culture and Biology Meet

Heidi Keller

Friday, 3:15 pm - 4:15 pm
Minneapolis Grand Ballroom Salon G

What has the study of infants added to our understanding of how visual perception works?

Albert Yonas

Friday, 3:15 pm - 4:15 pm
Minneapolis Grand Ballroom Salon EF

Interdisciplinary approaches to studying risk in behavior and brain development: Early nutrition and brain development as a paradigm

Michael Georgieff

Saturday, 8:00 am - 9:00 am
Minneapolis Grand Ballroom Salon G

Towards a rational constructivist approach to cognitive development

Fei Xu

Saturday, 11:15 am - 12:15 pm
Minneapolis Grand Ballroom Salon G

Invited Program

Dedicated Symposia

Social and Emotional Influences on Early Development: A Symposium

Dedicated to L. Alan Sroufe

Thursday, 11:15 am - 12:30 pm

Minneapolis Grand Ballroom Salon ABC

Chair: *Dante Cicchetti*

- Relationships, Emotion, and the Organization of Socially Constructive Behavior
Ross Thompson
- From Research to Scholarship: Alan Sroufe as a Graduate Mentor, with an Empirical Example
Glenn Roisman
- Translating research on attachment in maltreated infants to preventive interventions
Dante Cicchetti

Plasticity and Epigenetic Influences in Development

(in honor of William Greenough)

Friday, 11:15 am - 12:30 pm

Minneapolis Grand Ballroom Salon ABC

Chair: *Charles A. Nelson*

- Epigenetic Consequences of Adverse Early Social Experiences in
Stephen Suomi
- Prefrontal plasticity and behavioral development
Bryan Kolb
- Experience-expectant remodeling of adult damaged brains.
Theresa Jones

Perceptual, Motor, Cognitive, and Social Development in Infants and Children

(in honor of Rachel Keen)

Saturday, 11:15 am - 12:30 pm

Minneapolis Grand Ballroom Salon ABC

Chairs: *Karen E. Adolph, Elizabeth Spelke*

Discussants: *Bennett I. Bertenthal, Richard Held*

- Tooling Around: The Development of Haptic-Based Actions in Young Children
Amy Joh
- Auditory Perception: From Infant Orienting to Room Acoustics
Daniel Ashmead
- From Spatial to Moral Compass in Development
Philippe Rochat
- Rachel Keen: Perception, Action, and Representation
Herbert Pick

Invited Program

Invited Symposia

Structural and Functional Neuroimaging in Infants

Thursday, 8:00 am - 9:15 am

Minneapolis Grand Ballroom Salon EF

Chair: *John Richards*

- Cortical source analysis of infant spatial cueing
John Richards
- Source Modeling of Infant Magnetoencephalography
Alexis Bosseler
- Imaging the emergence of cerebral specialisation for the human voice in infants using fNIRS and fMRI
Sarah Lloyd-Fox

Comparing monolingual and bilingual language acquisition during infancy

Thursday, 11:15 am - 12:30 pm

Minneapolis Grand Ballroom Salon EF

Chair: *Linda Polka*

- Bilingual infants' accommodation of accented speech
Tamara Hudon, Christopher Fennell
- Mechanisms underlying lexical processing in monolingual and bilingual toddlers
Katie Von Holzen, Nivedita Mani
- Towards a unified theoretical framework of early monolingual and bilingual acquisition
Krista Byers-Heinlein, Suzanne Curtin, Janet Werker

Memory and Cognitive Development: Social Contexts

Thursday, 1:30 pm - 2:45 pm

Minneapolis Grand Ballroom Salon EF

Chair: *Lisa Feigenson*

- Infant siblings of children with Autism Spectrum Disorder: working memory, facial recognition, and attention to partner social/nonsocial event cues
Julia Noland
- Visual short-term memory for objects is modulated by communicative reference
Gergely Csibra
- Perceptual Narrowing for Faces and Objects in Infancy: From Percepts to Concepts?
Lisa Scott

Developmental Origins: Long-Term Effects of the Fetal Environment

Friday, 8:00 am - 9:15 am

Minneapolis Grand Ballroom Salon EF

Chair: *John Colombo*

- Maternal High-fat Diet Consumption Suppresses Serotonergic System Signaling in Juvenile Nonhuman Primate Offspring Resulting in Persistent Changes in Behavior
Elinor Sullivan, A. Kostuba, K. Chamlou, L. Nousen, A. Davis, D. Takahashi, K. Grove
- Fetal Cardiac Autonomic Control during Breathing and Non-Breathing Epochs: The Effect of Maternal Exercise
Kathleen Gustafson
- Fetal exposure to stress and stress peptides programs human fetal, infant and child behavior
Curt Sandman

Invited Program

The Role of Comfort in Social Development: Biological and Cognitive Perspectives

Friday, 11:15 am - 12:30 pm

Minneapolis Grand Ballroom Salon EF

Chair: *Susan C. Johnson*

- Variation in the Oxytocin Receptor (OXTR) Gene Influences Attachment and Social Stress Regulation
Frances Chen
- The Development of Prosocial Behaviour: Infant's Responses to Instrumental Need, Emotional Distress, and Material Desire
Kristen Dunfield
- 8-month-olds Expect an Adult to Respond to a Crying but not to a Laughing Infant
Kyong-sun Jin, Jessica Houston, Renee Baillargeon, Glenn Roisman, Stephanie Sloane, Ashley Groh

Social Perception in Infancy: A Neuroscience Perspective

Friday, 1:30 pm - 2:45 pm

Minneapolis Grand Ballroom Salon EF

Chair: *Tobias Grossmann*

- Does the Infant Brain Distinguish between Animate and Inanimate Visual Categories?
Sabina Pauen, Sebastian Wahl, Stefanie Hoehl, Gert Westermann
- Human Action Perception during Infancy: A fNIRS Investigation
Sarah Lloyd-Fox
- The Influence of Race on the Development of Multimodal Emotion Processing
Lisa Scott
- Multisensory Perceptual Narrowing in the Infant Brain
Tobias Grossmann

Infants' Perception of Dialect and Accent

Saturday, 1:30 pm - 2:45 pm

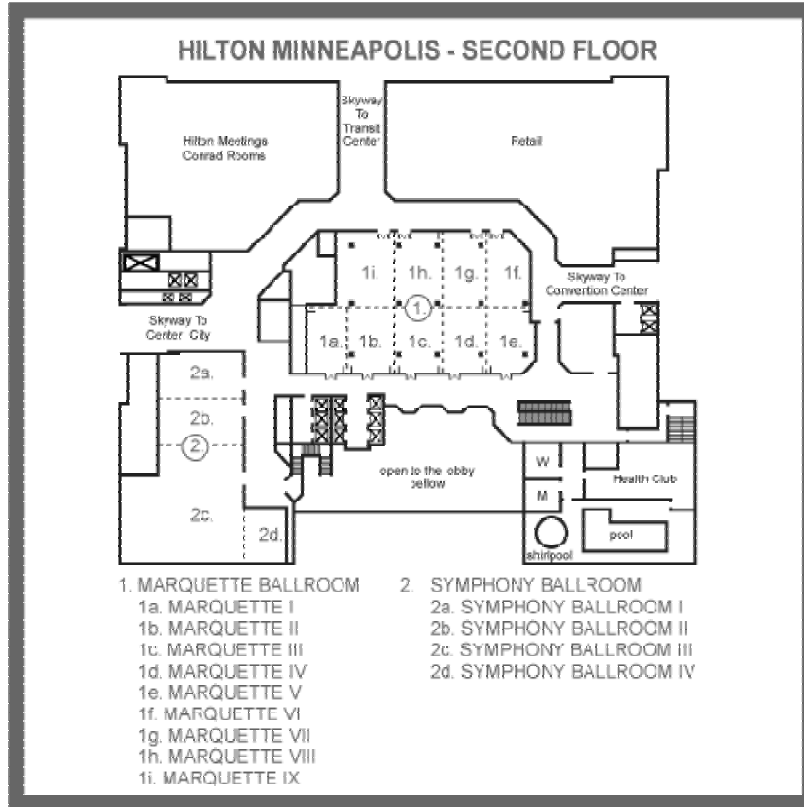
Minneapolis Grand Ballroom Salon G

Chair: *Thierry Nazzi*

Discussant: *Katherine White*

- Discrimination of Dialect-Based Vowel Variants in 7- to 36-month-olds
Jennifer Phan, Derek Houston
- Accent on language development: Using dialects to trace how children come to recognize spoken words
Christine Kitamura, Catherine Best
- Input matters: Speed of word recognition in toddlers receiving regular exposure to accented speech
Elizabeth Johnson, Sara Oczak
- Exposure to Variability Supports Early Accommodation of Non-Native Pronunciations
Rachel Schmale, Alejandrina Cristia, Amanda Seidl

Hilton Minneapolis Floors 2 & 3



Exhibitors

Electrical Geodesics, Inc. (EGI)

Booth # 14

1600 Millrace Drive, Suite 307
Eugene, OR 97403 USA
Tel: 541-687-7962 Fax: 541-687-7963
Website: www.egi.com

EGI offers complete EEG/ERP systems with Sensor Nets designed for fast and painless application. Configurations range from 32 to 256 channels, providing whole-head coverage for neonates to adults (13 sizes).

Lena Foundation

Booth # 3

5525 Central Avenue, Suite 100
Boulder, CO 80301 USA
Tel: 877-545-9696 Fax: 303-545-2166
Website: www.lenafoundation.org

The LENA Pro System was specifically designed for researchers, speech language pathologists, audiologists, and pediatricians. LENA allows you to easily collect, process, and analyze language environment and development data for children ages 2 to 48 months, including measurements like the number of words spoken to a child, conversational turns and child vocalizations.

Mangold International

Booths # 15 & 16

Graf-von-Deym Str. 5
D-94424 Arnstorf GERMANY
Tel.: +49 (0)8723 / 978 – 330
Fax: +49 (0)8723 / 978-333
Website: www.mangold-international.com

Mangold International is a world leading provider of stationary and portable labs for observational studies. Mangold products allow researchers to quickly perform their studies using live observation, video based analysis, eye tracking, physiological data analysis and more.

Noldus Information Technology

Booth # 13

1503 Edwards Ferry Road, Suite 201
Leesburg, Virginia 20176 USA
Tel: 703-771-0440 Fax: 703-771-0441
Website: www.noldus.com

Noldus, creator of The Observer XT (the advanced logging tool for the collection and analysis of observational data) offers a wide variety of solutions for the observation, visualization, and analysis of infant behavior.

Tobii Technology, Inc.

Booth # 11

510 North Washington Street, Suite 200
Falls Church, VA 22046 USA
Tel: 703- 738-1317 Fax: 703 -738-1300
Website: www.tobii.com

Tobii Technology is the world leader in eye tracking and eye control services and innovation. With Tobii, researchers have powerful tools to evaluate user behavior objectively and Tobii products are widely used in developmental psychology, human - computer interaction, industrial design, cognitive psychology, ophthalmology, neurophysiology, reading studies, and primate research.

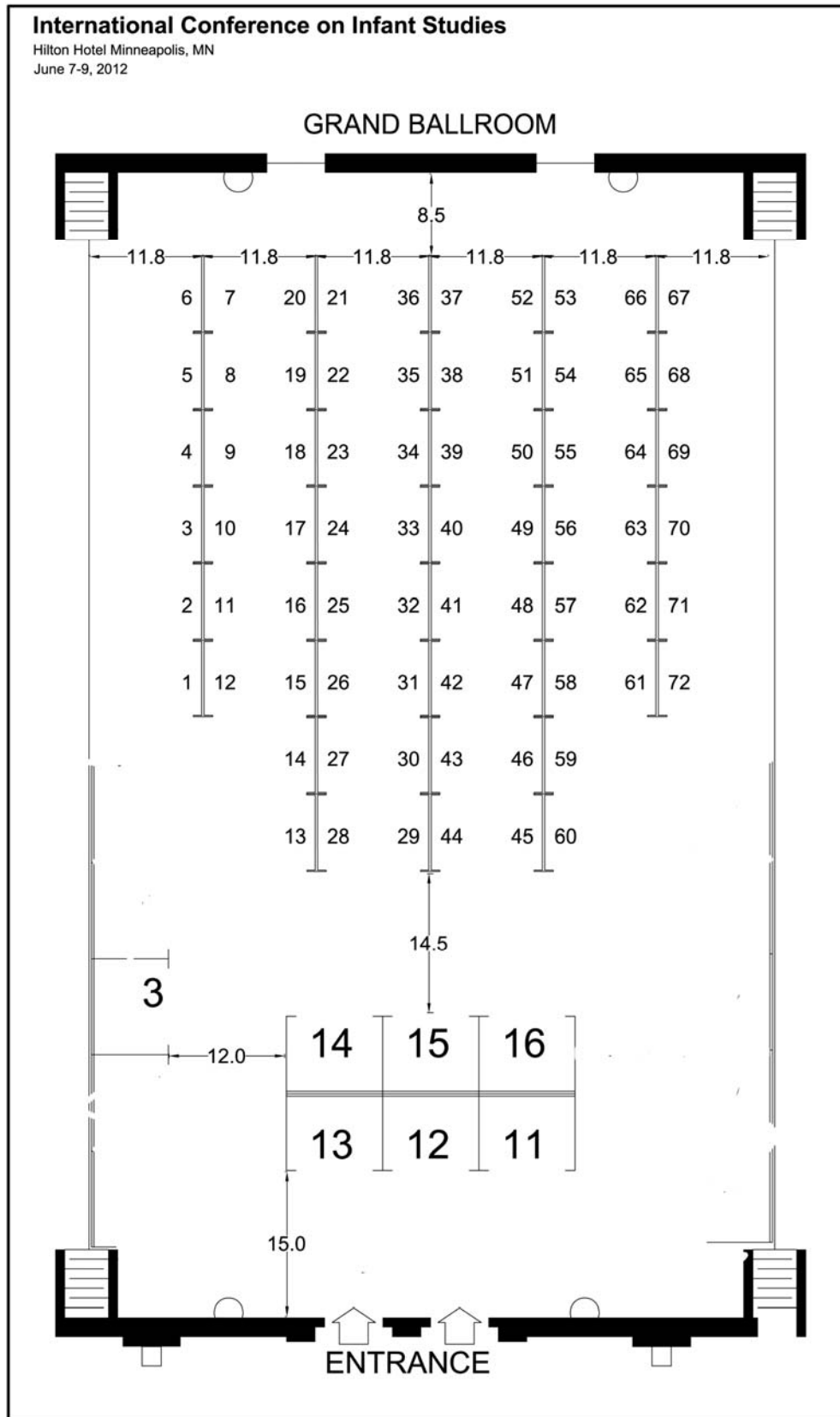
Wiley-Blackwell

Booth # 12

350 Main Street
Malden, MA 02148
Tel: 781-388-8544 Fax: 781-338-8544
Website: www.wiley.com

Wiley-Blackwell is the international scientific, technical, medical and scholarly publishing business of John Wiley & Sons, with strengths in every major academic and professional field and partnerships with many of the world's leading societies.

Exhibit Hall Detail: Poster Boards and Exhibits



Thursday, 8:00 am - 9:30 am

(Event 1-001) Paper Symposium

Marquette Ballroom Salon IV
Thursday, 8:00 am - 9:30 am

Bottom-Up and Top-Down Approaches to Learning in Social Contexts

Chair: Michael H. Goldstein

- Socially Guided Statistical Learning From Biological and Nonbiological Interaction Partners
Michael Goldstein, Jennifer Schwade, Rachel Elkin
- Indexing how Knowledge Shapes Action Processing
Dare Baldwin
- A Bottom-Up Sensorimotor Solution to Word-Referent Learning by Toddlers
Chen Yu, Linda Smith
- Infants' Learning From Others: Effects of Direct Engagement and Social Group Status
Amanda Woodward, Lauren Howard, Laura Shneidman

(Event 1-002) Paper Symposium

Marquette Ballroom Salon VII
Thursday, 8:00 am - 9:30 am

Caregiver Management of Infant Acute Pain-Related Distress: What Works and What Doesn't

Chair: Rebecca Pillai Riddell

- The Paradoxical Role of Verbal Reassurance During Infant Pain: Does Emotional Availability Help Moderate the Deleterious Impact?
Nicole Racine, Rebecca Pillai Riddell, David Flora, Hartley Garfield, Saul Greenberg
- Understanding the Relationship between Emotional Availability and Infant Pain-Related Distress over the First Year of Life.
Lauren Campbell, Rebecca Pillai Riddell, David Flora, Nicole Racine, Laila Din Osmun, Hartley Garfield, Saul Greenberg
- What works: A Meta-Analysis of effective strategies caregivers can use to manage pain-related distress across infancy.
Rachel Horton, Rebecca Pillai Riddell, Nicole Racine, Kara Turcotte, Lindsay Uman, Sara Ahola, Laila Din Osmun, Jessica Hillgrove Stuart, Bonnie Stevens, Alanna Gerwitz-Stern

(Event 1-003) Paper Symposium

Marquette Ballroom Salon III
Thursday, 8:00 am - 9:30 am

Developmental origins of human behaviour in the perinatal period

Chair: Barbara S. Kisilevsky

- Can we identify a "pain-face" in the fetus: an analysis of fetal facial movements
Nadja Reissland, Brian Francis, James Mason, Karen Lincoln
- Fetal mouth opening in relation to proprioceptive and exteroceptive stimuli
Hideko Takeshita, Masako Myowa-Yamakoshi, Yuu Mizuno
- A Longitudinal Description of the Fetal and Early Newborn's Cardiac Response to Speech
Charlene Krueger
- Early Sensory Cognitive Processes in Two-month-olds Exposed to High vs Low Prenatal Maternal Anxiety: An Auditory ERP Study
Renée Otte, Marijke Braeken, István Winkler, Bea van den Bergh

(Event 1-004) Paper Symposium

Marquette Ballroom Salon VI
Thursday, 8:00 am - 9:30 am

Mechanisms for Change: Building Tool Use and Problem Solving

Chair: Jeffrey J. Lockman

- Continuity in ontogeny of tool use
Björn Kahrs, Wendy Jung, Jeffrey Lockman
- The emergence of tool use
Jacqueline Fagard, Lauriane Rat-Fischer, Anne-Yvonne Jacquet, Kevin O'Regan
- Modelling the Mechanisms Underlying the Development of Infant Tool Use
Frank Guerin, John Alexander, Severin Fichtl
- Predicting other people's actions in tower building is related to one's own tower building skills.
Ida Tidemann, Kerstin Rosander, Claes von Hofsten

Thursday

(Event 1-005) Paper Symposium

Marquette Ballroom Salon VIII
Thursday, 8:00 am - 9:30 am

New directions in morphosyntactic dependency research: Liaison, implicit markers, and crosslinguistic comparisons

Chair: Melanie Soderstrom

- Evolving sensitivity to French prefixal subject-verb agreement
Jennifer Culbertson, Geraldine Legendre, Nayeli Gonzalez Gomez, Thierry Nazzi
- Knowledge of determiners and its effect on noun processing in French-learning infants
Mireille Babineau, Rushen Shi
- Revisiting the is-ing/can-__ Dependencies: Implicit dependencies and the importance of stimulus characteristics
Melanie Soderstrom, Joanna Bhaskaran
- Sensitivity to subject-verb agreement in German learning infants
Barbara Höhle, Vanessa Kutscher, Claudia Lekow, Caroline Schröder, Melanie Soderstrom

(Event 1-006) Paper Symposium

Marquette Ballroom Salon IX
Thursday, 8:00 am - 9:30 am

New lines of research on event categories: Event representation and processing in infancy and beyond

Chair: Audrey Kittredge

- Converging Evidence for Event Categories: Characterizing the Representational Boundaries
Susan Hesplos
- Facilitating 5-month-olds' change detection through improved retrieval of information
Su-hua Wang, Kris Onishi
- Infants see past perceptual differences to detect a change in event category
Audrey Kittredge, Renee Baillargeon
- Triggering "Event Types" in Visual Cognition: Containment, Occlusion and the Visual Cues that Separate Them
Brent Strickland, Brian Scholl

(Event 1-007) Paper Symposium

Marquette Ballroom Salon V
Thursday, 8:00 am - 9:30 am

Relational memory in infancy: What kind and how strong?

Chair: Nora Newcombe

- Spatial relational memory during infancy: An eye-tracking study
Jenny Richmond, Jessica French-Child
- Flexible learning of multiple categories in infancy
Vladimir Sloutsky, Christopher Robinson
- Assessing relational memory across the first 6 years: What does eye-tracking tell us?
Jessica Koski, Nora Newcombe, Ingrid Olson
- Relating binding in infancy to current work on adults and the elderly
Wilma Koutstaal

Thursday, 8:00 am - 9:15 am

(Event 1-008) Invited Symposium

Minneapolis Grand Ballroom Salon EF
Thursday, 8:00 am - 9:15 am

Structural and Functional Neuroimaging in Infants

Chair: John Richards, University of South Carolina

- Cortical source analysis of infant spatial cueing
John Richards
- Source Modeling of Infant Magnetoencephalography
Alexis Bosseler, University of Helsinki
- Imaging the emergence of cerebral specialisation for the human voice in infants using fNIRS and fMRI
Sarah Lloyd-Fox, University of London

Abstract. Theories of infant cognitive development use brain development as an explanatory mechanism for developmental change. However, measures of neural activity are often limited to external indicators (e.g., EEG) or behavioral markers (e.g., reaction time, fixation duration). Recent developments in equipment, procedures, and quantitative methods has allowed the direct measurement of brain activity in infant participants during cognitive tasks. These developments allow the identification of structure (location, developmental status) and function (blood flow,

Thursday

electromagnetic activity of neurons) in the brain and the study of the relation of these structure/function to cognitive tasks. This symposium has three speakers. First, Richards will describe the use of structural MRIs from average templates or individual participants in the study of cortical sources of event-related-potentials occurring in covert orienting and attention. Bosseler and colleagues present information about magnetoencephalography in the study of language. Lloyd-Fox, Blasi, and colleagues use structural MRI, functional MRI, and NIRS to localize the brain areas that show cerebral lateralization for processing of human voices.

Thursday, 9:30 am - 11:00 am

(Event 1-009) Poster Session 1

Minneapolis Grand Ballroom Salon D

Thursday, 9:30 am - 11:00 am

Action perception:

- 1 Preverbal Human Infants Fast-map Fronts of Novel Agents and Use Them for Action Anticipation
Mikolaj Hernik, Pasco Fearon
- 2 Children's Perception of Goal-Directed Actions: Post-hoc vs. Online Measures
Manja Attig, Ivanina Henrichs, Birgit Elsner, Moritz Daum

Intersensory perception:

- 3 Intersensory Redundancy Facilitates Infant Discrimination of the Tempo of Speech
Lorraine Bahrick, Sheila Krogh-Jespersen, James Todd, Catherine Naclerio, Yessenia Lau
- 4 Olfactory-Visual interaction in infancy: Do (un)familiar odors influence how 4-month-old infants look at familiar and novel faces?
Karine Durand, Benoist Schaal, Nathalie Goubet, David Lewkowicz, Jean-Yves Baudouin
- 5 Do infants know where their hands are? Lessons from behavioural and ERP responses to tactile stimuli
Andrew Bremner, Silvia Rigato, José van Velzen

Social cognition:

- 6 What guides infants' attention? The role of social and non-social cues for object processing
Sebastian Wahl, Christine Michel, Sabina Pauen, Stefanie Hoehl
- 7 Follow me: Brain responses reveal young infants' sensitivity to when a social partner follows their gaze
Tobias Grossmann, Sarah Lloyd-Fox, Mark Johnson
- 8 Theory and Method in the Study of Infant Social Cognition: A Developmental Perspective
Jaime Dice, Meghan Dove

Face processing/perception:

- 9 Is the Head Necessary to Process Body Information in Infancy?
Nicole Zieber, Ashley Kangas, Ramesh Bhatt
- 10 Infant Preferences for Upright Faces are Driven More by High, Than Low, Spatial Frequencies
Karen Dobkins, Vanitha Sampath

Language:

- 11 The Impact of Multiple Instances of Children's Singular and Plural Productions
Caitlin Gurlt, Jennifer Zapf, Lisa Cantrell
- 12 Stem Learning: Infants Segment the Morpheme /ing/ to Identify a Novel Word
Sujeet Ranganathan, Aimee Stahl, Rushen Shi, Roberta Golinkoff, Kathy Hirsh-Pasek
- 13 Maternal Interactive Strategies During Shared Book-reading: The Difference Between Mothers of Three Educational Levels
Wenjuan Qin, Shixin Fang, Vanessa Fong, Hirokazu Yoshikawa, Xinyin Chen, Niobe Way, Zuhong Lu, Huihua Deng

Thursday

14 How Close Is Too Close: Infants' Sensitivity to Degree of Difference in Phonological Form
Tanya Kaefer, Ashley Pinkham, Susan Neuman

15 Can Bidialectal Children Tell That a gat is not a cat? Mispronunciation Effects in 20-month-old Mono- and Bidialectal Toddlers
Samantha Durrant, Claire Delle Luche, Hester Duffy, Rafalla Farag, Caroline Floccia

Morphology:

16 Early Sensitivity to Inflectional Morphology
Helen Buckler, Paula Fikkert

Mother-child relations:

17 Relationship between Mother-Infant Responsiveness and Language/ Cognitive Development of Preterm Infants at Six Weeks Corrected Age
Rosemary White-Traut, Katie Reinecke, Kristin Rankin, Kathleen Norr

18 Parenting Antecedents of Parent-Infant Shared Reading Quality in a Low-Income Sample: A Pilot Study
Casey Dexter, Ann Stacks, Angela Vila, Samantha Singer, Mike Burke

Parent-child communication:

19 Maternal mind-mindedness predicts maternal mental state language: Findings from a longitudinal study
Susanne Kristen, Maria Licata, Claudia Thoermer, Hannah Perst, Beate Sodian

20 Muted motherese: Do infants prefer infant-directed speech in silent videos?
Nicholas Smith, Rachel Meisinger, Colleen Gibilisco

Reference:

21 18-month-olds' attention to objects is primed by points to empty places.
Ulf Liszkowski, Veronica c mrs Ramenzoni

Imitation:

22 Infants' observational learning through 'ghost' conditions: The roles of teleological representation and affordance learning
Chi-Tai Huang, Wan-Ting Chao, Shi-Bing Huang

23 Overcoming obstacles: Observational learning helps infants solve an action problem
Berta Summers, Amy Joh

24 From Rational Emulation to Overimitation: Insights into the Development of High-Fidelity (Over-) Imitation
Francys Subiaul

Joint attention:

25 Conflicting social cues in early word learning
Markus Paulus, Paula Fikkert

Learning:

26 Comparing learning processes across the lifespan
Maartje Raijmakers, Dorothy Mandell, Ingmar Visser

27 Infant Learning is Associated With Mother-Infant Interactional Patterns
Gin Morgan, Ashley O'Hearn, Laura Thompson

28 Toddlers' Processing of Familiar and Novel Video Characters: An Eye Movement Study
Heather Kirkorian, Katherine Hanson, Heather Lavigne, Lindsay Demers, Alexis Lauricella, Alice Ann Howard Gola, Daniel Anderson, Sandra Calvert

Television:

29 My Baby Learned it from TV! : Using Baby Signs as an Experimental Approach
Shoshana Dayanim, Laura Namy

Long-term memory:

30 Feature Processing and Illusory Conjunctions in Infants' Long-Term Memory
Scott Adler, Rachita Saini

Thursday

Media:

- 31 The Effect of Instructions on Imitation from Live and Video Demonstrations
Kelly Dickerson, Emily Oot, Qianwen Yao, Rachel Barr, Peter Gerhardstein

Memory:

- 32 Recalling "Make-a-Gong": What's so Special about Target Action #4?
Joseph Tucciarone, Wallace Dixon, Alissa Fleahman

Action perception:

- 33 I got it! 7- and 9-month-old Infants Understand that Actions can Cause Distal Effects
Petra Hauf
- 34 The Effects and Breadth of Untrained, Trained, and Observed Actions on 3-month-old Infants' Action Understanding
Sarah Gerson, Amanda Woodward

Animacy:

- 35 GOAL ATTRIBUTION TO POINT-LIGHT BIOLOGICAL MOTION BETWEEN 4 AND 6 MONTHS OF AGE
Anne Schlotzmann, Evelyn Bertin, Frank Pollick, Ursula Haerri, Lukasz Piwek, Friedrich Wilkening

Attention:

- 36 Relations between executive functioning, endogenous attention, and a global assessment in toddlers born preterm and toddlers born fullterm
Nancy Wyss, Kathleen Kannass
- 37 Attentional Shifting in a Conflict Task and its Relation to Temperament in Toddlers
Marina Olmos, Ana Valero-Garcia, Jose Carranza, Manuel Ato

Biological motion:

- 38 Biological motion facilitates 10-and-12-month-olds' basic and superordinate level categorization
Kristyn Wright, Diane Poulin-Dubois

Categorization:

- 39 The role of linguistic information in correlation-based category detection: a developmental perspective
Alison Greuel, Janet Werker
- 40 The Role of Supervision in Infants' Category Learning
Hyungwook Yim, Catherine Best, Vladimir Sloutsky
- 41 What You See Is What You Get: Eye-tracking During Infants' Category Learning Reveals a Relationship Between Overt Attention and Category Boundary
Nadja Althaus, Kim Plunkett

Cognition:

- 42 Does Early Language Acquisition Predict Giftedness in Elementary School Children?
Barbara Louis, Michael Lewis
- 43 Connecting the dots: Role of language in the detection of visual feature correlations in infancy
Padmapriya Kandhadai, Janet Werker
- 44 Infants' learning from picture books: The effect of naming on infants' transfer of nonobvious properties
Melanie Khu, Susan Graham, Jeany Keates, Patricia Ganea

Individual differences:

- 45 Correlates of Individual Differences in Temper Tantrums
Lauren Broder, Kristen Elliot, James Green, Michael Potegal

Thursday

Inhibitory control:

- 46 Self-regulation as a mediator of association between parenting and children's compliance/noncompliance
Joo Hyun Kim, Kathy Stansbury

Intersubjectivity:

- 47 Infant-Directed Action (IDA) as Intersubjective Communication: The Events Created by Movements of IDA and Infants' Understanding of Maternal Intentions
Shigeru Nakano, Emi Noro

Intervention:

- 48 Attachment and Indiscriminate Friendliness Among Adopted Children Exposed to a Social-Emotional Intervention in an Institution
Megan Julian, Robert McCall

Joint attention:

- 49 Precursors to Joint Attention: Linking Infants' Early Visual Attention and Social Positive Engagement to Later Joint Attention
Brenda Salley, Stephen Sheinkopf, A. Rebecca Neal-Beevers, Barry Lester, Charles Bauer, Seetha Shankaran, Henrietta Bada, Toni Whitaker, Linda LaGasse, Jane Hammond
- 50 The Development of Referential Gaze-following and Perspective-taking from 14 to 18 Months
R. Joanne Jao, Gedeon Deák
- 51 The Development of Point Following in Infants: The Relation Between Infant Gaze to Pointing Gesture and Infant Gaze to Point Direction
Tyler Wereha, Max Bibok, Timothy Racine

Maternal responsiveness:

- 52 Maternal Responsiveness: Impact on Infant Feeding Regulation and Childhood Obesity
Mildred Horodynski, Lisa Singleterry

- 53 Mother-Infant Contingent Responding in Infancy in Relation to Child Functioning at 10 Years of Age in Families Created by Adoption and Birth
Joan Suwalsky, Yoonjung Park, Linda Cote, Marc Bornstein

- 54 The Relationship between Early Maternal Responsiveness to Infant Nighttime Distress and Attachment
Gail Mayer, Hye-Young Rhee, Mina Shimizu, Douglas Teti

Attention:

- 55 Physiological Responses during a Focused Attention Task in a Sample of Cigarette-Exposed Infants
Pamela Schuetze, Nicole Maiorana, Rina Eiden, Teresa Gray, Marilyn Huestis

Biological factors:

- 56 Intestinal Microbiota and the Development of Infant Colic
Carolina de Weerth, Susana Fuentes, Willem de Vos

Child care:

- 57 Empathy and Distress in Response to Infant Crying
Hung-Chu Lin, Hannah Carriere

Child maltreatment/abuse:

- 58 Infants' Cries as a Predictor of Emotion Regulation Difficulty, Perceived Stress, Well-being and Distress Tolerance.
Beth Russell

Context(s):

- 59 Comparing the Alberta Infant Motor Scale percentile ranks with Brazilian infants percentile curves
Ana paula Gontijo, Miriam Guerra, Livia Magalhães

Developmental disorders:

- 60 Longitudinal Patterns of Development in Late Preterm Infants and Toddlers as Measured by the Ages and Stages Questionnaires
Karen Benzies, Joyce Magill-Evans, Jana Kurilova, Hilary Rancourt
- 61 Prenatal Methadone Exposure and Association with Strabismus
Deborah Morrison, Beth Logan, Nicole Heller, Hira Shrestha, Marie Hayes

Early experience:

- 62 The Relationship Between Birth Weight and Executive Function Development in Children Born Appropriate for Gestational Age
Amanda Hodel, Jane Brumbaugh, Kathleen Thomas

Family environment:

- 63 Assessing Chaos in Families With Infants: An Observational Approach for Capturing Family Chaos in the Home
Corey Whitesell, Douglas Teti

Feeding/feeding problems:

- 64 Infant Feeding Style, Cortisol Metabolism and Weight-Gain in the First 6-months of Life
Samantha Rogers, Jeremy Tomlinson, Beverly Hughes, Jackie Blissett
- 65 Breastfeeding, Maternal Feeding Attitudes and Practices and Infant Weight
Jackie Blissett, Samantha Rogers
- 66 Factors that Contribute to Infant Overfeeding in Latina Mothers
Diana Cartagena, Jacqueline McGrath

Thursday, 9:45 am - 10:45 am

(Event 1-011) Invited Speaker

Minneapolis Grand Ballroom Salon G
Thursday, 9:45 am - 10:45 am

Emotional rescue: The effects of intervention on early psychosocial deprivation in the Bucharest Early Intervention Project

Chair: Martha Ann Bell, Virginia Tech

Speaker: Nathan Fox, University of Maryland

Abstract. For the past twelve years I have been involved in a study of the effects of early psychosocial deprivation on infant brain and behavior development. The context of this research is Bucharest Romania and the subjects of the study are infants who were abandoned either at birth or soon thereafter and placed into institutions. We screened a large population of these infants and identified a sample of 136 who had no genetic anomalies or apparent motor or sensory deficits and assessed them with a battery of measures while they still lived in the institution. Subsequent to that, we randomized half to be taken out of the institutions and placed into families living in Bucharest while the other half remained in their institutions, in care as usual. We have followed both of these groups of children prospectively, seeing them at 30, 42, and 54 months, and most recently at 8 years of age. Among the assessments we performed were measures of brain electrical activity (EEG), structural MRI, and assessments of attachment and social relationships. We have also examined genetic and epigenetic measures as a function of deprivation and intervention. I will provide an overview of this work and will emphasize those domains that appear to respond to intervention and those that are less plastic. Among the domains that appear critical for later adaptive social behavior is the quality of the child's relationship with their caregiver. I will discuss the importance of this work for the placement of young children into family settings who are orphaned or abandoned around the world.

Biography. Nathan A. Fox is Distinguished University Professor in the Department of Human Development at the University of Maryland College Park. He has completed research on the biological bases of social and emotional behavior developing methods for assessing brain activity in infants and young children during tasks designed to elicit a



range of emotions. His work is funded by the National Institutes of Health where he was awarded a MERIT award for excellence of his research program examining social and emotional development of young children. He is one of three Principal Investigators on the Bucharest Early Intervention Project (BEIP) which is currently funded by

NIMH. Nathan has served as Associate Editor of the journals *Developmental Psychology* and *Psychophysiology* and as Editor of the journal *Infant Behavior and Development*. He is currently Associate Editor of the *International Journal of Behavioral Development*. He is past President of International Society of Infant Studies (1988-1990) and Division 7 of APA (2002-2004) and a Fellow of APS and the American Association for the Advancement of Science. He was awarded the Distinguished Scientific Investigator from the National Association for Research in Schizophrenia and Depression (NARSAD). Nathan was co-chair of the program for ICIS in 1988 and again in 2010.

Thursday, 9:45 am - 11:00 am

(Event 1-010) Constructed Paper Symposium

Marquette Ballroom Salon VI
Thursday, 9:45 am - 11:00 am

Discovering syntax

Chair: Christopher Fennell, University of Ottawa

- Experience-driven constraints on statistical learning
Luca Onnis, Erik Thiessen
- 8-Month-old French Infants' Acquisition of the Word Order of Their Native Language
Carline Bernard, Judit Gervain
- The Trans-Linguistic Robustness of Prosodic Cues in Syntax Acquisition
Kara Hawthorne, LouAnn Gerken, Reiko Mazuka

Thursday

(Event 1-012) Constructed Paper Symposium

Marquette Ballroom Salon VII
Thursday, 9:45 am - 11:00 am

Experience influences infants' perception of voices and dialects

Chair: Krista Byers-Heinlein, Concordia University

- Differentiating Individuals by their Voices: The Effects of Exposure on Infants' Perception of Voices from their Own Culture and a Foreign Species
Rayna Friendly, Drew Rendall, Laurel Trainor
- Flexibility in Toddler's Perception of a Disappearing Phonological Contrast
Suzanne van der Feest, Elizabeth Johnson
- Young toddlers recognize non-native Jamaican-accented words differing only in "category-goodness" from native-accent pronunciations
Catherine Best, Christine Kitamura, Michelle Pal, Anne Dwyer
- Speaker Adaptation in 15-month-old Infants: Is Lexical Access Necessary?
Marieke van Heugten, Elizabeth Johnson

(Event 1-013) Constructed Paper Symposium

Marquette Ballroom Salon VIII
Thursday, 9:45 am - 11:00 am

Goals, beliefs, and causality

Chair: Valerie A. Kuhlmeier, Queen's University

- Showing prior information about the experimenter's goal enables 16-month-olds to imitate a novel tool use action
Rana Esseily, Lauriane Rat-Fischer, Kevin O'Regan, Jacqueline Fagard
- Where infants dwell: Breakpoints, causal violation, and the more social the better
Kara Sage, Dare Baldwin
- Fourteen-Month-Olds Imitate Rationally Based on the Demonstrator's Knowledge State
David Buttelmann, Malinda Carpenter, Michael Tomasello

(Event 1-014) Constructed Paper Symposium

Marquette Ballroom Salon IV
Thursday, 9:45 am - 11:00 am

Mind the saliency! Infants scanning patterns and attrition rates highlight the importance of low-level stimulus properties

Chair: Klaus Libertus, Johns Hopkins University

- Assessing infants' spontaneous looking behavior during naturalistic, dynamic scene viewing.
Samuel Wass, Tim Smith, Mark Johnson
- Baby as the Beholder: Infants Share Adult Preferences for Original over Altered Abstract Art
Ursula Krentz
- Investigating the Factors Underlying Attrition Rates in Infant ERP-Studies - A Meta-Analysis
Manuela Stets, Daniel Stahl, Vincent Reid

(Event 1-015) Constructed Paper Symposium

Marquette Ballroom Salon III
Thursday, 9:45 am - 11:00 am

Risk factors for caregiver-infant interactions and their effects on infant development

Chair: Jennifer Wagner, Children's Hospital Boston

- Conduct problems and depression as developmental predictors of postpartum adjustment and parenting in adolescents
Alison Hipwell, Stephanie Stepp, Amy Hoffmann, Amanda Allen, Kathryn Keenan
- Developmental Changes in Mother-Toddler Mutual Regulation in a Very Preterm Sample during the Second and Third Years of Life
Marjorie Beeghly, M Susan Delonis, Jessica Irwin, Tamara Kadoo, Joseph Evens, Danielle Murdock, Aqsa Pervez, Makieh Kaakarli, Chelsea Frank, Lauren Rossi
- Preterm Birth, Parenting, and Associated Cognitive and Social-Emotional Outcomes: A Two-Group Comparison
Angela Maupin, Jodene Fine

(Event 1-016) Constructed Paper Symposium

Marquette Ballroom Salon V
Thursday, 9:45 am - 11:00 am

The Infant Social Mind: Constrained Yet Flexible

Chair: J Kiley Hamlin, University of British Columbia

- Sociology is child's play: Conceptual representations of social relations in human infants
Olivier Mascaró, Gergely Csibra
- Coalitional psychology in the crib: Group size impacts social evaluation at 7 months and decisions to impose costs or confer benefits at 21 months.
David Pietraszewski, Karen Wynn
- From Right to Wrong: The Flexibility of Toddlers' Action Imitation
Elena Hoicka, Elena Sakkalou, Katharina Abel, Rebecca Sperotto, Merideth Gattis

Thursday, 11:15 am - 12:30 pm

(Event 1-017) Invited Symposium

Minneapolis Grand Ballroom Salon EF
Thursday, 11:15 am - 12:30 pm

Comparing monolingual and bilingual language acquisition during infancy

Chair: Linda Polka, McGill University

- Bilingual infants' accommodation of accented speech
Tamara Hudon¹, Christopher Fennell¹
¹University of Ottawa
- Mechanisms underlying lexical processing in monolingual and bilingual toddlers
Katie Von Holzen¹, Nivedita Mani¹
¹Universität Göttingen
- Towards a unified theoretical framework of early monolingual and bilingual acquisition
Krista Byers-Heinlein¹, Suzanne Curtin², Janet Werker³
¹ Concordia University; ² University of Calgary; ³ University of British Columbia

Abstract. Infants growing up in monolingual families and communities have been the conventional focus of infant speech and language research for decades. However, studies that target infants developing in a bilingual context and compare them to their

monolingual peers are rapidly increasing. These comparisons challenge us to assess, refine, and expand existing conceptual views of early speech and language development and bring new insights to bilingual acquisition itself. The papers in this symposium report some achievements on both fronts providing fresh empirical findings with respect to perceptual and lexical processing in bilingual infants and introducing a theoretical framework to accommodate both forms of acquisition.

(Event 1-018) Dedicated Symposium

Minneapolis Grand Ballroom Salon ABC
Thursday, 11:15 am - 12:30 pm

Social and Emotional Influences on Early Development: A Symposium Dedicated to L. Alan Sroufe

Chair: Dante Cicchetti, Institute of Child Development, University of Minnesota

- Relationships, Emotion, and the Organization of Socially Constructive Behavior
Ross Thompson, University of California, Davis
- From Research to Scholarship: Alan Sroufe as a Graduate Mentor, with an Empirical Example
Glenn Roisman, University of Illinois at Urbana-Champaign
- Translating research on attachment in maltreated infants to preventive interventions
Dante Cicchetti



Abstract: Alan Sroufe has made monumental contributions to the fields of developmental psychology and developmental psychopathology. One of the groundbreaking aspects of Sroufe's work has been his longitudinal research demonstrating the importance of early socioemotional development on later

adaptation. This work has been conducted with normative and high-risk populations in keeping with Sroufe's belief that the study of normality and psychopathology are mutually influential. Accordingly, papers in this symposium address early socioemotional development through an examination of normative, high-risk, and maltreated populations. Ross Thompson discusses his programmatic research on early emotional development and its links to functioning in both

Thursday

concurrent and subsequent developmental domains. Thompson's work underscores that emotion is a salient motivator of positive social behavior, especially in the context of secure attachments. Glenn Roisman, a former advisee of Sroufe, presents his cutting-edge research on earned-secure attachment – defined as the ability to achieve secure attachment organization despite the experience of significant early adversity. Roisman critically examines the concept of earned secure attachment and contributes to advances in our understanding of this construct. Finally, Dante Cicchetti, one of Sroufe's early Ph.D.'s, presents translational work on child maltreatment, demonstrating that maltreated infants predominantly form insecure and disorganized attachment. The results of a randomized control trial intervention (RCT), informed by attachment theory, reveal that insecure and disorganized attachments in maltreated infants can be successfully modified. Consistent with Cicchetti's multiple-levels-of-analysis approach, biological measures were included as part of the intervention evaluation. Genes associated with attachment were not found to be related to intervention outcome; however, neuroendocrine regulation was normalized across the course of the intervention. Results are discussed as supporting the view that developmental plasticity of attachment can be attained in maltreated children. Much of the work on this symposium was influenced by Sroufe's organizational perspective on development, a highly influential theoretical framework for the study of typical and atypical development. It is fitting that this symposium honors the seminal contributions that Sroufe, a giant in the fields of both developmental psychology and developmental psychopathology, has made to the understanding of ontogenetic processes across the life course.

Thursday, 1:30 pm - 2:45 pm

(Event 1-023) Invited Symposium
Minneapolis Grand Ballroom Salon EF
Thursday, 1:30 pm - 2:45 pm

Memory and Cognitive Development: Social Contexts

Chair: Lisa Feigenson, Johns Hopkins University

- Infant siblings of children with Autism Spectrum Disorder: working memory, facial recognition, and attention to partner social/nonsocial event cues
Julia Noland, Vanderbilt University
- Visual short-term memory for objects is modulated by communicative reference
Gergely Csibra, Central European University
- Perceptual Narrowing for Faces and Objects in Infancy: From Percepts to Concepts?
Lisa Scott, University of Massachusetts Amherst

Abstract. Many theorists have posited learning biases that guide children to gather and store information relevant to particular problems in the world. For example, biases may help children remember and reason about entities such as objects, faces, and words. This developmental picture of biased learning may involve a complementary exchange between innate triggers and experience-dependent change. The three talks in this session will present data relevant to this possibility, in particular for the possibility that biases shape the way that children identify and remember socially meaningful information. In the first talk, Julia Noland will present evidence that infant siblings of children with autism-spectrum disorder show impaired memory for faces, but not objects, relative to typically developing controls. This suggests a genetically mediated capacity for remembering social stimuli. However, these types of innate triggers may gain further complexity when they themselves mediate further learning. This idea leads us to the second talk, in which Gergely Csibra reveals that the type of information that young children encode and remember about a scene (e.g., an object's location versus its features) depends on whether that information is presented in a social, communicative context. Finally, in the last talk, Lisa Scott demonstrates that although children may be biased to differentiate social from non-social stimuli from early in infancy, and may have better discrimination abilities for social than non-social entities, this bias can be overcome with some types of training experience. Taken together, these studies suggest ways in which a combination of starting biases and differences in experience shapes memory for social information.

Thursday, 1:30 pm - 3:00 pm

(Event 1-019) Paper Symposium

Marquette Ballroom Salon VIII
Thursday, 1:30 pm - 3:00 pm

Action Processing in Infancy: New Perspectives from Developmental Cognitive Neuroscience

Chair: Peter Marshall

- Infant EEG Responses to Action Observation vary with Expected Action Outcomes
Peter Marshall, Joni Saby, Andrew Meltzoff
- Exploring the Neurocognitive Mechanisms Underlying Social Learning: A Training Study with 9-Month-Old Infants
Markus Paulus, Sabine Hunnius, Harold Bekkering
- Neural Correlates of Action Anticipation in Infants from 5 to 9 Months of age
Vincent Reid
- The Role of Premotor and Temporal Cortex Engagement during Action Observation in Human Infants
Moritz Daum, Tobias Grossmann, Emily Cross, Luca Ticini, Angela Friederici

(Event 1-020) Paper Symposium

Marquette Ballroom Salon VI
Thursday, 1:30 pm - 3:00 pm

Contingency Reloaded: New Vistas from Eye Tracking

Chair: Jochen Triesch

- Learning from contingently reacting entities: an eye-tracking paradigm with 12-month-old infants
Erno Teglas, Agnes Kovacs, Gergely Csibra, György Gergely
- Infants in Control: Agency and Habituation
Jantina Bolhuis, Quan Wang, Thorsten Kolling, Constantin Rothkopf, Jochen Triesch, Monika Knopf
- Developing gaze-contingent paradigms to train attentional control in infancy
Samuel Wass, Kaska Porayska-Pomsta, Mark Johnson

(Event 1-021) Paper Symposium

Marquette Ballroom Salon IX
Thursday, 1:30 pm - 3:00 pm

Early Temperament Effects on Parent Emotion, Behavior, and Symptoms: How Infants May Contribute to Their Own Early Anxiety Risk

Chair: Rebecca J. Brooker

- Sustained Influence of Infant Temperamental Inhibition on Dyadic and Maternal Behavior Across the First Five Years
Amie Hane, Willa Marquis, Nathan Fox
- Child-Directed Effects on Maternal Behavior During Interactions With Novelty
Elizabeth Kiel, Danielle Kohler, Alexandra Hummel, Julie Premo
- Difficult Temperament in Infancy Evokes Changes in Parent Anxiety Symptoms Over Time
Rebecca Brooker, Jenae Neiderhiser, Leslie Leve, Daniel Shaw, David Reiss

(Event 1-022) Paper Symposium

Marquette Ballroom Salon III
Thursday, 1:30 pm - 3:00 pm

Grammatical Knowledge in Infant Lexical Processing

Chair: Susan C. Bobb

- The Primacy of Grammar in Infant Lexical Processing
Andréane Melançon, Rushen Shi
- Categorizing with Gender: Does Implicit Grammatical Gender Affect Lexical Access in Young Children?
Susan Bobb, Nivedita Mani
- Spanish Toddlers Use Grammatical Gender Cues Embedded in Familiar and Novel Adjectives to Identify an Unnamed Referent
Natalia Arias-Trejo, Elda A. Alva Canto
- Toddlers' Reliance on Grammatical Cues to Resolve Referential Ambiguity
Melissa Paquette-Smith, Elizabeth Johnson

Thursday

(Event 1-024) Paper Symposium

Marquette Ballroom Salon V
Thursday, 1:30 pm - 3:00 pm

Paternal Coparenting Across the Transition to Parenthood: Prenatal and Postnatal Influences

Chair: *Brandon McDaniel*

- Infant Sleep Quality and Mothers' and Fathers' Perceptions of Coparenting across the Transition to Parenthood
Brandon McDaniel, Douglas Teti
- Stability of Fathers' Prenatal Coparenting across the Transition to Parenthood: The Value of Prenatal Coparenting Observations
Regina Kuersten-Hogan, Susan Jarquin, Linda Charpentier
- Reciprocal Associations Between Father Involvement and Maternal Gate Opening
Sarah Schoppe-Sullivan, Claire Kamp Dush

(Event 1-026) Paper Symposium

Marquette Ballroom Salon IV
Thursday, 1:30 pm - 3:00 pm

Relation between sound symbolism and infants' multi-modal learning

Chair: *Mutsumi Imai*

- The Effects of Sound Symbolism on Toddlers' Sound-Shape Mapping
Daphne Maurer, Catherine Best, Ferrinne Spector
- Preverbal infants are sensitive to sound symbolism: Evidence from an ERP study
Michiko Asano, Mutsumi Imai, Sotaro Kita, Hiroyuki Okada, Keiichi Kitajo, Guillaume Thierry
- Infant Audiovisual Speech Perception is Linked to Lip-Shapes Achieved When Chewing or Sucking
Henny Yeung, Janet Werker
- Cross-modal and Cross-dimensional Matching of Magnitude in Infancy
Stella Lourenco

(Event 1-027) Paper Symposium

Marquette Ballroom Salon VII
Thursday, 1:30 pm - 3:00 pm

Stress in Parents of Preterm Infants

Chair: *Margaret S. Miles*

- The Parenting Stress of Fathers and Mothers of Late Preterm Infants
Karen Benzies, Joyce Magill-Evans
- Patterns of Psychological Distress in Mothers of Preterm Infants
Diane Holditch-Davis, Rosemary White-Traut, Janet Levy, Michael O'Shea, Donna Ryan
- Rethinking Stress in Parents of Preterm Infants: a Meta-Analysis
Renske Schappin, Lex Wijnroks, Monica Uniken-Venema, Marian Jongmans

(Event 1-025) Poster Session 2

Minneapolis Grand Ballroom Salon D
Thursday, 1:30 pm - 3:00 pm

Auditory perception:

- 1 Fetal Heart Rate Orientation to Sound in the Context of Movement
Lisa Ecklund-Flores, Julia Zavala, Albany Perez, Emilia Vignola, J. David Nugent, William Fifer, Michael Myers

Cortisol:

- 2 Alterations in Cortisol Stress Responses in Small for Gestational Age Neonates
Camelia Hostinar, Erin Osterholm, Megan Gunnar
- 3 Prenatal and Postnatal Cigarette Exposure: Effects on Stress Reactivity at 9 months of Age
Rina Eiden, Douglas Granger, Pamela Schuetze, Teresa Gray, Marilyn Huestis

Intersensory perception:

- 4 Development of Intersensory Matching of Fluent Speech in Infancy
Nicholas Minar, Amy Hansen-Tift, David Lewkowicz

Thursday

- 5 The Effectiveness of Intersensory vs. Intrasensory Redundancy in Facilitating Discrimination of Tempo in 2-Month-Old Infants
Lorraine Bahrack, Robert Lickliter, Irina Castellanos

Attention:

- 6 Infants' cardiac responses to changing auditory, visual, and cross-modal information
Christopher Robinson, Vladimir Sloutsky
- 7 The Effects of Predictable and Unpredictable Events on Infants' Attention and Distractibility
Kathleen Kannass, Kathryn O'Toole, Nancy Wyss
- 8 Detection of Threat in Infancy: An Eye-Tracking Study
Kaleigh Matthews, Siewli Stark, Vanessa LoBue

Depth perception:

- 9 Infants' Depth Perception from Motion Parallax
Elizabeth Nawrot, Jennifer Livingood, Mark Nawrot
- 10 The Ground Dominance Effect in 5- and 7-month-old Infants
Michael Kavšek, Carl Granrud
- 11 Young infants' perception of depth from a pictorial cue: Comparing monocular and binocular preferential-looking
Aki Tsuruhara, Sherryse Corrow, So Kanazawa, Masami Yamaguchi, Albert Jonas

Eye movements/fixations:

- 12 Effect of goal occlusion on action anticipation during observation of manual reaching
Claudia Elsner, Gustaf Gredeback
- 13 Object Boundary Discrimination in Early Infancy
Clay Mash, Marc Bornstein, Martha Arterberry

Attention:

- 14 Five-month-old Infant Ability to Coordinate Attention as a Predictor of Responding to Joint Attention and Language Development during the Second Year
Nikita Rodrigues, Bethany Reeb-Sutherland, Nathan Fox

- 15 Female Face Improves Object-Word Associative Learning in 14-Month-Olds
Laura Mills, Avanthi Jayaweera, Priya Saxena, Robin Panneton

- 16 Infants' Preference for the Novel versus Familiar during Word Mapping: Implications for Developmental Methodology
Lakshmi Gogate, Elisa Salomoni, Tamara Santos

Auditory perception:

- 17 Language-Specific Tuning of Audiovisual Integration in Early Development
Nicole Depowski, Barbara Gruenbaum, Kathleen Shaw, Martijn Baart, Heather Bortfeld

Autism/autistic spectrum disorder/ early diagnosis of autism:

- 18 Speech Segmentation Abilities of Infants At-Risk for Autism As a Predictor of Early Expressive Language
Jennifer Ference, Suzanne Curtin

Babbling:

- 19 Hearing Speech-like Syllables Prior to Object Labeling Facilitates Infant Word Learning
Rachel Albert, Michael Goldstein, Jennifer Schwade

Bilingualism:

- 20 Does "Chien" Prime "Cat"? Semantic-Lexical Priming in Bilingual Toddlers
Rafalla Farag, Caroline Floccia, Hester Duffy, Samantha Durrant, Claire Delle Luche

Thursday

21 Recognition of Mispronounced Depicted Words by Bilingual and Monolingual Toddlers
Abeba Roessler, Núria Sebastián-Gallés

Categorization:

22 Developmental Changes in the Domain-Specific Contribution of Labeling for Toddlers' Categorization
Gil Diesendruck, Ronit Tangi

23 Brief Exposure to Non-native Language Interactions Influences Object Categorization During the First Year of Life
Nicole Hendrix, Alissa Ferry, Susan Hespos, Sandra Waxman

24 The Effect of Labels on Infants' Formation of Social Categories
Matar Ferera, Laya Schwartz, Gil Diesendruck

25 Categorization of Real and Replica Objects by 14- and 18-month-old Infants
Martha Arterberry, Marc Bornstein

26 Infant categorization of music and language units under timbral variability
Eugenia Costa-Giomi, Leslie Cohen

Causal reasoning:

27 Causal Reasoning in Infants
Birgit Träuble, Fattma Al-Janabi

28 Forcing the Issue: Testing Force Dynamics Theory in Early Childhood
Nathan George, Tilbe Göksun, Kathy Hirsh-Pasek, Roberta Golinkoff

Cognition:

29 Prelinguistic Relational Concepts: Investigating the Origins of Analogical Reasoning in Infants.
Alissa Ferry, Susan Hespos, Dedre Gentner

30 The Unusual Box Test: A Non-verbal Measure of Divergent Thinking for 2-Year-Olds
Simone Bijvoet, Elena Hoicka

31 The Role of Stimulus Novelty in Children's Inflexible Dimensional Shift
Gelareh Jowkar-Baniani, Mark Schmuckler

Conceptual development:

32 Thyme to touch: 8- to 18-month-old infants show a reluctance to touch plants
Annie Wertz, Karen Wynn

34 Early categorization ability and vocabulary development
Tamiko Ogura, Tamami Masuda

Emotions:

36 Contributions of Toddlers' Anger and Fear Reactivity to Later Cognitive Planning Abilities
Sara Seyed Nozadi, Tracy Spinrad, Nancy Eisenberg, Natalie Eggum, Snjezana Huerta, Alison Edwards, Michael Sulik, Julie Sallquist

Child care:

37 Continuity of Care and Toddler Social Competence: The Role of Responsive Caregiving
Karen Ruprecht, James Elicker

38 Child Care Providers' Understanding and Interpretation of Child Behavior Predicts Emotional Availability of Caregiving Relationship
Jessica Pleuss, Amy Susman-Stillman

39 Emotional Availability Between Caregiver and Child: Interactions Between Child Care Provider Type and Effects of an Intervention
Jessica Pleuss, Amy Susman-Stillman

Cooperation:

40 Young children's intrinsic motivation to see others helped
Robert Hepach, Amrisha Vaish, Michael Tomasello

41 Developmental Changes in Predictors of Compliance
Lauren Broder, James Green

Thursday

Cortisol:

- 42 Cortisol Regulation in 12-Month-Old Infants: Associations With Early History of Breastfeeding and Co-sleeping
Roseriet Beijers, Marianne Riksen-Walraven, Carolina de Weerth

EEG/ERP:

- 44 Brain and Behavioral Measures of Social Orienting in Infants
Leslie Carver, Katherine Meltzoff

Emotion perception:

- 45 Infants' Discrimination of Their Peers' Emotional Expressions
Ross Flom
- 46 The Emergence of Social Referencing in Young Infants: The Roles of Contingency and Gaze Direction in Regulating Object Exploration
Mariana Vaillant-Molina, Lorraine Bahrick

Emotions:

- 47 Martial Conflict and Mother-infant Emotional Expressiveness in Mexican Origin Families
Emilie Yeakel, Paige Lechner, Eric Lindsey, Yvonne Caldera
- 48 Maternal Depression, Maternal Behaviors, and Child Emotional Development
Alexandra Hummel, Elizabeth Kiel
- 49 The Development of Infant Differential Behavioral Responding to Discrete Emotions
Eric Walle, Joseph Campos, Linda Camras

Feeding/feeding problems:

- 50 Breastfeeding Optimizes the Regulation of Emotions for Infants of Depressed Mothers
Melanie Kelly, Nancy Jones, Krystal Mize
- 51 Breastfeeding, Skin-to-Skin Contact, and Maternal Interactions
Ann Bigelow, Michelle Power, Doris Gillis, Janis MacLellan-Peters, Marion Alex, Claudette McDonald

- 52 MOTHERS' PRENATAL REACTIONS TO INFANT CRIES PREDICT INITIATION AND DURATION OF BREASTFEEDING
Meagan Mathews, Esther Leerkes

Heart rate:

- 53 Sleep Quality and RSA Predict Internalizing and Externalizing in Toddlerhood
Lauren Philbrook, Sunghye Cho, Elizabeth Davis, Kristin Buss
- 54 Do You Feel What I Feel: Cardiac Patterns During Another Infant's Cry Sound for Neonates of Depressed Mothers
Joseph Cotler, Nancy Jones, Krystal Mize
- 55 Cardiac Physiology as a Moderator of the Link between Surgency and Behavior Problems
Diane Lickenbrock, Elizabeth Davis, Cynthia Stifter, Kristin Buss

Infant cry:

- 56 "Soothable" Infants Mean Business When They Cry: Exploring the Relation Between Infants' Soothability and Cry Acoustics
Sarah Sanborn, Pamela Whitney, Gwen Gustafson, James Green

Maternal depression/postpartum depression/maternal disorder:

- 57 Accuracy of reported infant dysregulation in pediatric primary care among mothers with and without depression
Nina Burtchen, Mar Alvarez-Segura, Benard P. Dreyer, Francisco Xavier Castellanos, Parisa Parsafar, Milton Feliciano, Caroline Flaster-Taverner, Alan L. Mendelsohn

Maternal sensitivity:

- 58 Does a sensitive mother attune to her baby?: A systematic investigation of affect attunement
Andrea Parker, Kazuko Behrens

Thursday

Mother-child relations:

- 59 Change and Stability in Attachment Security From Age 1 to Age 2: The Effects of Maternal Mental Health, Stressful Life Events, and Economic Hardship
Katherine Harris, Alissa Huth-Bocks, Sarah Ahlfs-Dunn, Maegan Calvert, Christine Wall, Katelin McLeod
- 60 Maternal Sensitivity to Non-Distress in Infancy and Children's Later Mother-Directed Responses to Frustration
Mairin Augustine, Cynthia Stifter

Anxiety:

- 61 Dysregulated Fear in Toddlers: A Replication and Extension
Kristin Buss, Elizabeth Davis
- 62 Early Parental Anxieties about Infant Sleep Predict 6-Month Infant Sleep Arrangements
Jonathan Reader, Brandon McDaniel, Douglas Teti

Autism/autistic spectrum disorder/early diagnosis of autism:

- 63 Vocabulary Development of Infants At-Risk for Autism from 18 to 36 Months
Meagan Thompson, Helen Tager-Flusberg
- 64 Face-to-Face Still-Face Interaction in Infants at High vs. Low Risk for Autism: Affect, Looking Behavior, Vocalizations, and Coping Strategies
Jessie Northrup, Susan Campbell

Depression:

- 65 Fathers modulate infant receptive language development in the context of maternal depression.
Schale Azak
- 66 Breastfeeding Practices and its Relation to Depression Trajectories in First Time Mothers
Brittany Boersma, Jeffrey Measelle, Céline Scola, Jennifer Ablow

EEG/ERP:

- 67 Neural Basis of Intersensory Space-Time Mapping in Pre-Verbal Infants
Chris Porter, Daniel Hyde, Ross Flom, Sarah Stone

Dyadic interaction:

- 68 Orienting Response as it Relates to Mother-Infant Co-regulation and Attachment
Sarah Stone, Chris Porter

Perception:

- 69 Temporal Aspects of Coarse to Fine Image Processing in 7- to 8-Month Old Infants
Yumiko Otsuka, Hiroko Ichikawa, So Kanazawa, Masami Yamaguchi, Branka Spehar

Thursday, 3:15 pm - 4:15 pm

(Event 1-030) Invited Speaker

Minneapolis Grand Ballroom Salon G
Thursday, 3:15 pm - 4:15 pm

The poverty of the stimulus: Why early experience with language really matters

Chair: Christine Kitamura, MARCS Auditory Laboratories, University of Western Sydney
Speaker: Anne Fernald, Stanford University

Abstract. Hart and Risley (1995) estimated that some infants hear millions more words of child-directed speech by age 2 than do others. But this stunning claim about differences in cumulative language experience from caregivers was an underestimate. In some cultures, taboos exist against speaking to an infant at all, and within the U.S. there is enormous variability in the extent of verbal engagement between caregivers and infants. Extensive recordings of family interactions at home reveal that one 18-month-old may hear 20,000 words of child-directed language in a typical day, while another hears only 700 words over the same 12-hour period. And these differences in early language experience have important consequences. Using sensitive measures of language processing efficiency that are predictive of later outcomes, we find that variation in experience with child-directed speech relates both to infants' emerging skill in real-time language processing and to their vocabulary growth. In longitudinal studies with English- and Spanish-learning infants - spanning a broad SES range within each language group - three main findings emerge: First, substantial disparities in language proficiency are already evident at 18 months, equivalent to a 6-month gap in both language processing efficiency and vocabulary between infants from higher- and lower-SES families. Second, those infants who experience more and richer language from caregivers not only learn vocabulary more quickly, but also develop real-time language processing skills more rapidly than those who hear less child-directed talk. And third, the well-established link between language input and vocabulary is partially mediated by gains in processing efficiency. In refining our theories of language acquisition, it is essential to investigate not only typical developmental trajectories of children from privileged families, but also the wide range of variability that becomes apparent when children

from more diverse backgrounds are included. Would it matter if we discovered that age-specific developmental milestones are in fact only characteristic of infants in middle-class families? If we found that infants living in poverty are actually several months slower than higher-SES infants to show evidence of core abilities? It should matter, because to ignore such differences is to ignore the role of environmental support in the ontogeny of these critical capacities. A 6-month gap in processing efficiency at 24 months cannot simply be dismissed as a transitory delay, given that differences among children in language growth trajectories established by age 3 are predictive of later school success or failure. From a policy perspective, the challenge is to frame these discoveries as a public health message, with the goal of helping caregivers understand the crucial role they can play in enabling infants to build and strengthen skills essential for optimal language learning.



Biography. Anne Fernald, Ph.D. is the Josephine Knotts Knowles Professor of Human Biology at Stanford University. As director of the Language Learning Lab in the Department of Psychology, she conducts experimental studies of language processing by infants and young children, as well as observational studies of parent-infant interaction. Fernald and her research team have developed high-resolution measures of the time course of infants' understanding, as they learn to interpret language from moment to moment. These powerful tools for assessing infants' emerging skill in real-time comprehension illuminate how rich and varied engagement with language through adult-child interaction, starting in infancy, are crucial for optimal language development. In longitudinal studies with English- and Spanish-learning children from advantaged and disadvantaged families, this research reveals the vital role of early language experience in strengthening speech-processing efficiency, which in turn facilitates language learning.

Thursday, 3:15 pm - 4:45 pm

(Event 1-028) Paper Symposium

Marquette Ballroom Salon V
Thursday, 3:15 pm - 4:45 pm

Asymmetries in Early Visual Experiences Affect Experience-Expectant and Experience-Dependent Face Processing Abilities

Chair: Jennifer L. Rennels

- The Influence of Early Experience on the Later Development of Face Expertise: Lessons from Cataract-reversal Patients
Daphne Maurer, Catherine Mondloch, Rachel Robbins, Jane Dywan, Sidney Segalowitz
- The Influence of Early Experience on Race and Age Biases in Young Children's Face Recognition
Macchi Cassia Viola, Lizhu Luo, Lucia Gava, Hong Li, Kang Lee
- Different Caregiving Experiences Affect Infant Preference for Female Versus Male Faces
Kang Lee, Shaoying Liu, Liezhong Ge, Yueyan Zhang, Paul Quinn, Olivier Pascalis, Hui Chen
- Age Differences in Infant Categorization of Male Faces: Cumulative Experience with Female Faces Shapes Male Categories
Jennifer Rennels, Andrea Kayl, Rachel Davis

(Event 1-029) Paper Symposium

Marquette Ballroom Salon VI
Thursday, 3:15 pm - 4:45 pm

Early Preferences for Word Forms as Object Labels

Chair: Susan Graham

- Prosodic and phonotactic effects on infant word learning
Katharine Graf Estes, Sara Bowen
- Can sonority override phonotactics in early word learning?
Jessica Hay, McCall Sarrett
- Setting the stage: Referential training leads 12-month-olds to map illegal word forms to objects
Heather MacKenzie, Suzanne Curtin, Susan Graham
- The sounds of words: Do infants learn novel words containing unfamiliar language sounds?
Lillian May, Janet Werker

(Event 1-031) Paper Symposium

Marquette Ballroom Salon VII
Thursday, 3:15 pm - 4:45 pm

Mediators and Moderators of Maternal Sensitivity: The Role of Physiological, Neurobiological and Behavioral Responding to Distress

Chair: Ashley M. Groh

- PREGNANT WOMEN'S PHYSIOLOGICAL, EMOTIONAL, AND COGNITIVE RESPONSES TO INFANT CRYING VARY BASED ON THEIR ADULT ATTACHMENT STATUS
Esther Leerkes, John Haltigan, Maria Wong, Keren Fortuna
- Secure Base Knowledge and Responsiveness within Attachment-Relevant Contexts
Ashley Groh, Glenn Roisman, Katherine Haydon, Leanna Garcia, Colleen Hester
- A More Sensitive Scan of Maternal Sensitivity: Neural Correlates of Mother-Infant Behaviors
Heidemarie Laurent, Erica Musser, Jennifer Ablow
- Maternal Sensitivity to Distress and Non-Distress: Maternal Antecedents and Child Socio-Emotional Outcomes
Helen Emery, Nancy McElwain

(Event 1-032) Paper Symposium

Marquette Ballroom Salon IX
Thursday, 3:15 pm - 4:45 pm

Normativity in Young Children's Socio-Cultural Learning

Chair: Hannes Rakoczy

- Ontogenetic Origins of Children's Norm Psychology
Marco Schmidt, Hannes Rakoczy, Michael Tomasello
- Over-Imitation and Normativity
Stefanie Keupp, Hannes Rakoczy
- Over-Imitating Preschoolers Are Unsure of the Function of the Unnecessary Action, but Believe It Is Normative
Ben Kenward
- Children as 'Cultural Magnets': Investigating the Transmission and Evolution of 'Culture' in Groups of Young Children
Emma Flynn, Andrew Whiten

Thursday

(Event 1-034) Paper Symposium

Marquette Ballroom Salon IV
Thursday, 3:15 pm - 4:45 pm

Sleep and Development: How Sleep and Parenting Contribute to Behavioral, Socio-emotional, and Language Development

Chair: Amy Jo (A.J.) Schwichtenberg

- Infant Sleep, Mother-infant Interactions, and Behavior Problems at Preschool Age: A Differential Susceptibility Hypothesis
Annie Bernier, Stéphanie Bordeleau, Julie Carrier
- Bedtime Parenting vs. Infant Sleep Quality in the First Year of Life: Predicting Attachment Security and Behavior Problems
Douglas Teti, Bo-Ram Kim, Gail Mayer, Brandon McDaniel, Lauren Philbrook, Hye-Young Rhee, Mina Shimizu, Corey Whitesell, Brian Crosby
- The Unique and Combined Contributions of Maternal Sensitivity and Early Sleep Consolidation on Preschool Language Development
Ginette Dionne, Evelyne Touchette, Nadine Forget-Dubois, Jacques Montplaisir, Richard Tremblay, Michel Boivin
- Infant Sleep and Parenting as Predictors of Attachment Security and Behavior Problems in Toddlers Born Preterm
Amy Jo (A.J.) Schwichtenberg, Prachi Shah, Julie Poehlmann

(Event 1-035) Paper Symposium

Marquette Ballroom Salon III
Thursday, 3:15 pm - 4:45 pm

Surprise! The role of stimulus predictability in learners' explanations of the world

Chair: LouAnn Gerken

- Infants allocate attention to avoid overly simple and overly surprising word sequences
Celeste Kidd, Steven Piantadosi, Richard Aslin
- Surprise - An experience-based source of hypotheses
LouAnn Gerken, Joshua Tenenbaum, Colin Dawson, Razanne Chatila

- Use of unexpected input in hypothesis revision in acquiring inductive constraints
Sylvia Yuan, Zi Lin Sim, Madeline Hanson, Fei Xu
- Understanding infants' sense of surprise in a Bayesian framework for cognition
Joshua Tenenbaum

(Event 1-036) Paper Symposium

Marquette Ballroom Salon VIII
Thursday, 3:15 pm - 4:45 pm

Transactional Models of Parent-Child Influence from Infancy into Early Childhood

Chair: Angela J. Narayan

- Transactional Models of Parental Sensitivity, Dysfunctional Discipline, and Children's Behaviors from Infancy to Childhood
Lee Raby, Angela Narayan, Michelle Englund
- Physiological Self-regulation in Infancy Attenuates Relationships of Maternal Depressive Symptoms and Externalizing Behavior in Toddlerhood
Daniel Choe, Arnold Sameroff, Susan McDonough
- Parenting Quality among International Adoption Families
Jamie Lawler, Camelia Hostinar, Megan Gunnar
- Discussant
Alan Sroufe

(Event 1-033) Poster Session 3

Minneapolis Grand Ballroom Salon D
Thursday, 3:15 pm - 4:45 pm

Action perception:

- 1 Mu Rhythm Attenuation and its Relationship to the Effort of an Action: Evidence From 12 Month Old Infants
Michaela Upshaw, Jessica Sommerville, Raphael Bernier
- 2 Anticipatory Adjustments to Infant-Directed Actions
Vasu Reddy, Gabriela Markova
- 3 What Makes a Writing Instrument Writable? Infant Exploration of Graphic Instruments
Jackleen Leed, Wendy Jung, Björn Kahrs, Jennifer Maldarelli, Jeffrey Lockman

Computational/mathematical modeling:

- 4 An Empty-Headed Dynamical Model of Infant Visual Foraging
Steven Robertson

Critical periods/sensitive periods:

- 5 Non-linear Measures are Sensitive to the Severity of Cerebral Palsy for Sitting Postural Control
Bryan Arnold, Yawen Yu, Joshua Haworth, Srikant Vallabhajosula, Regina Harbourne, Nicholas Stergiou

EEG/ERP:

- 6 Somatotopic Organization of Sensorimotor Cortex Activation During the Execution of Arm and Leg Actions in 12-month-old Infants
Carina de Klerk, Mark Johnson, Victoria Southgate

Feeding/feeding problems:

- 7 Fetal Exposure to Synthetic Oxytocin and Prefeeding Cues Within One-Hour Postbirth
Aleeca Bell, Rosemary White-Traut, Kristin Rankin

Locomotion:

- 8 Effects of Locomotor Posture on Infants' Visual Experiences
Kari Kretch, John Franchak, Julia Brothers, Karen Adolph

Motor development:

- 9 Midline Toy Exploration in infants with Neonatal Stroke
Chao-Ying Chen, Jill Heathcock
- 10 Assessing the gross motor development in full-term Brazilian infants from zero to 18 months
Ana paula Gontijo, Livia Magalhães, Miriam Guerra
- 11 Initial Repetitive Hand Weighting Experience Facilitates Grip Development
Rosanne Kermoian, Jessica Ng Luna, Lammai Huynh

EEG/ERP:

- 12 Age Dependent Mirror Neuron Activity Measured by EEG
Therese Ekberg, Dorota Green, Pär Nyström
- 13 Individual Differences in 5-Month-Olds' Visual Attention Predict Future Executive Functions
Kimberly Cuevas, Vinaya Raj, Martha Ann Bell
- 14 Neural Correlates of Redundant and Non-Redundant Multimodal Stimulus Processing in 5-Month-Old Infants
Maggie Guy, Greg Reynolds, Lorraine Bahrack, Robert Lickliter, Dantong Zhang, Christopher Jewett, Alexandra Whitfield

Emotion regulation:

- 15 Brainstem role in the development of emotion regulation and attachment
Ronny Geva, Jessica Schreiber, Michal Marcus

Face processing/perception:

- 16 Face representation in infant temporal region investigated by the neural adaptation paradigm; the near-infrared spectroscopic study.
Megumi Kobayashi, Yumiko Otsuka, So Kanazawa, Masami Yamaguchi, Ryusuke Kakigi

fMRI:

- 17 Infants and fMRI: Considering temperament, genetics and environmental stress as predictors of scan successful scan completion
Kyndal Yada, Alice Graham, Philip Fisher, Jennifer Pfeifer

Mismatch negativity:

- 18 Maturation of the Mismatch Response From 2 to 4 Months of Age
Marion van den Heuvel, Renée Otte, István Winkler, Marijke Braeken, Bea van den Bergh

Thursday

Near-Infra Red Spectroscopy:

- 19 Object Perception in Infancy: A NIRS Study
Amy Hirshkowitz, Teresa Wilcox
- 20 Identifying candidate neural markers of language tuning using near-infrared spectroscopy
Eswen Fava, Rachel Hull, Heather Bortfeld

Neuro-imaging:

- 21 A stereotaxic MRI brain atlas for infant participants
John Richards, Michael Stevens, Alison Conington

Neuropsychology:

- 22 The Emergence of Neural Components of Performance Monitoring During Childhood
Rebecca Brooker, Kristin Buss

Parenting:

- 23 Prospective association between mothers' brain activity and anxiety levels at the first month postpartum and infants' socioemotional outcomes at 18-24 months
Pilyoung Kim, Ruth Feldman, James Leckman, Linda Mayes, James Swain

Perception-Action:

- 24 Different visual scanning patterns for goal-directed actions in humans and chimpanzees
Masako Myowa-Yamakoshi
- 25 Delineating EEG Responses to Different Types of Actions at 14 Months of Age
Joni Saby, Katherine Ridge, Andrew Meltzoff, Peter Marshall

Eye-tracking:

- 26 Oculomotor Activity in 4-month-old Infants Viewing Pictures of Possible and Impossible Objects
Sarah Shuwairi, Scott Johnson

- 27 Infants' observation of mother and non-mother faces: The role of audiovisual information and effects of mother-infant bonding
Noriko Morisawa, Yoko Hakuno, Yasuyo Minagawa-Kawai

- 28 Pedagogical and social cues help infants orient their attention to what is relevant in a social learning context: an eye tracking study with 10-month-old infants
Rana Esseily, Jacqueline Fagard

Face processing/perception:

- 29 Infants Shift Their Attention to the Mouth of a Talking Face When Learning to Talk
Amy Hansen-Tift, Nicholas Minar, David Lewkowicz
- 30 Infants' Perception of the Hollow-Face Illusion: An Investigation of the Face-Specificity Hypothesis
Sherryse Corrow, Jordan Mathison, Carl Granrud, Albert Yonas
- 31 Toddlers with Williams Syndrome Process Relational Information in Upright, but not in Inverted, Faces
Cara Cashion, Oh-Ryeong Ha, Christopher DeNicola, Carolyn Mervis

Habituation:

- 32 Characterizing the Nature of Representations for Substance Quantities
Yin-Juei Chang, Maija Wigoda-Mikkila, Susan Hesos, Lance Rips

Imitation:

- 33 Nine-Month-Old Infants do not Covertly Imitate Disembodied Hands
Alexis Barton, Ty Boyer, Bennett Bertenthal
- 34 The Pathway to Imitation: The Role of Objects and Actions in Imitative Acts During the First Year of Life
Elma Hilbrink, Elena Sakkalou, Katherine Ellis-Davies, Nia Fowler, Merideth Gattis

Thursday

Prematurity:

- 35 Chromatic and Luminance Contrast Sensitivity in Preterm and Fullterm Infants
Rain Bosworth, Karen Dobkins

Communication:

- 36 Anticipating regularities in social interactions: Infants bring their social history to new communicative contexts
Jennifer Miller
- 37 Origins of the Human Pointing Gesture: A Training Study
Danielle Matthews, Tanya Behne, Elena Lieven, Michael Tomasello
- 38 Twenty-Month-Olds' Understanding of Others as Monolingual or Multilingual
Casey Pitts, Athena Vouloumanos

Computational/mathematical modeling:

- 39 Modelling robustness in infant word recognition: The effect of noise and speaker identity
Christina Bergmann, Louis ten Bosch, Paula Fikkert

Connectionist modeling:

- 40 A Neural Network Model of Infant Vocalization Learning With Reinforcement
Anne Warlaumont, Gert Westermann, D. Oller, Eugene Buder

Dyadic interaction:

- 41 Physiological Measures of Interactional Synchrony Between Infants and Their Mothers
David McFarland, Linda Polka, Robin Panneton, Annie-Joëlle Fortin, Shreya Jalali, Kim Dionne
- 42 The Contribution of Maternal Synchrony and Maternal Sensitivity to Joint Attention Skills in Toddlers
Bridget Gamber, A. Rebecca Neal, Arianna Stefanatos

EEG/ERP:

- 43 Implicit naming while picture watching: an ERP study of 14-month old infants
Mihaela Duta, Suzy Styles, Kim Plunkett

- 44 French-speaking 14-month-olds are fast to detect a voiceless-to-voiced mispronunciation, but not the reverse: An ERP picture-word study
Jane Lubna Jöhr, Pascal Zesiger, Marina Laganaro, Ulrich Hans Frauenfelder

Gesture:

- 45 Mothers Provide More Labeling Utterances Following Infants' Gestural than Nongestural Communicative Bids
Janet Olson, Elise Masur

Infant cry:

- 46 Are Newborns' Cry Sounds Shaped By Their Native Language Environment? A More Appropriate Analysis
Sarah Sanborn, Gwen Gustafson, James Green, Hung-Chu Lin

Action perception:

- 47 Action Production Corresponds with Previous Action Perception in 7-month-old Infants: New Evidence by Means of Eye-tracking
Petra Hauf

Categorization:

- 48 Using categories: The influence of category structure on infants' ability to form behavioral associations
Dorothy Mandell, Maartje Raijmakers
- 49 Infants Can Use a Newly Learned Object Category for Scene Segregation
Sara Viator, Rebecca Gomez, Keri Bishop, Mary Peterson

Cognition:

- 50 Communicative Gestures in Infancy and the Relationship With Cognition
Leslie Patton, Martha Ann Bell, Stuart Marcovitch, Susan Calkins

Thursday

- 51 Stability of Grasping Errors Over a Two-Month Time Period

Daniel Walco, Jason French, Sravya Tumuluru, Catherine Bruton, Nicholas Brailas, Christine Lee, Dal Ackerman, Matthew Brailas, Karl Rosengren

- 52 Social experience and learning by watching
Laura Shneidman, Lily Gabaree, Amanda Woodward

False belief:

- 53 Nature of Response Practice Affects 2.5-Year-Olds' Performance in Elicited-Response False-Belief Tasks

Rose Scott, Peipei Setoh

- 54 Explaining the Apparent Discrepancy in False-Belief Reasoning: Evidence From a High-Demand Spontaneous-Response Task
Rose Scott, Gina Petro, William Morning, Peipei Setoh, Renee Baillargeon

Gaze-following/gaze understanding:

- 55 The power of human gaze on infant learning
Yuko Okumura, Yasuhiro Kanakogi, Takayuki Kanda, Hiroshi Ishiguro, Shoji Itakura

Genetics:

- 56 COMT and DAT-1 Polymorphisms Contribute to Individual Differences in Infants' Sensitivity to Novel Information
Julie Markant, Dante Cicchetti, Susan Hetzel, Kathleen Thomas

Gesture:

- 57 Actions Versus Gestures: When are Children First Sensitive to the Iconicity in a Gestural Demonstration?
Miriam Novack, Susan Goldin-Meadow, Amanda Woodward

Goals:

- 58 Can infants use goal-directed action cues to preferences for social interaction?
Kathryn Hobbs, Elizabeth Spelke

Parent-infant interaction

- 59 The impact of maternal emotional availability on children's cognitive and social-cognitive development: Evidence from a longitudinal study

Maria Licata, Claudia Thoermer, Susanne Kristen, Hannah Perst, Markus Paulus, Beate Sodan

- 60 Expressive timing cues in infant-directed singing are affected by infant age and sex
Anne Delavenne, Maya Gratier, Emmanuel Devouche

Parenting:

- 61 Parenting cognitions and caregiving principles
Alice Winstanley, Rebecca Sperotto, Merideth Gattis

Play:

- 62 The Relation Between Physical Space and Young Children's Play: A Cross-Cultural Examination
Sarah Berger, Maya Benish-Weisman, Feyza Corapci

- 63 Precursors of Coordinated Peer Play at 12 Months
Gabriela Markova, Maria Legerstee

Pretense:

- 64 Maternal pretense signals and toddlers' understanding of pretense in Japan
Naoko Nakamichi

Prosocial behavior:

- 65 Individual Differences in Toddlers' Helping, Sharing, and Repairing Behaviors: The Role of Maternal Mental State Language
Emily Newton, Miranda Goodman-Wilson, Ross Thompson

- 66 Young children proactively remedy unnoticed accidents
Felix Warneken

Thursday

Self regulation:

- 67 Attachment and Effortful Control in Children Born Preterm
Cynthia Burnson, Julie Poehlmann

Shyness:

- 68 Maternal Parenting Sense of Competence as a Mediator of the Relation Between Child Shyness and Approach Behaviors in Toddlerhood
Jessica Grady, Katherine Karraker, Darcey Powell

in 1996. He then helped to launch the RIKEN Brain Science Institute as Lab Head for Neuronal Circuit Development and served as Group Director (and now Special Advisor) before returning to the US in 2006. Hensch has received several honors, including the Young Investigator Award from both the Japanese (2001 Tsukahara Prize) and US Society for Neuroscience (2005); the NIH Director's Pioneer Award (2007) and currently directs an NIMH Silvio O Conte Center for Basic Mental Health Research at Harvard. He serves on the editorial board of various journals, including *J Neurosci* (reviewing editor), *Neural Development*, *Neuroscience Research*, *J Neurodevelopmental Disorders*, *Frontiers in Neural Circuits* and *Neuron*.

Thursday, 4:45 pm - 5:45 pm

(Event 1-037) Plenary Speaker

Minneapolis Grand Ballroom Salon ABC
Thursday, 4:45 pm - 5:45 pm

Plenary Address

Chair: Jacques Mehler, SISSA

Speaker: Takao Hensch, Harvard Medical School; Harvard University

Abstract. Dr. Takao Hensch's research focuses on critical periods in brain development. By applying cellular and molecular biology techniques to neural systems, his lab identified pivotal inhibitory circuits which orchestrate structural and functional rewiring of connections in response to early sensory experience. His work impacts not only the basic understanding of brain development, but also therapeutic approaches to devastating cognitive disorders later in life.



Biography. Takao K. Hensch is joint Professor of Neurology, Harvard Medical School at Children's Hospital Boston, and Professor of Molecular Cellular Biology (Center for Brain Science) at Harvard University. After undergraduate studies with Dr. J Allan Hobson at Harvard, he was a student

of Dr. Masao Ito at the Univ Tokyo (MPH) and Fulbright Fellow with Dr. Wolf Singer at the Max-Planck Institute for Brain Research, prior to receiving a PhD in Neuroscience working with Dr. Michael Stryker at the University of California San Francisco

Thursday, 6:00 pm - 7:30 pm

(Event 1-039) Reception

Minneapolis Foyer
Thursday, 6:00 pm - 7:30 pm

ICIS Welcome Reception

All attendees are invited to this event. Come and enjoy hors d'oeuvres and a cash bar while attending the evening poster session!

(Event 1-038) Poster Session 4

Minneapolis Grand Ballroom Salon D
Thursday, 6:00 pm - 7:30 pm

Pregnancy:

- 1 Fetal origins of individual differences in infant heart rate variability
Kristin Voegtline, Janet DiPietro, Kathleen Costigan

Prenatal stress:

- 2 Maternal Smoking During Pregnancy Programs the Infant HPA Axis: Epigenetic regulation of placental Glucocorticoid Receptor gene as a potential mechanism
Meaghan McCallum, Carmen Marsit, Laura Stroud

Thursday

- 3 Prenatal Anxiety and Maternal Sensitivity as Organisers of Infant Stress Reactivity and Regulation
Kerry-Ann Grant, Catherine McMahon, Marie-Paule Austin, Ron Rapee, Mike Jones, Jenny Donald

Face processing/perception:

- 4 Attention-Getting and Attention-Holding Effects of Faces on 4- to 8-Month-Old Infants
Christopher DeNicola, Amy Jacobs, Cara Cashon
- 5 Processing of Second-Order Facial Information in Infancy: The Role of External Features
Ashley Kangas, Nicole Zieber, Ramesh Bhatt
- 6 The Emergence of Body Representation in Early Infancy
Nicole Zieber, Ashley Kangas, Alyson Hoch, Ramesh Bhatt

Statistical learning:

- 7 Infants' Apprehension of Higher-Order Hierarchical Structure in Audiovisual Events
Diane Marie Mangalindan, David Lewkowicz, Mark Schmuckler

Temperament:

- 8 Inhibited Children Make More Eye Contact During a Novel Toy Paradigm
Jaime Dice, Meghan Dove

Tool use:

- 9 Reaching Infants Look At Tool Handles More Than Pre-reaching Infants
Amy Needham, Gabrielle Strouse, Ariel Borten

Visual perception:

- 10 The Development of Stereoscopic Vision in Infancy: A Longitudinal Study
Michael Kavšek, Elmira Marks

- 11 The Scan Patterns of Lightness: Clarifying Gestalt Grouping
Jennifer Gibson, Amy Needham

- 12 The Effect of Infant-directed Action on Infants' Gaze Pattern
Hiroshi Fukuyama, Masako Myowa-Yamakoshi

Accent:

- 13 Infants' Word Segmentation Across Accents; an ERP Study.
Hester Duffy, Caroline Floccia, Jeremy Goslin, Rafalla Farag, Jacqueline Turner

Communication:

- 14 Individual Versus Communicative Strategies of Object Retrieval in 12-Month Old Infants and Great Apes
Ulf Liszkowski, Marloes van der Goot, Michael Tomasello
- 15 Using Symbolic Gestures with Preverbal Children: Parents' Knowledge, Beliefs, and Rationale
Kalli Decker, Claire Vallotton

Infant-directed speech:

- 16 Interaction cues as predictors of the topic of infant directed speech
Gwenden Dueker, Megan Zelinsky
- 17 Age-Related Changes in Prosodic Features of Maternal Speech to Prelingually Deaf Infants With Cochlear Implants
Maria Kondaurova, Tonya Bergeson, Huiping Xu

- 18 I Heard this Before: Infants' Responses to Infant-Directed Singing and Speaking of Familiar and Novel Lyrics
Petra Hauf, Tricia Brosha, Jennifer Sullivan

Language:

- 19 The Role of Visual Attention in Early Language Acquisition
Alexa Romberg

Thursday

- 20 Relationship between Attention to a Speaker's Mouth and Maternal Educational Level in Infants 9-14 Months Old
Nancy Rader, Patricia Zukow-Goldring
- 21 Individual Differences on a Nonlinguistic Categorization Task Predict Later Language
Haruka Konishi, Aimee Stahl, Carolyn Kosko, Nadine Itel, Karina Shaoul, Roberta Golinkoff, Kathy Hirsh-Pasek

Maternal responsiveness/parental responsiveness:

- 22 Automated Measurement of Naturalistic Caregiver Responsiveness: An Investigation of Response Time and Child Language Skills
Jill Gilkerson, Jeffrey Richards, Dongxin Xu
- 23 Mothers Versus Others: How Caregiving Experience Influences Caregiver-Infant Interactions
Rachel Albert, Stephanie Ellman, Michael Goldstein

Cognition:

- 24 Young Children's Inductive Reasoning About Normative Rules and Statistical Regularities
Annette Cluver, Hannes Rakoczy
- 25 Correlates of Recall, Recognition, and Language at Ages 2 and 3
Morgan Hubble, Katherine Morasch, Amanda Watson, Martha Ann Bell

Conceptual development:

- 26 Children think they have always known generic facts that they just learned
Shelbie Sutherland, Andrei Cimpian
- 27 Four-Year-Olds Prefer to Learn About Kinds Rather Than About Individuals
Andrei Cimpian, JoAnn Park
- 28 Can infants distinguish between real and cartoon worlds?
Louise Bunce, Gert Westermann

Executive functioning:

- 29 Does Infant Attention Predict Child Executive Function Abilities?
Allison Friedman, Clancy Blair, Daniel Berry, Michael Willoughby
- 30 The Relationship between Executive Function and the Initiation of Joint Attention in the Second Year of Life
Stephanie Miller, Stuart Marcovitch

Face processing/perception:

- 31 Dynamic Subtle Facial Expression Can be Recognized by 6- to 7-month-old Infants
Hiroko Ichikawa, So Kanazawa, Masami Yamaguchi
- 32 Processing Speed of Same- or Other-Race Faces in 6-month-old Infants
Jeffrey Phung, Lisa Oakes
- 33 The effect of gaze direction on three-dimensional face recognition in infants
Wakayo Yamashita, So Kanazawa, Masami Yamaguchi

Habituation:

- 34 Systems and Cascades in Cognitive Development
Marc Bornstein, Chun-Shin Hahn, Dieter Wolke
- 35 Can Infants Attribute Multiple Preferences to Others?
Scott Robson, Valerie Kuhlmeier, Vivian Lee, Mel Rutherford

Emotion understanding:

- 36 Can infants use emotion cues to desire in the service of appropriate helping?
Kathryn Hobbs, Felix Warneken
- 37 Young children's sympathetic responses to justified and unjustified emotional distress
Robert Hepach, Amrisha Vaish, Michael Tomasello

Thursday

Emotions:

- 38 Maternal Sensitivity and Infant Jealousy: An EEG Study
Beren Avci, Maria Legerstee, David Haley

Executive functioning:

- 39 The Contribution of Maternal Executive Functions to Soothing Behavior during Interactions with a Distressed, Simulated Infant
Minh Tran, Sarah Vadnais, Kayde Merrell, Kyle Murdock, Kate Oddi, Katherine Siler, Lauren Laake, Helena Rutherford, Linda Mayes, David Bridgett

Face processing/perception:

- 40 Assessing the Effect of Exposure on Infants' Own-Race Visual Preference
Talee Ziv, Elizabeth Spelke
- 41 Priming of Gaze Orientation in 4-12 month-olds
Jessica Taubert, Kristen Sanders, Erin Robbins, Katherine Jayne, Lauren Davis, Lisa Parr, Philippe Rochat

Family processes:

- 42 A Cross-Cultural Comparison of How Adult Versus Youth Caregivers Say "No" to Two Year Olds
Douglas Sperry, Sara Glass, Jyoti Kolodziej, Melissa Hamil, Linda Sperry

Father-child relations:

- 43 Quality of father-infant and mother-infant interactions and subsequent child executive functioning
Marie Deschênes, Célia Matte-Gagné, Annie Bernier
- 44 Infant attachment with mothers and fathers: The role of infant perceptual sensitivity
Elizabeth Planalp, Julia Braungart-Rieker
- 45 Maternal and Paternal Soothing Behaviors in Response to Infant Crying
Carolyn Dayton, Brenda Volling, Wonjung Oh, Elizabeth Thomason, Lauren Rosenberg, Richard Gonzalez

Behavior disorders:

- 46 Development of Salivary Alpha Amylase from 18 to 36 months: Relations with Cortisol and Early Behavior Problems
Ashley Hill-Soderlund, Douglas Granger, Jean-Louis Gariépy, Martha Cox

Brain development:

- 47 Longitudinal Stability of Jealousy in Infancy
Kathryn Marsh, Melannie Pineda, Krystal Mize, Nancy Jones, Melanie Kelly

Child care:

- 48 The Effect of Hours Infants Spend in Nonmaternal Care on Their Proximity-Seeking Behavior in the Strange Situation
Tomo Umemura, Deborah Jacobvitz, Anne Bitchteler
- 49 The relation of extensive nonmaternal care to attachment disorganization
Caroline Christopher, Tomo Umemura, Nancy Hazen, Deborah Jacobvitz
- 50 Early Non-parental Care and Behavior Problems in Toddlers: Does Inhibitory Control Mediate the Relationship?
Roseriet Beijers, Marianne Riksen-Walraven, Samuel Putnam, Marjanneke de Jong, Carolina de Weerth

Communication:

- 51 Mutual Touching During Mother-Infant Interactions: Influence of Infant Birth Status and Interaction Period
Irene Mantis, Laura Ng, Dale Stack, Elana August

Cortisol:

- 52 Toddler Cortisol and RSA Reactivity Predict Age 3 Emotion Regulation
Elizabeth Davis, Kristin Buss

Depression:

- 53 Gender and Maternal Internalization: Informing the relation between emotion socialization and infant emotion regulation
Julie Premo, Elizabeth Kiel

Developmental psychopathology:

- 54 Abusive Intimate Partners' use of Children to Victimize Mothers: The Impact on Infant and Toddler Development
Sarah Ahlfs-Dunn, Alissa Huth-Bocks, Katherine Harris, Syreeta Scott, Lila Hatahet

EEG/ERP:

- 55 Neural correlates of processing facial expressions of pain and anger in infants and adults
Manuela Missana, Angela Friederici, Tobias Grossmann
- 56 Semantic processing of emotion-related words in infants and adults. An ERP study.
Elena Geangu, Vincent Reid

Emotion perception:

- 57 Recognizing Facial Expressions of Emotion by 3-and 6-Month-old Infants: The Role of Face Familiarity
Kristina Safar, Margaret Moulson

Emotion regulation:

- 58 Emotion Regulation in Early Childhood: The Role of Intrinsic and Extrinsic Factors Predicting Separation Anxiety
Jeremy Armstrong, Elizabeth Davis, Kristin Buss
- 59 The Indirect Effect of Maternal Emotion Regulation through Marital Adjustment on Infant Negative Affect
Nicole Lopez, Minh Tran, Dan Janiczek, Lauren Laake, Kyle Murdock, Kate Oddi, Sarah Vadnais, Kayde Merrell, Rob Miller, David Bridgett

Measurement:

- 60 To BMI or Not to BMI: Height Versus Length in Determining Body Mass Indices in Infancy
Wallace Dixon, Sarah Berry, William Dalton, Stacey Williams, Vincent Carroll

Motor Development:

- 61 Comparing object exploration skills between typically developing (TD) infants and infant siblings of children with autism from 6 to 15 months of age.
Maninderjit Kaur, Sudha Srinivasan, Anjana Bhat
- 62 Developmental changes and the influence of caregiver interactions during object sharing behaviors between 9 to 15 months of age and its applications to infants at risk for autism.
Sudha Srinivasan, Maninderjit Kaur, Anjana Bhat

Obesity:

- 63 Rapid Early Weight Gain in Infancy Predicts Higher BMI at 24-Months
John Worobey, Carolina Espinosa, Isabel Ramos

Parental attitudes:

- 64 Mothers' behavioral beliefs regarding infant/toddler television- and video-viewing as predictors of children's exposure
Sarah Vaala

Parent-infant interaction:

- 65 Do maternal play behaviors and child negativity interact to influence preterm or low birthweight toddlers' visual-spatial processing and working memory? Testing a differential susceptibility hypothesis.
Janean Dilworth-Bart, Kyle Miller
- 66 Parent Reassurance and Infant Pain Related-Distress: Relationships Across the First Year of Life
Nicole Racine, Rebecca Pillai Riddell, David Flora, Hartley Garfield, Saul Greenberg

Prematurity:

- 67 Cognitive and Socio-Emotional Developmental Competencies in Premature Infants at 12 Months: Predictors and Developmental Sequelae
Fumiyuki Chin, Douglas Teti

- 68 The Relationship Between Stress, Depression and Reflective Functioning in Mothers of Preterm Infants in NICU 7-14 Days after Birth
Michelle Heron-Delaney, Raychelle Sidhu, Margo Pritchard, Fiona Bogossian, David Cartwright, Anndrea Flint, Justin Kenardy, Louise Newman

Socio-economic status:

- 69 Income and Partner Status Moderate Association Between Maternal Education and Maternal Behavior
Jessica Gudmundson, Esther Leerkes, Marion O'Brien

Speech:

- 70 Acoustical analyses of mothers' speech to infants and children with normal hearing and hearing loss: a 5-year longitudinal study
Nicholas Smith, Mary Byrne, Colleen Gibilisco

Friday, 8:00 am - 9:15 am

(Event 2-004) Invited Symposium

Minneapolis Grand Ballroom Salon EF

Friday, 8:00 am - 9:15 am

Developmental Origins: Long-Term Effects of the Fetal Environment

Chair: John Colombo, University of Kansas

- Maternal High-fat Diet Consumption Suppresses Serotonergic System Signaling in Juvenile Nonhuman Primate Offspring Resulting in Persistent Changes in Behavior
Elinor Sullivan^{1,2}, A. Kostrba², K. Chamlou¹, L. Nousen¹, A. Davis³, D. Takahashi², K. Grove²
¹ University of Portland; ² Oregon National Primate Research Center; ³ Willamette University
- Fetal Cardiac Autonomic Control during Breathing and Non-Breathing Epochs: The Effect of Maternal Exercise
Kathleen Gustafson, University of Kansas Medical Center
- Fetal exposure to stress and stress peptides programs human fetal, infant and child behavior
Curt Sandman, University of California, Irvine

Abstract. Over the past 30 years, evidence has accumulated showing the effects of fetal conditions on long-term human health and development. Data from the Dutch "hunger winter" (Stein et al., 1975) have shown the effects of intrauterine malnutrition on adult health and mental performance; reports from the Framingham Heart Studies (e.g., Osmond & Baker, 2000) have shown that fetal adaptation to prenatal conditions are predictors of coronary and cardiovascular risk throughout the lifespan. Despite the relevance of this work to developmental science (developmental origins of health and disease have been identified as a thematic area for emphasis by NICHD), this work has not been embraced fully by researchers working in the areas of neural or behavioral function. The mechanisms behind these effects may involve different phenomena, such as physiological adaptations in the fetus, or epigenetic influence (e.g., methylation), but raise the possibility that very early experiences or conditions can have long-term effects in infancy, and across the rest of the lifespan. Since the effects occur during the

prenatal period, and may therefore affect the quality of female ova, the effects may be transgenerational. This symposium gathers individuals who have been conducting research on this fundamental topic in non-human models, clinical trials, and human populations to promote the pursuit of these issues in the context of infant studies. The papers will be discussed in terms of their relevance to infant studies, infant health, and intellectual and developmental disabilities.

Friday, 8:00 am - 9:30 am

(Event 2-001) Paper Symposium

Marquette Ballroom Salon IV

Friday, 8:00 am - 9:30 am

Closing the Loop: Accessing the Microdynamics of Learning in Infants' Social Interactions

Chair: Katharina J. Rohlfing

- SEED Model of Early Language Development: The Dynamic-Coupling of Infant-Caregiver Perceiving and Acting Forms a Continuous Loop during Interaction
Patricia Zukow-Goldring
- Infants' Gaze Modulates Maternal Multimodal Input: A Study with 3-Month-Olds
Iris Nomikou, Katrin Lohan, Katharina Rohlfing
- A 12 Month Social "Revolution" Emerges From Changes In Infant Sensorimotor Coordination: A Longitudinal Study Of Micro-Behavioral Patterns
Kaya de Barbaro, Christine Johnson, Deborah Forster, Gedeon Deák
- Joint Attention and Maternal Responsiveness in Multimodal Child-Parent Interaction
Chen Yu

Friday

(Event 2-002) Paper Symposium

Marquette Ballroom Salon VII
Friday, 8:00 am - 9:30 am

Communication and Information Transfer

Chair: Athena Vouloumanos

- Preverbal infants recognize that speech communicates information
Alia Martin, Kris Onishi, Athena Vouloumanos
 - 9-month-olds Understand that Pointing is Communicative
Madelaine Krehm, Kris Onishi, Athena Vouloumanos
 - Infants Point to Obtain Information
Katarina Begus, Teodora Gliga, Victoria Southgate
-

(Event 2-003) Paper Symposium

Marquette Ballroom Salon IX
Friday, 8:00 am - 9:30 am

Developmental Comparative Psychology: How Is Human Cognitive Development Unique?

Chair: Laurie R. Santos

- Differences in Cognitive Development Among Young Humans, Bonobos, and Chimpanzees
Victoria Wobber, Esther Herrmann, Brian Hare, Richard Wrangham, Michael Tomasello
 - Comparing Human and Primate Spatial Reasoning Development: the Example of the Rotational Displacement Skill in Rhesus Macaques
Kelly Hughes, Laurie Santos
 - The Origins of Spatial Skills: Memory Development in Chimpanzees (Pan Troglodytes) and Bonobos (Pan Paniscus)
Alexandra Rosati, Brian Hare
-

(Event 2-005) Paper Symposium

Marquette Ballroom Salon VIII
Friday, 8:00 am - 9:30 am

Infant Phonetic Learning in Context: The Influence of Faces, Objects, and Words

Chair: Katie Von Holzen

- Learning phonemes from faces: The role of speaker identity in non-native phoneme discrimination
Katie Von Holzen, Nivedita Mani
 - Learning to Generalize Sound Patterns from Word Labels
Henny Yeung, Thierry Nazzi
 - Word context affects phonetic discrimination in eight-month-old infants
Naomi Feldman, Emily Myers, Katherine White, Tom Griffiths, James Morgan
 - The potential for word-forms to contribute to vowel learning
Daniel Swingley
-

(Event 2-006) Paper Symposium

Marquette Ballroom Salon III
Friday, 8:00 am - 9:30 am

Mirroring, Understanding, and Learning From Others' Actions

Chair: Ty W. Boyer

- Developmental Prerequisites for Covert Imitation in Nine-Month Old Infants
Ty Boyer, Bennett Bertenthal
- What is Reflected by Neural Mirroring Systems? An EEG Study of 14-Month-Olds
Joni Saby, Peter Marshall, Andrew Meltzoff, Thomas Shipley
- Imitation in infancy: Does teleological reasoning contribute to infants' imitation beyond motor resonance?
Markus Paulus, Sabine Hunnius, Harold Bekkering
- Selective imitation in relation to the demonstrator's inferred knowledgeability in 18- to 24-month-old infants
Ildikó Király, Fruzsina Elekes

(Event 2-007) Paper Symposium

Marquette Ballroom Salon V
Friday, 8:00 am - 9:30 am

The Effects of Locomotor Experience on Psychological Development in Infancy: New Areas, New Methods, New Findings

Chair: Joseph J. Campos

- The Effects of Crawling Experience on Infant Social and Perceptual Skills
Audun Dahl, Joseph Campos, David Anderson
- The Effects of Powered Mobility Training in Infancy: A Yoked-Control Design
Ichiro Uchiyama, David Anderson, Mika Ueno, Joseph Campos
- Mental Rotation Ability in 9-Month-Old Infants: The role of self-produced locomotion and manual object exploration
Gudrun Schwarzer, Claudia Freitag
- Walking the Walk: Infant language development and the acquisition of walking
Eric Walle, Joseph Campos

(Event 2-008) Paper Symposium

Marquette Ballroom Salon VI
Friday, 8:00 am - 9:30 am

Using Psychophysiological Measures to Understand Emotion and Emotion Regulation in Infancy

Chair: Margaret W. Sullivan

- The Psychophysiology of Approach and Withdrawal Emotions in a Goal Blockage Context
Margaret Sullivan, Dennis Carmody, Michael Lewis
- Emotion Regulation in Infancy: The Contribution of Maternal Intrusiveness and Infant Neurophysiology to Behavioral Regulation during Frustration.
Margaret Swingle, Susan Calkins, Nicole Perry, Stuart Marcovitch, Martha Bell
- Psychophysiological Indicators of Stress Regulation during Infancy
Martha Ann Bell, Anjoli Diaz, Jessica Kraybill

Friday, 9:30 am - 11:00 am

(Event 2-009) Paper Symposium

Marquette Ballroom Salon IV
Friday, 9:30 am - 11:00 am

Comparative Perspectives on Infant Learning From Structured Interactions With Caregivers

Chair: Michael H. Goldstein

- Parents Actively Contribute to Vocal Learning in the Zebra Finch (*Taeniopygia guttata*)
Otilia Menyhart, Raymond Chou, Michael Goldstein, Tim DeVoogd
- Differences between maternal and paternal responsiveness to infants' prelinguistic vocalizations
Julie Gros-Louis, Zhen Wu
- Female social behavior influences male vocal learning in brown-headed cowbirds (*Molothrus ater*)
Jennifer Miller
- Influences of Maternal Responsiveness on Vocal Learning in Prelinguistic Infants
Rachel Albert, Michael Goldstein, Jennifer Schwade

(Event 2-010) Paper Symposium

Marquette Ballroom Salon V
Friday, 9:30 am - 11:00 am

Examining the Role of Statistical Learning in Word Segmentation

Chair: Casey Lew-Williams

- Infant Statistical Learning in Natural Language Acquisition
Casey Lew-Williams, Jenny Saffran
- Learning and Long-Term Retention of Large-Scale Artificial Languages
Michael Frank
- How Transitional Probabilities and the Edge Effect Contribute to Listeners' Phonological Bootstrapping Success
Elizabeth Johnson, Juwairia Sohail, Tania Zamuner
- Cuing Infants in: From Universal to Language-Specific Cues in Word Segmentation
Constantine Lignos, Charles Yang

Friday

(Event 2-011) Poster Session 5

Minneapolis Grand Ballroom Salon D
Friday, 9:30 am - 11:00 am

Action perception:

- 1 Longitudinal Changes in Infant Postural Adjustments to Being Picked-Up
Vasu Reddy, Gabriela Markova
- 2 Infants' muscle activation speaks about infants' action understanding.
Chiara Turati, Elena Natale, Nadia Bolognini, Marta Picozzi, Irene Senna, Elena Longhi, Macchi Cassia Viola

Attention:

- 3 Attention in Crawling and Pre-Crawling Infants
Pamela Whitney, Nazia Syed, James Green

Motor development:

- 4 The age of achieving motor milestones predicts overall level and growth of productive vocabulary
Ora Oudgenoeg-Paz, M.(Chiel) Volman, Paul Leseman
- 5 Moment-to-Moment Behavioral Trade-Offs During the Acquisition of Motor and Language Milestones
Sarah Berger, Tiffany Poteat, Jana Iverson
- 6 Does Infant Handedness Predict Toddler Handedness? A Longitudinal Study Comparing Early Reaching to Later Bimanual Hand Use
Eliza Nelson, George Michel

Postural control:

- 7 Gaze and Posture Differentially Entrain to the Motion Structure of a Point-Light Visual Stimulus
Joshua Haworth, Regina Harbourne, Wayne Fisher, Nicholas Stergiou

- 8 Move More Learn Faster: Contribution of Sway Variability to Achieving the Sitting Milestone in Infants with Cerebral Palsy
Yawen Yu, Joshua Haworth, Srikant Vallabhajosula, Regina Harbourne, Nicholas Stergiou

Problem solving:

- 9 Planning When Grasping Objects With Handles
Wendy Jung, Björn Kahrs, Jennifer Maldarelli, Jeffrey Lockman

Reaching:

- 10 Development of Role-Differentiated Bimanual Manipulation in Right- and Left-Handed Infants From 9 to 14 Months
Iryna Babik, Julie Campbell, George Michel

Tool use:

- 11 Toddlers' control of hand-held tools
Björn Kahrs, Wendy Jung, Jeffrey Lockman

Animacy:

- 12 Animacy perception in 9-month-old infants: an event-related potential study
Katharina Kaduk, Birgit Elsner, Vincent Reid

Attention:

- 13 Visual orienting of attention is mediated by the nature of the stimuli involved
Valentina Ghirardi, Elisa Di Giorgio, Francesca Simion
- 14 Selective visual attention: A mechanism for perceptual narrowing in infancy
Dantong Zhang, Maggie Guy, Greg Reynolds, Christopher Jewett, Alexandra Whitfield

Auditory perception:

- 15 Infants' perception of naturalness in water sounds: the role of scale-invariance
Judit Gervain, Janet Werker, Maria Geffen

Friday

- 16 What makes "nice sounds" sound nice?
Examining consonance, harmonicity and
beating preferences in 6-month-old infants
*Andrea Unrau, Josh McDermott, Laurel
Trainor*

Bayesian models:

- 17 A Bayesian model of perceptual narrowing
in infant face perception
Benjamin Balas

Bilingualism:

- 18 Evidence for Early Language Dominance:
The development of VOT Discrimination in
Mono- and Bilingual Infants
Liquan Liu, René Kager

Categorical perception:

- 19 Categorical Perception of Facial
Expressions in Infancy
*Vivian Lee, Jenna Cheal, Margarita Vera-
Cruz, Mel Rutherford*

Color perception:

- 20 Visual Discrimination of Color Saturation at
6 Months
*Clay Mash, Martha Arterberry, Marc
Bornstein*

Communication:

- 21 "From the Time We Wake Up 'til We Go to
Sleep": When and How Parents Use
Symbolic Gestures with Their Preverbal
Children
Kalli Decker, Claire Vallotton

Infant-directed speech:

- 22 The salience of phrase-final cues in infant-
directed speech: Evidence from perception
*Eon-Suk Ko, Melanie Soderstrom, Lindsay
Bacala*
- 23 Infant perception of visual prosody using
point-light displays of talking faces
*Christine Kitamura, Bahia Guellai, Jeusun
Kim*

Language input:

- 25 Learning of Phonemic Vowel Length from
Distributions of Japanese Infant-directed
Speech
*Ricardo Bion, Kouki Miyazawa, Reiko
Mazuka*

- 26 Parents' Social Cues and Children's
Language Acquisition
Mariel Kyger, Catherine Sandhofer

Language:

- 27 How infants aged 14-month detect semantic
roles in causal events
Miriam Dittmar
- 28 Seventeen-Month-Olds Encoding of Lexical
Stress in Familiar Representations
*Jennifer Campbell, Suzanne Curtin, Jared
Berman, Susan Graham*

Phonology:

- 29 A Study on Child Phonetic Development
with an Objective and Automated Approach
Dongxin Xu, Jill Gilkerson, Jeffrey Richards
- 30 The Emergence of Rhyme Preference
Gerald McRoberts, Dave Braze

Prematurity:

- 31 Infant Sensitivities to Native-Language
Phonotactics as a Predictor of Later
Language Outcomes in Preterm and Full-
term Children
Glenda Molina, James Morgan

Cognition:

- 32 "Nice but Ignorant" or "Mean but
Knowledgeable": What Types of Reliability
Affect Infants' Learning and Prosocial
Behaviours?
*Ivy Brooker, Diane Poulin-Dubois, Katherine
Gittins*
- 33 Can Infants Count? Does the Measurement
of Multiple Behaviours Sum Up to an
Answer?
Kirsty Dunn, Gavin Bremner

Friday

Imitation:

- 34 Sources of Over-imitation in 3- and 5-year-old Children
Stefanie Keupp, Hannes Rakoczy

Individual differences:

- 35 Individual Differences in Behavior on an Exploratory Version of the A-not-B task
Maria Johansson, Linda Forssman, Gunilla Bohlin

Infant-directed speech:

- 36 Connected Speech Processes in Infant-Versus Adult-Directed Speech
Julie Kow, Huiwen Goy, Elizabeth Johnson

Inhibitory control:

- 37 Control Yourself: Inhibition and Spatial Reasoning in Preschoolers
Leigh Spivey, Amy Joh

Intention/intention understanding:

- 38 Young Children Use Intentional Cues to Infer Sorting Strategies
Yue Yu, Tamar Kushnir

Nonhuman/comparative studies:

- 39 Intuitive Statistics in Non-human Primates
Annette Cluver, Liane Saucke, Nicole Stoffregen, Josep Call, Hannes Rakoczy
- 40 Spatial cues in small-scale spaces: do primates use landmarks like humans do? Evidence from brown capuchins (*Cebus apella*)
Kelly Hughes, Laurie Santos

Number:

- 41 Communication breakdown: Object tracking and analog magnitude representations are incommensurable
Kristy vanMarle

- 42 Small Number Discrimination in Infancy: A Case for Approximate Number Representations
Ariel Starr, Melissa Libertus, Elizabeth Brannon

- 43 How High Can You Count?: Probing the Limits of Young Children's Counting
Tasha Posid, Sara Cordes

Causal reasoning:

- 44 Early predispositions to causal agency: A comparative study
Lucia Regolin, Elena Mascialzoni, Giorgio Vallortigara, Francesca Simion

Child care:

- 45 Infant-Toddler Teacher Qualifications and Child Outcomes: Teacher-Child Interaction as a Mediator
Treshawn Anderson, James Elicker
- 46 Infant-toddler development related to child care quality in a statewide quality rating and improvement system (QRIS)
James Elicker, Carolyn Langill, Karen Ruprecht, Joellen Lewsader, Treshawn Anderson

Emotion perception:

- 47 Attention to Emotional Facial Expressions Moderates Infants' Susceptibility to Maternal Depressive Symptoms
Mikko Peltola, Jallu Lindblom, Jari Hietanen, Kaija Puura, Mirjami Mäntymaa, Jukka Leppanen

Emotion regulation:

- 48 Infant Positive and Negative Affect as Contributors to Maternal Parenting Self-Efficacy
Holly Schubert, Victoria Yopst, Lauren Boddy, Kyle Murdock, Harrison Lindner, Allison Behm, Kate Oddi, Lauren Laake, Ashley Hill-Soderlund, David Bridgett

Friday

Genetics:

- 49 Gender-Specific Effects of Oxytocin Receptor Gene on Early Social-Cognitive Development
Jukka Leppanen, Mikko Peltola, Kaija Puura, Mirjami Mäntymaa, Nina Mononen, Terho Lehtimäki

Gesture:

- 50 Pointing signals infants' readiness to learn
Katarina Begus, Teodora Gliga, Victoria Southgate

Imitation:

- 51 Rationality or Resonance? Eight-month-olds Copy Outcomes Rather Than Actions
Rebecca Sperotto, Elma Hilbrink, Elena Sakkalou, Kate Ellis-Davies, Merideth Gattis
- 52 Mimicry's role in play initiation for 18-month-old infants
Christine Fawcett, Ulf Liskowski
- 53 The Influence of Temperament on Rational Imitation in 14-month-old Infants
Eun Young Kim, Hyun-joo Song

Parent-infant interaction:

- 54 Feeding Regulation and Dysregulation
Lisa Brown, Karen Pridham, Roger Brown
- 55 Interactive Behaviors between Lumbee Mothers and their Premature Infants
Jada Brooks, Diane Holditch-Davis, Lawrence Landerman

Parenting:

- 56 Factors that Increase the Odds of Consistent Bedtime and Bedtime Routines for 14 Months Old Children in Low Income Families
Michaela Zajicek-Farber

Physiology:

- 57 Is Infant Emotion Expression Related to later Blood Pressure?
Margaret Sullivan

Pregnancy complications/pregnancy outcomes:

- 58 Developmental Outcomes in Infants of Opiate Addicted Women: Effects on Cognitive and Motor Development
Beth Logan, Nicole Heller, Deborah Morrison, Hira Shrestha, Marie Hayes

Prematurity:

- 59 Investigating Mothers' Live Singing and Speaking Interaction With Preterm Infants in Nicu: Preliminary Results
Manuela Filippa, Maya Gratier
- 60 Development of Regulatory Processes in High-Risk Infants: Effects of CNS Injury, Neonatal Neurobehavior and Attention Regulation
Elizabeth Lennon, Judith Gardner, Jennifer O'Brien, Felicia Balsamo, Michael Flory, Shevon Haywood, Bernard Karmel

Prenatal stress:

- 62 Childcare Stress, Feelings of Maternal Self-Efficacy and Control, and Maternal Depression During Pregnancy for Second-Time Mothers
Elizabeth Thomason, Brenda Volling, Heather Flynn, Carolyn Dayton, Richard Gonzalez
- 63 Conceptualizing Prenatal Life Stressors in Predicting Postpartum Depression: Cumulative, Specific, and Domain Specific Approaches to Calculating Risk
Cindy Liu, Ed Tronick
- 64 Prenatal Stress and Infant Birth Outcomes in Mexican Americans
Betty Lin, Shayna Coburn, Linda Luecken, Keith Crnic

Early experience:

- 65 Attachment Disorganization in Infancy and Moderational Pathways to Level and Change in Behavior Problems during Preschool Ages
Feihong Wang, Martha Cox

Longitudinal research:

- 66 MONDEY: Testing objectivity, reliability and construct validity of a new standardized inventory to monitor development from 0-3
Sabina Pauen, Lena Ganser

Maternal depression/postpartum depression/maternal disorder:

- 67 Postnatal Depression is Related to Maternal Feeding Beliefs and Behaviours
Samantha Rogers, Jackie Blissett
- 68 The Relation of Maternal Postpartum Depressive and Anxiety Symptomatology to Maternal Responsiveness to Infant Distress at 3 Months
Fernanda Lucchese, Marjorie Beeghly, Karen Olson, Ed Tronick

Measurement:

- 69 The Development of the Dutch Version of the Bayley-III: The Bayley-III-NL
Leonie Steenis, Marjolein Verhoeven, Anna van Baar

Models/Modeling:

- 70 Predicting Social and Emotional Problems in the First Year of Life
Catherine Joyce, Rhonda Guinn, Maureen Sorrells, Henry Herrod, Eraina Schauss, Frances Tylavsky, Joyce Graff, Laura Murphy, Federick Palmer, Andrew Bush

Friday, 9:45 am - 10:45 am

(Event 2-012) Invited Speaker

Minneapolis Grand Ballroom Salon G
Friday, 9:45 am - 10:45 am

Development evolving: From innateness to epigenesis

Chair: Robert Lickliter, Florida International University

Speaker: Mark Blumberg, University of Iowa

Abstract. With their shared interests in time and change, developmental scientists and evolutionary biologists should be natural allies. But for most of the 20th century, development was banished from mainstream evolutionary thinking. This rift can be traced to the belief that genes determine the bodies and behaviors of adults, thereby rendering development uninteresting and unimportant. But times have changed: Embryos and infants are now widely viewed as vital intermediaries between the adults of successive generations, thereby focusing attention back on the mechanisms of development. Critically, closer inspection of behaviors that were once considered hardwired and innate is yielding a deeper appreciation for the complex cascade by which genetic and non-genetic factors jointly, interchangeably, and reliably reproduce behavior across generations. But still, even as processes of developmental change move to the forefront of biology, many developmental scientists continue to embrace ideas held over from an earlier time. Using examples drawn from studies of motor development, sexual differentiation, and sensory neuroscience, I will show in this talk how a full consideration of the processes of typical and atypical development, including so-called freaks of nature, will engender a unified and interdisciplinary understanding of change across developmental and evolutionary time.



Biography. Mark Blumberg, F. Wendell Miller Distinguished Professor at the University of Iowa, is a member of the Departments of Psychology and Biology and the Delta Center. He received his A.B. from Brandeis University in 1983 and his Ph.D. from the University of Chicago in 1988. After postdoctoral training at Indiana University, he joined the faculty at the University of Iowa in 1992. He received an Early

Career Award from the American Psychological Association (APA) in 1997 and became a fellow of Division 6 in 2005. He also received the Regents Award for Faculty Excellence from the University of Iowa in 2009. Dr. Blumberg has received over four million dollars in federal grant support, including FIRST and Independent Scientist Awards from the National Institutes of Health. He serves now on the editorial board of *Developmental Psychobiology* and is Editor-in-Chief of the APA journal *Behavioral Neuroscience*. He recently co-edited *The Oxford Handbook of Developmental Behavioral Neuroscience* (Oxford University Press, 2010). Dr. Blumberg's publications cover a wide variety of topics and have strong developmental themes. Currently, he uses the tools of developmental behavioral neuroscience to understand how and why periods of arousal and sleep change across development, as well as how movements specifically produced during REM sleep contribute to the development of sensorimotor systems. Blumberg's three books of popular science reflect his broad interests in development, behavior, and evolution: *Body Heat: Temperature and Life on Earth* (Harvard University Press, 2002), *Basic Instinct: The Genesis of Behavior* (Thunder's Mouth Press, 2005), and *Freaks of Nature: What Anomalies Tell Us about Development and Evolution* (Oxford University Press, 2009).

Friday, 9:45 am - 11:00 am

(Event 2-013) Constructed Paper Symposium

Marquette Ballroom Salon IX
Friday, 9:45 am - 11:00 am

How infants' knowledge of socio-pragmatic and semantic relationships informs language development.

Chair: Kyle Chambers, Gustavus Adolphus College

- Twenty Four-Month-Old Infants Use Social-Pragmatic and Linguistic Cues in Learning Nouns and Verbs
Wen Xiao, Him Cheung
- Lexical Semantic Knowledge in 24-Month-Olds
Jon Willits, Erica Wojcik, Mark Seidenberg, Jenny Saffran
- Parent Input Mediates Sex Difference Found in Children's Talk About the Spatial World
Shannon Pruden, Susan Levine

(Event 2-014) Constructed Paper Symposium

Marquette Ballroom Salon III
Friday, 9:45 am - 11:00 am

Infant perception

Chair: Sabine Hunnius, Radboud Universiteit Nijmegen

- Cued multimodal learning in infancy: A neuro-computational model
Rachel Wu, Thomas Hannagan
- Mental Rotation in 5-Month-Olds Tested With Paired Stimuli
David Moore, Scott Johnson
- Experience and Face Processing: How Pet Experience Influences Infants' Scanning of Animal Faces
Karinna Hurley, Lisa Oakes

(Event 2-015) Constructed Paper Symposium

Marquette Ballroom Salon VI
Friday, 9:45 am - 11:00 am

Investigations of human and primate infants' affective and emotional development: Associations with parental and caregiver behavior

Chair: Tobias Grossmann, Max Planck Institute (Leipzig)

- Early Mother and Infant Affective Behavior and Predictions from Prenatal Stress
Shayna Coburn, Betty Lin, Keith Crnic
- Understanding Early Self-Efficacy: Measurement, Predictors and Vulnerabilities for Risk in Toddlers
Julia Oppenheimer, Jeffrey Measelle, Jennifer Ablow
- Attachment in chimpanzees raised in laboratory nurseries
Kim Bard, Marinus van IJzendoorn, Marian Bakermans-Kranenburg
- The Contributions of Maternal Emotion Coaching Beliefs and Toddler Internal State Language to Early Expressions of Empathy
Neda Senehi, Tiffany L. Martoccio, Holly Brophy-Herb

(Event 2-016) Constructed Paper Symposium

Marquette Ballroom Salon VII
Friday, 9:45 am - 11:00 am

Patterns of Neural Activity in Infants' Speech Processing

Chair: *Kimberly Cuevas*, Virginia Tech

- Separating simultaneous sounds: the development of the object-related ERP response across infancy
Nicole Folland, Blake Butler, Laurel Trainor
- The neonate neural response to native, non-native, and whistled language
Lillian May, Judit Gervain, Manuel Carreiras, Janet Werker
- Referential Word Understanding in 9-Month-Old Infants: Electrophysiological Evidence
Eugenio Parise, Gergely Csibra
- Pitch discrimination in infancy: examining the development of a temporal pitch mechanism
Blake Butler, Nicole Folland, Laurel Trainor

(Event 2-017) Constructed Paper Symposium

Marquette Ballroom Salon VIII
Friday, 9:45 am - 11:00 am

Theoretical and methodological issues in infant cognition

Chair: *Henny Yeung*, Université Paris Descartes

- Deconstructing Infant Gaze and Novelty Preferences: Shifting Smart is Harder Than Staying Put
Donna Fisher-Thompson, Joshua Goldberg, Emily Mather
- Making sense of familiarity and novelty responses in a single experiment
Rory DePaolis, Tamar Keren-Portnoy, Marilyn Vihman
- Sometimes Piaget was Right: Spontaneous Imitation Demonstrates Infants' Active Contribution to Development
Elma Hilbrink, Elena Sakkalou, Katherine Ellis-Davies, Nia Fowler, Merideth Gattis

Friday, 11:15 am - 12:30 pm

(Event 2-018) Dedicated Symposium

Minneapolis Grand Ballroom Salon ABC
Friday, 11:15 am - 12:30 pm

Plasticity and Epigenetic Influences in Development (in honor of William Greenough)

Chair: *Charles A. Nelson*, Children's Hospital Boston, Harvard Medical School

- Epigenetic Consequences of Adverse Early Social Experiences in
Stephen Suomi, National Institute of Child Health and Human Development
- Prefrontal plasticity and behavioral development
Bryan Kolb, University of Lethbridge
- Experience-expectant remodeling of adult damaged brains.
Theresa Jones, University of Texas at Austin



Abstract: This invited symposium will pay tribute to the work of William Greenough, of the University of Illinois. Over the course of 3 decades, Dr. Greenough made enumerable contributions to our understanding of how experience impacts both brain function and brain development. After Charles

Nelson briefly summarizes Dr. Greenough's brilliant career, three speakers will then illustrate a number of Dr. Greenough's specific contributions by drawing on their own work. Stephen Suomi will open the symposium by discussing how adverse early social experience deleteriously impacts primate bio-behavioral development. Bryan Kolb will then review recent evidence of how perinatal factors influence behavior and the epigenetic and synaptic organization of the prefrontal cortex in development, and how early experience-dependent prefrontal changes can influence brain plasticity and behavior in adulthood. The symposium will close with comments by former student Theresa Jones, will focus her remarks on how behavioral experiences shape the reorganization of neural connectivity in the adult damaged brain, including processes that resemble those found during brain development.

(Event 2-019) Invited Symposium

Minneapolis Grand Ballroom Salon EF
Friday, 11:15 am - 12:30 pm

The Role of Comfort in Social Development: Biological and Cognitive Perspectives

Chair: Susan C. Johnson, Ohio State University

- Variation in the Oxytocin Receptor (OXTR) Gene Influences Attachment and Social Stress Regulation
Frances Chen, University of Freiburg
- The Development of Prosocial Behaviour: Infant's Responses to Instrumental Need, Emotional Distress, and Material Desire
Kristen Dunfield, Ohio State University
- 8-month-olds Expect an Adult to Respond to a Crying but not to a Laughing Infant
Kyong-sun Jin¹, Jessica Houston², Renee Baillargeon¹, Glenn Roisman¹, Stephanie Sloane¹, Ashley Groh¹
¹ University of Illinois, Urbana-Champaign; ² Marquette University

Abstract. The ability to accept or offer comfort plays a central role in multiple aspects of social development including attachment, stress regulation and the development of empathy and prosocial behavior. The three talks included in this symposium will present current research on the topic. The first paper, by Frances Chen, will report on natural variations in the oxytocin system as they relate to differences in infants' attachment style, infants' representation of comforting behavior, and the development of stress regulation and trust across the life span. The second paper, by Kristen Dunfield, will discuss the functional specificity of comfort as a social behavior by contrasting its developmental trajectory with that of other prosocial behaviors in infants and toddlers and discussing the cognitive prerequisites involved in the recognition of distress. Finally, Kyong-sun Jin and her collaborators will close the symposium with evidence from comprehension studies that infants understand the functional relationship between distress and comfort by 8 months of age, well before it is reflected in their productive behaviors as measured by either attachment status or prosocial acts.

Friday, 1:30 pm - 2:45 pm

(Event 2-027) Invited Symposium

Minneapolis Grand Ballroom Salon EF

Friday, 1:30 pm - 2:45 pm

Social Perception in Infancy: A Neuroscience Perspective

Chair: Tobias Grossmann, Max Planck Institute for Human Cognitive and Brain Sciences

- Does the Infant Brain Distinguish between Animate and Inanimate Visual Categories?
Sabina Pauen¹, Sebastian Wahl¹, Stefanie Hoehl¹, Gert Westermann²
¹University of Heidelberg; ²Lancaster University
- Human Action Perception during Infancy: A fNIRS Investigation
Sarah Lloyd-Fox, University of London
- The Influence of Race on the Development of Multimodal Emotion Processing
Lisa Scott, University of Massachusetts, Amherst
- Multisensory Perceptual Narrowing in the Infant Brain
Tobias Grossmann

Abstract. Newborns enter the world equipped with biases that help them to preferentially orient towards socially relevant information (e.g., faces, voices, and biological motion). While these biases serve important functions in setting the stage by prioritizing social information in perception, we are only now beginning to understand how a variety of factors shape and change social perceptual abilities in the first year of life. This symposium will bring together a series of presentations that address the question of how social perceptual abilities develop by providing insights into the brain processes that underpin infants' social perception. Pauen and colleagues will present evidence for infants' early emerging ability to distinguish between animate and inanimate visual categories using event-related brain potentials (ERPs). Lloyd-Fox will present findings that highlight the role that infants' own motor experience plays in the perception of human action using functional near-infrared spectroscopy (fNIRS). Scott will present ERP findings that illustrate the influence of race on the multisensory perception of emotional expressions, suggesting that the brain processes involved in integrating emotional information across the senses change during infancy and become narrowed to own- race faces. Relatedly, using ERPs,

Grossmann will provide insights into how multisensory perceptual processes change and become narrowed to own-species vocalizations compared to other-species vocalizations. In summary, these findings will paint an integrative picture of how and when during infancy specific factors contribute to the increasing specialization of the brain processes that underpin social perception.

Friday, 1:30 pm - 3:00 pm

Event 2-020) Paper Symposium

Marquette Ballroom Salon VI

Friday, 1:30 pm - 3:00 pm

Are learning and memory development culture dependent? Results from a comparative longitudinal study in Germany and Cameroon

Chair: Ina Fassbender

- The Influence of African vs. Caucasian Faces on Association Learning Abilities in German and Cameroonian Infants at 3 and 6 Months
Ina Fassbender, Manuel Teubert, Arnold Lohaus
- Mother-infant interaction and memory development: A longitudinal analysis of German middle-class and rural Cameroonian Nso infants
Bettina Lamm, Helene Gudi, Heidi Keller
- Contingency learning of 3-month-olds: A comparison of German middle-class and Cameroonian Nso farmer infants
Frauke Graf, Bettina Lamm, Monika Knopf
- Motor skills influence the recognition of faces and objects in 9-month-old German and Cameroonian infants
Claudia Freitag, Sibylle Spangler, Gudrun Schwarzer

(Event 2-021) Paper Symposium

Marquette Ballroom Salon III

Friday, 1:30 pm - 3:00 pm

Computational Models of Phonetic and Phonological Acquisition

Chair: Paula Fikkert

- A Novel Algorithm for Statistical Learning of Phonetic Categories
Maarten Versteegh
- A Computational Approach to Early Language Bootstrapping
Emmanuel Dupoux
- Early Lexical and Phonological Development: An Ecological Model
Francisco Larcera

(Event 2-022) Paper Symposium

Marquette Ballroom Salon VIII

Friday, 1:30 pm - 3:00 pm

Consonant and Vowel Specificity in Early Word Form Representations

Chair: Silvana Poltrok

- Newborns' Brain Signals the Bases of Word Representations at Birth
Silvia Benavides-Varela, Jean-Rémy Hochmann, Francesco Macagno, Marina Nespor, Jacques Mehler
- Early consonant / vowel asymmetry: evidence from speech segmentation in French-learning 6- and 8-month-olds
Léo-Lyuki Nishibayashi, Thierry Nazzi
- What does the Intermodal Preferential Looking paradigm tell us about consonant and vowel specificity in French-speaking infants?
Pascal Zesiger, Jane Lubna Jöhr, Ulrich Frauenfelder
- Vowels and consonants in early word learning: Evidence for positional asymmetries in German learning 20-month-olds
Jeannine Schwytay, Barbara Höhle

(Event 2-023) Paper Symposium

Marquette Ballroom Salon IV

Friday, 1:30 pm - 3:00 pm

Making Sense of Infant Eye Movements

Chair: Caitlin Brez

- Exploring Stochastic and Memory Components of Fixation Dynamics
Sammy Perone, Larissa Samuelson
- Behavioral and Psychophysiological Measures of Infant Cognition
Caitlin Brez, John Colombo
- Rich Modeling and Data Analysis for Infant Experimentation
Steven Piantadosi, Celeste Kidd, Richard Aslin
- Quantitative Linking Hypotheses for Infant Eye Movements
Daniel Yurovsky, Shohei Hidaka, Rachel Wu

(Event 2-024) Paper Symposium

Marquette Ballroom Salon IX

Friday, 1:30 pm - 3:00 pm

New perspectives on infants' action prediction

Chair: Ivanina Henrichs

- Understanding of cooperative actions in 12-month-olds - an eye tracking study
Claudia Elsner, Marta Bakker, Katharina Rohlfing, Gustaf Gredeback
- Goal salience influences infants' action anticipation: an insight into the microstructure of predictions
Ivanina Henrichs, Claudia Elsner, Nick Wilkinson, Birgit Elsner, Gustaf Gredeback
- The early development of action anticipation
Amanda Woodward
- Using free-viewing eye-tracking to measure social attention and action anticipation across development
Michael Frank, Allison Kraus, Marisa Tice

Friday

(Event 2-026) Paper Symposium

Marquette Ballroom Salon V
Friday, 1:30 pm - 3:00 pm

Probing the nature of representations that support early false belief understanding

Chair: *Gergely Csibra*

- Interpreting events through a non-differentiated perspective triggers general knowledge encoding in 10-month-old infants
Dora Kampis, Eszter Somogyi, Shoji Itakura, Ildikó Király
- Levels of representations about others' beliefs in the infant mind
Agnes Kovacs, Erno Teglas, Gergely Csibra, György Gergely
- 12-month-olds' belief attributions support action predictions: an EEG study
Victoria Southgate, Angelina Verneti

(Event 2-028) Paper Symposium

Marquette Ballroom Salon VII
Friday, 1:30 pm - 3:00 pm

Social-Emotional Dynamics During Interactions With Infants: Does Mother or Infant Hearing Status Make a Difference?

Chair: *Nicole McCray*

- Emotional Availability and Touch Among Deaf and Hearing Mother-Infant Dyads
Grace Silvia, Lynne Koester
- Maternal Emotional Availability and Infant Attachment Behaviors: Does Hearing Status Make a Difference?
Whitney Rostad, Grace Silvia, Lynne Koester
- The Role of Dyadic Hearing Status in Early Social Interactions and Development of Deaf and Hearing Infants
Lynne Koester, Nicole McCray

(Event 2-025) Poster Session 6

Minneapolis Grand Ballroom Salon D
Friday, 1:30 pm - 3:00 pm

Obesity:

- 1 The Impact of Maternal Obesity on Early Infant Behavior
Marion Young, Amy Salisbury

Prenatal stress:

- 2 Maternal Depression during Pregnancy and Neonatal Birth Weight -A U-shaped Function?
Lisa Ecklund-Flores, Erica Downs, Tighisti Amahazion, Albany Perez, Dalit Matatyaho, PhD, William Fifer, Michael Myers
- 3 Variations in Maternal Prenatal Autonomic Reactivity Anticipate Infant Medical Problems at Birth
Brianna Hailey, Jeffrey Measelle, Elizabeth Conradt, Jennifer Ablow

Action perception:

- 4 Action Perception is Shaped by Action Experience
Janny Stapel, Sabine Hunnius, Harold Bekkering

Attention:

- 5 White Matter Integrity in Posterior Parietal and Posterior Occipital Regions as Predictors of Neonatal Attention and Performance at 1 Year of Age in Preterms
Maya Weinstein, Ronny Geva, Liat Ben Sira, Varda Gros-Tsur, Yael Leitner, Irit Berger, Ronella Marom, Shimrit Uliel, Dafna Ben-Bashat
- 6 Neonatal Development, Sleep, Arousal, and Attention Regulation
Ronny Geva

Auditory perception:

- 7 Developing Cortical Representations of Sound Location in Early Infancy
Christopher Slugocki, Laurel Trainor

Friday

- Autism/autistic spectrum disorder/early diagnosis of autism:**
- 8 An electrophysiological study of visual function in infants at risk for an ASD
Geneva DeGregorio, Vanessa Vogel-Farley, Kristin Concannon, Suzanna Hirsch, Shafali Jeste, Charles Nelson
- Brain development:**
- 9 Feeding Method and Quality of Mother-Infant Communication Influence Patterns of Infant Brain Development
Jillian Hardin, Chloe Barrera, Nancy Jones, Krystal Mize
- Developmental neurophysiology:**
- 10 Neonatal and Infant Characteristics of Preterm Infants Correlate with Cognitive Development at Six Years Old
Akira Saito, Hiroshi Tada, Naoki Uga
- Cognitive neuroscience:**
- 11 EEG Imaging of Toddlers During "Live" Dyadic Turn-Taking: Mu-Rhythm Modulation And Source-Clusters In Natural Action Observation and Execution
Yu Liao, Scott Makeig, Zeynep Acar, Gedeon Deák
- EEG/ERP:**
- 13 Longitudinal Associations Between Physiological Indices of Regulation
Santiago Morales, Rebecca Brooker, Elizabeth Davis, Kristin Buss
- 14 The Development of Multisensory Integration: Neural Correlates to Visual and Tactile Unimodal and Bimodal Stimuli Combinations
Silvia Rigato, José van Velzen, Andrew Bremner
- 15 Early Stability in Frontal EEG Asymmetry Shapes Infant Temperament
Grace Howarth, Nicole Fetig, Koraly Perez-Edgar, Martha Bell
- 16 Infant EEG and Toddler Temperament Predict 36-Month-Old Cognitive Task Performance
Amanda Watson, Morgan Hubble, Katherine Morasch, Martha Ann Bell
- 17 Infants' Object Location and Identity Processing in Spatial Scenes: An ERP Study
Anne van Hoogmoed, Danielle Van den Brink, Gabriele Janzen
- Emotion perception:**
- 18 Effects of Fearful Facial Expressions on Infants' ERP Responses to Fear-Relevant Stimuli
Stefanie Hoehl, Sabina Pauen
- 19 Infants' Perception of Emotion From Dynamic Body Expressions
Nicole Zieber, Ashley Kangas, Ramesh Bhatt
- Eye-tracking:**
- 20 The "Kiddy Carousel": Head-Mounted Eye-Tracking During Passive and Active Locomotion
Kari Kretch, Julia Brothers, Vivian Song, Karen Adolph
- 21 Spontaneous cross-modal magnitude matching in infants and adults
Jenny Ekström, Ellen Marklund
- Face processing/perception:**
- 22 The Dynamics of Infant Interest in Female and Male Faces
Jennifer Rennels, Andrew Cummings
- 23 Six-month-old Infants' Scanning of Meaningfully Distinct Infant-Directed Faces: Effects of Gender and Valence
Kate Shepard, Melanie Spence
- 24 The Different Role of Positive and Negative Expressions in the Modulation of 3-Month-Olds' Identity Face Recognition
Valentina Proietti, Viola Brenna, Rosario Montirosso, Chiara Turati

Friday

Nonhuman/comparative studies:

- 25 Processing of Hierarchical Visual Stimuli in Young Domestic Chicks
Orsola Rosa Salva, Lucia Regolin, Giorgio Vallortigara

Novelty preference:

- 26 Novelty Preferences and Visual Exploration: Assessing Stability Throughout the First Year
Donna Fisher-Thompson, Lisa Hetzel, Maureen Downey, Ashlyn Boniszewski

Object perception:

- 27 Object-based Attention in Infancy: An Empirical Comparison Between Physical and Social Objects
Eloisa Valenza, Hermann Bulf, Laura Franchin
- 28 Can 4-month-old infants segregate a similar partly occluded display?
Di Wu, Amy Needham, Renee Baillargeon

Pupillometry:

- 29 Infant and adult pupil size changes in response to visual complexity
Elena Geangu, Moritz Daum, Rishi Bhardwaj

Language:

- 30 A "bat" is easier to learn than a "tab": Effects of phonotactics on infant word learning
Nayeli Gonzalez Gomez, Silvana Poltrock, Thierry Nazzi
- 31 THE INFLUENCE OF PROSODIC OR PHONETIC INFORMATION ON AUDIO-VISUAL PERCEPTION IN INFANTS
Yukari Tanaka, Masako Myowa-Yamakoshi
- 32 An Evaluation of the Computerized Comprehension Task in English, Spanish, and French.
Margaret Friend, Pascal Zesiger

- 33 Processing the Rhythm: Word Identification in American and Singapore English
Giovanna Morini, Rochelle Newman, Leher Singh

Speech perception:

- 34 Reference and Construction of New Phonetic Categories at Nine Months and in Adulthood: Evidence of a Consonant / Vowel Asymmetry.
Mélanie Havy, Janet Werker
- 35 Infants' Sensitivity to Mispronunciations: Effects of Tone and Vowel Changes on Novel Word Learning
Leher Singh, Calista Chan, Jun Hui Tam, Shermaine Chionh
- 36 Cross-Language and Within-Language Semantic Priming in Bilingual Children
Calista Chan, Leher Singh, Fann Tay, Xin Rui Quek
- 37 Is there a stop bias in infant perception of consonant manner-of-articulation?
Young-Ja Nam, Linda Polka

Vocabulary development:

- 38 Infants' Comprehension of Words for Action Events and the Role of Motor Experience
Ruth Tincoff, Emily Blum, Robyn Roogow
- 39 The Validity of Parental Vocabulary Reports for Young Infants
Marieke van Heugten, Elizabeth Johnson

Vocalization/vocal learning:

- 40 Prelinguistic infants use vocalizations to communicate intentionally
Thomas Grünloh, Ulf Liszkowski
- 41 Tonal Synchrony and Affect Synchrony Between Mother and Infant: A-two-Levelled Communication
Martine Van Puyvelde, Gerrit Loots

Friday

Language:

- 42 Where social cues meet grammar: A roadmap for word learning
Melissa Hansen, Kathy Hirsh-Pasek, Roberta Golinkoff

- 43 Implicit versus Explicit Naming in Phonological Priming for Toddlers
Suzy Styles, Kim Plunkett

Learning:

- 44 Examining cross-modal binding in a novel infant-contingent procedure
Tracey Miser, Brian Spence, Hannah D'Souza, Christopher Robinson, Vladimir Sloutsky

Media:

- 45 Who's on the Computer? What Toddlers Learn From Video-Chatting
Robyn Kondrad, Judy DeLoache, Kasey Soska, Rachel Keen

Memory:

- 46 Transfer of spatial search between environments in young children: Implications for representation of local geometry
Adina Lew, Barrie Usherwood, Frantzeska Fragkioudaki, Varvara Koukoumi

Problem solving:

- 47 To See or Not to See: the Effectiveness of Perceptual Cues Versus Visual Imagery in a Spatial Problem-Solving Task
Amy Joh, Leigh Spivey

Motor development:

- 48 Age Differences in Young Children's Attempts to Grasp Photos
Jason French, Sravya Tumuluru, Daniel Walco, Fatima Sozzer, Karl Rosengren

Nonhuman/comparative studies:

- 49 Risk Preferences Across Social Contexts in Chimpanzees (*Pan Troglodytes*) and Bonobos (*Pan Paniscus*)
Alexandra Rosati, Brian Hare

- 50 Differing Patterns of Cognitive Development in Children and Juvenile Apes
Victoria Wobber, Esther Herrmann, Brian Hare, Richard Wrangham, Michael Tomasello

Number:

- 51 Abstract Matching: Six-month-old infants' intermodal representations of ratio
Yi Mou, Kristy vanMarle

- 52 One, two, three, four, something more? Proto-numerical discrimination in day old domestic chicks (*Gallus gallus*)
Rosa Rugani, Giorgio Vallortigara, Lucia Regolin

Social cognition:

- 53 The Roots of Normativity: 18-Month-Olds Intervene in Game Rule Violations
Marco Schmidt, Hannes Rakoczy, Michael Tomasello

- 54 Babies Prefer Truth-Tellers
Alia Martin, Karen Wynn

Social development:

- 55 Nine-and twelve-month-olds' anticipatory ability from facial expressions and their developmental and temperamental characteristics
Aya Kutsuki, Tomoyo Morita, Shoji Itakura

- 56 Effects of Postpartum depression on infant social interaction: a follow-up study during the first year of life
Tania Lucci, Maria Morais, Luiz Santos, Emma Otta

- 57 Caregiving Transitions Moderate the Relations between Early Attachment Experiences and Social Competence during Late Childhood
Margaret Woodbury, Alisa Almas, Kate Degnan, Nathan Fox, Charles Nelson, Charles Zeanah

Stress:

- 58 5-HTTLPR Associates to Behavioral Response and Hypothalamic-Pituitary-Adrenal Axis Reactivity to Still Face in 4-Month-Old Infants
Livio Provenzi, Rosario Montirosso, Daniela Tavian, Francesca Ciceri, Sara Missaglia, Francesco Morandi, Ed Tronick, Renato Borgatti

Television:

- 59 Play and the Presence of Background Television: Comparison of Middle-SES and Lower-SES Families
Elise Masur, Valerie Flynn

Temperament:

- 60 Do Opposites Attract? Sibling Temperament Differences and Interactive Behaviors
Rashida Barner, Sufna Gheyara, Jaimi Mathias, Amanda Palo, Lisabeth DiLalla
- 61 Longitudinal Associations between Infant Temperament, Maternal Stress, and Reactive Maternal Parenting Behavior
Kyle Murdock, Lauren Rodman, Nicole Lopez, Krissy Stewart, Maria Gartstein, David Bridgett

Theory of Mind:

- 62 The relation between early implicit and explicit false-belief reasoning and executive control
Claudia Thoermer, Beate Sodjan, Susanne Kristen, Maria Vuori, Hannah Perst

Sleep:

- 63 Does parental psychosocial adjustment in infancy influence subsequent toddlers' sleep consolidation?
Marie-Eve Belanger, Stéphanie Bordeleau, Annie Bernier, Julie Carrier
- 64 Infant Sleep Patterns and Parent Opinions about Infant Sleep Habits: Examining Relations with Temperament in 10-Month-Olds
Helen Milojevich, Angela Lukowski

Friday, 3:15 pm - 4:15 pm

(Event 2-032) Invited Speaker

Minneapolis Grand Ballroom Salon G
Friday, 3:15 pm - 4:15 pm

Infancy: How Culture and Biology Meet

Chair: Michael Tomasello, Max Planck Institute for Evolutionary Anthropology
Speaker: Heidi Keller, University of Osnabrück

Abstract. Infancy is the life phase where cultural emphases select and reinforce biological predispositions. Cultures specify differing world views of infancy that are oriented towards particular modes of autonomy and relatedness resp. Different prototypical and hybrid models of infancy will first be presented. The cultural embodiments of socialization strategies will be portrayed. The consequences for the cultural solution of universal developmental tasks will be highlighted with examples from our cultural/cross cultural multimethod research program. It is concluded that culture needs to be systematically introduced into developmental science.



Biography. Heidi Keller is a professor of psychology at the University of Osnabrück, Germany and the director of the department of culture and development in the faculty of Human Sciences. She is also the head of the research department "Culture, Learning and Development" of the Lower Saxonian Institute of Early Childhood Education and Development. She has always been interested in the interplay of development, culture and biology. She directs a multicultural longitudinal and multimethod research program. She has been a visiting professor in different universities in different countries. Her work is recognized internationally by multiple disciplines and serves as an important basis also for the development of applied programs.

(Event 2-038) Invited Speaker

Minneapolis Grand Ballroom Salon EF
Friday, 3:15 pm - 4:15 pm

What has the study of infants added to our understanding of how visual perception works?

Chair: Rick O. Gilmore, Penn State University

Speaker: Albert Yonas, Institute of Child Development, University of Minnesota

Abstract. By studying human infants we have found that perception of events in the external world is present from birth and not built by learning the associations between meaningless sensations. The problem researchers face is that of discovering the optical information and constraints that make perception possible. A fundamental question is how is it that the visual field is segmented into objects? Work on Looming and Relative Motion begin to characterize this information and how infants develop sensitivity to such.



Biography. Albert Yonas did his undergraduate work at the University of Michigan. He went on to graduate school at Cornell University, where he had the great luck of working with Eleanor and James Gibson who strongly influenced his approach

to studying development and perception. Since 1968 he has been fortunate to be part of an outstanding group of researchers in human development at the University of Minnesota.

Friday, 3:15 pm - 4:45 pm

(Event 2-029) Paper Symposium

Marquette Ballroom Salon VII
Friday, 3:15 pm - 4:45 pm

Cardiovascular regulation and social behavior in typically developing and at-risk infants and children

Chair: Amy Vaughan Van Hecke

- Contributions of RSA, Joint Attention, and Temperament to Withdrawn Behavior and Pervasive Developmental Problems in Typically Developing Toddlers
Jeffrey Karst, Amy Vaughan Van Hecke, Audrey Meyer, Sheryl Stevens, Kirsten Schohl, Bridget Dolan
- Correlates of respiratory sinus arrhythmia in autism spectrum disorders: Impact on social development challenges
Michelle Patriquin, Angela Scarpa, Bruce Friedman, Stephen Porges
- Vagal Regulation in Infants of Depressed Mothers: Associations with Social Behavior
Matthew Rouse, Cara Lusby, Sherryl Goodman, Amanda Brown, Meaghan McCallum
- Parasympathetic regulation in response to orientation among infants with and without prenatal drug exposure
Elizabeth Conradt, Steve Sheinkopf, Charles Bauer, Seetha Shankaran, Henrietta Bada, Toni Whitaker, Linda LaGasse, Jane Hammond, Barry Lester

(Event 2-030) Paper Symposium

Marquette Ballroom Salon VI
Friday, 3:15 pm - 4:45 pm

Early Life Programming: Prenatal Stress, Postnatal Caregiving and Genetic Vulnerabilities

Chair: Kerry-Ann Grant

- The Effects of Prenatal Stress on Birth and Health Outcomes of Exposed Offspring: Project Ice Storm and the Iowa Flood Study
David Laplante, Kelsey Dancause, Anne-Marie Turcotte-Tremblay, Kimberly Nylén, Jane Engeldinger, Michael O'Hara, Suzanne King
- Does Anxiety about the Pregnancy Outcome Influence the Developing Infant in Women Conceiving through In Vitro Fertilization (IVF)?
Catherine McMahon, Kerry-Ann Grant
- Does the Prenatal Environment Prepare the Fetus for the Postnatal World?
Elysia Poggi Davis, Laura Glynn, Wendy Goldberg, Curt Sandman
- Prenatal Programming of Postnatal Plasticity
Michael Pluess

Friday

(Event 2-031) Paper Symposium

Marquette Ballroom Salon IV
Friday, 3:15 pm - 4:45 pm

Examining the links between motor and communicative development

Chair: Jana Iverson

- I can walk, I can talk: Emerging motor development predicts language development
Kate Ellis-Davies, Elena Sakkalou, Nia Fowler, Elma Hilbrink, Merideth Gattis
- Mothers' Response to Infant Object Sharing
Lana Karasik, Emma Celano, Catherine Tamis-LeMonda, Karen Adolph
- Infant and preschool language and non-linguistic abilities
Katie Alcock, Kirsty Krawczyk

(Event 2-033) Paper Symposium

Marquette Ballroom Salon VIII
Friday, 3:15 pm - 4:45 pm

Maternal and Infant Consequences of Perinatal Stress and Depression in Low-income Mexican American Families

Chair: Danielle S. Roubinov

- Effects of Maternal Prenatal Depression in Mexican-American Women: Implications for Infant Temperament and Physiological Activity
Danielle Roubinov, Rebecca Newland, Linda Luecken, Keith Crnic, Nancy Gonzales
- The Effects of Prenatal Daily Hassles on Maternal Mood, Physiology, and Behavior during Early Infancy
Lucia Ciciolla, Keith Crnic, Linda Luecken, Nancy Gonzales
- The Effects of Postpartum Depression and Childhood Adversity on Maternal and Infant Sleep in Low-Income Mexican American Families
Jenna Gress-Smith, Rika Tanaka, Linda Luecken, Keith Crnic, Nancy Gonzales

(Event 2-035) Paper Symposium

Marquette Ballroom Salon III
Friday, 3:15 pm - 4:45 pm

Prelinguistic gestures: Effects on, and effects of, caregiver responsiveness

Chair: Julie Gros-Louis

- Differential Vocalizing Accompanied with Pointing Gesture Relative to Mothers' Attention and Responses
Zhen Wu, Julie Gros-Louis
- Social feedback to infants' gestures facilitates gesture-plus-vocal combinations
Jennifer Miller
- Differential Maternal and Paternal Responses to Infants' Gestures
Jennifer Andersen, Julie Gros-Louis
- Communication development and maternal responsiveness in infants at high versus low risk for autism
Nina Leezenbaum, Susan Campbell, Derrecka Butler, Jessie Northrup, Jana Iverson

(Event 2-036) Paper Symposium

Marquette Ballroom Salon V
Friday, 3:15 pm - 4:45 pm

Putting the Pieces Together: Development of Structural Shape Perception

Chair: Daphne Maurer

- Shape from Depth in Early Learning
Clay Mash, Marc Bornstein
- The Ecology of Shapes in a Toddler's Life
Alfredo Pereira, Linda Smith
- Structural Encoding of Object and Face Images in Infants and Adults
Faraz Farzin, Chuan Hou, Anthony Norcia

(Event 2-037) Paper Symposium

Marquette Ballroom Salon IX
Friday, 3:15 pm - 4:45 pm

The Role of Differential Susceptibility in Infancy on the Cognitive, Behavioral and Psychosocial Outcomes of Young Children

Chair: Prachi E. Shah

- Early Mother-Infant Interactions and Child Subsequent Executive Functioning: A Case of Differential Susceptibility?
Annie Bernier, Emilie Rochette
- Evidence for Differential Susceptibility: Infant Temperament, Maternal Parenting in Early Childhood and Adjustment to School
Kathleen Gallagher, Ann Stright, Ken Kelley
- Proneness to Distress and Cognitive and Behavior Outcomes in Children Born Preterm: Differential Susceptibility to Parenting
Cynthia Burnson, Julie Poehlmann
- Gestational Age and Differential Susceptibility to Parenting: Cognitive and Behavioral Outcomes of Preterm Infants with Varying Degrees of Prematurity
Prachi Shah, Renuka Coelho, Julie Poehlmann

(Event 2-034) Poster Session 7

Minneapolis Grand Ballroom Salon D
Friday, 3:15 pm - 4:45 pm

EEG/ERP:

- 1 8 in 1 - A Novel Approach to Efficient Data-Collection and Reduced Data-Loss in Infant ERP-Studies
Manuela Stets, Mike Burt, Vincent Reid

Eye-tracking:

- 2 Visual+Auditory Congruity Affects Infants' Eye Tracking of Talking Faces
Alison Heck, Robin Panneton
- 3 Comparing Object Detection in Early Infancy to Adulthood
Bryan Nguyen, Rahman Zolfaghari, Scott Johnson

Face processing/perception:

- 4 Do Faces Attract Young Infants' Attention? Examination of Attentional Shift Behavior in 4-Month-Old Infants
Yumiko Otsuka, Hiroko Ichikawa, Wakayo Yamashita, So Kanazawa, Hermann Bulf, Eloisa Valenza, Masami Yamaguchi
- 6 Developmental changes in infants' visual inspection of upright and inverted faces
Lisa Oakes, Ann Ellis
- 7 Infants' Scanning of Dynamic and Static Faces
Jessica Stubbs, Lesley Wheeler, Teresa Wilcox, Gerianne Alexander

Perception:

- 8 Children's Ability to Update Mental Representations via Verbal and Pictorial Cues
Gelareh Jowkar-Baniani, Mark Schmuckler

Perception-action:

- 9 Developmental Changes in Infants' Visual Attention to Pointing
Bennett Bertenthal, Ty Boyer

Joint attention:

- 10 Developmental Changes in Infants Interpretation of Eye Gaze as Goal-Directed
Aditi Deodhar, Ty Boyer, Weiwen Chen, Bennett Bertenthal

Language:

- 11 Another case of "less is more": Infants show more robust generalization from a few examples than from many examples
LouAnn Gerken, Nicole Szivek
- 12 Developmental Timing of Contextual Support in Infant Word Learning
Elizabeth Goldenberg, Catherine Sandhofer
- 13 Tell me What the Future Holds: Children Differentiate the Normative Structure of Predictions and Imperatives
Karoline Lohse, Maria Graefenhain, Tanya Behne, Hannes Rakoczy

Friday

- 14 You don't sound like me, you must not look like me either: Do infants expect unfamiliar language to be associated with dissimilar others?
Lillian May, Janet Werker

Segmentation:

- 15 Twelve-month-olds segment words from continuous speech in the face of non-native suprasegmental features
Karen Mulak, Catherine Best, Michael Tyler, Christine Kitamura
- 16 Mommy's Role in Speech Segmentation
Michelle Sandoval, Rebecca Gomez
- 17 11-month-olds use function words to segment vowel-initial words
Yun Jung Kim, Megha Sundara

Speech Perception:

- 18 Do Toddlers Accommodate Unfamiliar Accents?
Marieke van Heugten, Elizabeth Johnson
- 19 English-speaking toddlers do not have a consonant bias for learning words in an interactive task
Claire Delle Luche, Caroline Floccia, Thierry Nazzi, Jacqueline Turner, Silvana Poltrock
- 20 Infants' and toddlers' ability to use gender as a cue to stream segregation
TeHsin Wu, Giovanna Morini, Sarah McCrudden, Rochelle Newman

Vocabulary development:

- 21 Explaining individual differences in early vocabulary development: A longitudinal study from 9 to 18 months
Michelle McGillion, Jane Herbert, Julian Pine, Marilyn Vihman, Tamar Keren-Portnoy, Danielle Matthews
- 22 Linking Early Language Experience to Processing Efficiency in Low- and High-SES Spanish-Learning Infants in the U.S. and Mexico
Nancy Otero, Nereyda Hurtado, Adriana Weisleder, Anne Fernald

Action perception:

- 23 Infants selectively learn from inanimate agents in dynamic displays
Ivanina Henrichs, Birgit Elsner

Bilingualism:

- 24 The Effect of Bilingualism on Memory Specificity for 18- and 24-month-olds
Natalie Brito, John Shuler, Hannah Frank, Rachel Barr

Categorization:

- 25 Can infants categorize familiarity and learn an intrinsic rule?
Volker Ressel, Núria Sebastián-Gallés

Cognition:

- 26 The effect of representational strength on verbal updating in 19- and 24-month-olds.
Martyna Galazka, Patricia Ganea

Cortisol:

- 27 Emotional and Physiological Arousal Exhibit Differing Effects on Infant Cortisol Reactivity During Learning Events
Laura Thompson, Gin Morgan, Lee Anna Covey, Arryn Robbins

Executive functioning:

- 28 Effortful Control as an Information Funnel for Short-Term Recall at 21 Months
Wallace Dixon, Ashley West, Wanze Xie, Leslie Patton, Elizabeth Johnson

Eye-tracking:

- 29 Are we Looking at the Same Thing? Eyetracking Infants and Adults During an Imitation Demonstration
Gemma Taylor, Jane Herbert

Featural processing:

- 30 Infants' Understanding of Shape's (un)Reliability for Object Reasoning
Rebecca Woods, Jena Schuler

Friday

Feeding/feeding problems:

- 31 Do Breastfed Infants Learn Better? Influences of Infant Temperament and Cortisol Reactivity
Gin Morgan, Laura Thompson, Melissa Stauble

Working memory:

- 32 Color-Location Binding in Infants' Visual Short-Term Memory
Heidi Baumgartner, Steven Luck, Lisa Oakes
- 33 The Development of Short-Term Memory in Human Infants
Vidda Moussavi, Rochelle Newman

Physical reasoning:

- 34 Infants' Knowledge about Rigid and Compressible Objects in Containment Events: Evidence from an Action Task
Evelyn Bertin, Miriam Dittmar
- 35 The effect of prior video viewing experience on infants' looking to a televised impossible event
Gabrielle Strouse, Amy Needham, Georgene Troseth

Prosocial behavior:

- 36 Eighteen-Month-Olds Prefer to Help In-Group Over Out-Group Members
David Buttelmann, Patricia Brosseau-Liard, Malinda Carpenter, Michael Tomasello

Segmentation:

- 37 Assessing Infants' Hierarchical Action Segmentation
Kara Sage, Robbie Ross, Dare Baldwin

Self concept/self awareness:

- 38 Can young infants be aware of the self-conducted volitional movement on a computer display?
Hideyuki Takahashi, Michiko Miyazaki, Hiroyuki Okada, Takashi Omori

Social cognition:

- 39 Young Children Understand Entitlement
Marco Schmidt, Hannes Rakoczy, Michael Tomasello
- 40 What do I Need or What Do We Need? Young Children's Understanding of the Role Structure of Cooperative Activities
Maria Graefenhain, Hannes Rakoczy
- 41 Infants' preferences are influenced by their observations of others via video
Laura Hennefield, Lori Markson

Social perception:

- 42 The Effect of Exposure on Infants' Perception of the Goal-Directed Actions of Other-Race Individuals
Jung-eun Yun, Jessica Sommerville

Statistical learning:

- 43 Infant Learning of Ordinal Sequential Relations in the Absence of Statistical Cues
David Lewkowicz
- 44 Do Speech Sounds Help Young Infants Learn Shape Pairs?
Lauren Burakowski, Scott Johnson
- 45 Infants' Visual Statistical Learning: Sensitivity to Transitional Probabilities and Stimulus Complexity
Lauren Krogh, Scott Johnson

Moral development:

- 46 The social context of helping in the second year of life
Audun Dahl, Rachel Schuck, C. Hung, Joseph Campos

Mother-child relations:

- 47 Maternal sensitivity and attachment security in infancy: Relations to subsequent child prosocial, externalizing, and internalizing behaviors in preschool
Marie Deschênes, Célia Matte-Gagné, Stéphanie Bordeleau, Annie Bernier

Parental attitudes:

- 48 Parenting Attributions and Self-Perceptions among South Korean, Korean American, and European American Mothers
Marc Bornstein, Linda Cote, Yoonjung Park

Parent-child communication:

- 49 Parent-child Conversations About Mental States and Children's Social Understanding: Evidence From a Pacific Island Context
Mele Taumoepeau, Elaine Reese
- 50 Parent-Toddler Verbal Communication in Mexican American Families: Implications for Children's Gender Role Development
Paige Lechner, Emilie Yeakel, Eric Lindsey, Yvonne Caldera

Parent-child relationships:

- 51 Marital conflict and children's behavior problems: Early exposure and later maladjustment
Bharathi Zvara, Martha Cox

Social cognition:

- 52 Expectations of Fairness in 9-month-old Infants
Stephanie Sloane, Renee Baillargeon
- 53 Helping in toddlers and infants as norm acquisition
Rodolfo Cortes Barragan
- 54 Infants use Social Information Rather than Appearance Information as the Basis for Behavioral Generalizations
Lindsey Powell, Elizabeth Spelke

Social interaction:

- 55 The relationship between maternal responsiveness and prelinguistic social communicative abilities
Amber Dewey, Julie Gros-Louis
- 56 Frequency of Premature Infant Engagement and Disengagement Behaviors During Two Maternally Administered Interventions
Rosemary White-Traut, Teresa Wink, Tali Minehart, Diane Holditch-Davis

Family processes:

- 57 Prenatal Coparenting Predictors of Postnatal Coparenting: The Role of Infant Temperament and Marital Quality
Regina Kuersten-Hogan, Kirsten Chirichetti, Melysa Faria

Family relationships:

- 58 Mothers' physical activity and physiological regulation during the postpartum period
Rachel Hutt, Ginger Moore, Micah Mammen

Father-child relations:

- 59 Temperament and Parental Bonding Relate to Fathers' Responsiveness in Father-Infant Interactions
Jacquelyn Nardelli, Maria Kalpidou

Parental attitudes:

- 60 Toddlers' Emotional Behavior is Related to Their Bayley Performance and the Accuracy of Their Mothers' Performance Predictions
Darcey Powell, Katherine Karraker, Priscilla Coleman

Parent-child relationships:

- 61 Infant Sleeping Arrangements, Infant Attachment, and Maternal Emotional Availability During the First Year of Life
Mina Shimizu, Bo-Ram Kim, Douglas Teti

Parent-infant interaction:

- 62 Examining Limit Setting Contexts in an Ethnic Minority Sample: Implications for Intervention and Treatment
Erica Rosenthal, Miriam Steele, Howard Steele, Anne Murphy
- 63 Reactions by Mothers and Fathers to their Infant's Negative Emotions and Toddler Emotional Expressivity
Leslie Frankel, Nancy Hazen, Deborah Jacobvitz, Edward Anderson, Sheryl Hughes

Friday

- 64 Exploring a Transactional Model of Caregiver Emotional Availability and Infant Pain-related Distress
Lauren Campbell, Nicole Racine, Laila Din Osmun, Rebecca Pillai Riddell, Saul Greenberg, Hartley Garfield

Prosocial behavior:

- 65 Socialization of prosocial behavior: How parents encourage their toddlers to help
Whitney Waugh, Pollock Brianna, Margarita Svetlova, Sara Nichols, Celia Brownell

Social referencing:

- 66 Sources of Variability in Maternal Behavior During Social Referencing Interactions
Miranda Goodman-Wilson, Emily Newton, Ross Thompson

Television:

- 67 Relations Among Early Television Exposure, Parental Supervision During that Exposure, and Temperament
Deborah Linebarger, Rachel Barr, Jessica Piotrowski, Matthew Lapierre, Jenna Finch

Temperament:

- 68 Infants in US and Spain: Examination of laboratory observations and parent-report of temperament.
María Gartstein, Jose Carranza, Carmen González-Salinas, Ester Ato, María Galián, Nora Erickson, Natalia Potapova
- 69 A Longitudinal Evaluation of Differences between Dutch and American Infants in Fine-Grained Aspects of Temperament
Samuel Putnam, Roseriet Beijers, Maria Gartstein, Carolina de Weerth, Conny Kirchhoff
- 70 The Development of Early Profiles of Temperament: Characterization, Continuity, and Etiology
Charles Beekman, Jenae Neiderhiser, Kristin Buss, Jody Ganiban, Leslie Leve, Daniel Shaw, David Reiss

Friday, 4:45 pm - 5:15 pm

(Event 2-039) ISIS Business Meeting and Awards Presentation

Minneapolis Grand Ballroom Salon ABC
Friday, 4:45 pm - 5:15 pm

Friday, 5:30 pm - 6:30 pm

(Event 2-039.5) Presidential Address
Minneapolis Grand Ballroom Salon ABC
Friday, 5:30 pm - 6:30 pm

Infant Learning: Continuous, Incremental, and Progressive - or not?

Chair: David Lewkowicz,
Past President of ISIS,
Florida Atlantic University

Speaker: Richard Aslin,
ISIS President, University
of Rochester

Abstract. Human infants are powerful learning machines that acquire enormous amounts of information about the world, including themselves, in a remarkably brief period of development. These learning efficiencies are influenced by a set of constraints, both internal (processing biases) and external (distributional biases), some of which are species- and domain-specific. The nuances of these constraints and their implications for drawing conclusions from studies of infant learning at the behavioral, computational, and neural levels will be discussed.



Friday, 6:30 pm - 8:00 pm

(Event 2-041) Reception

Minneapolis Foyer
Friday, 6:30 pm - 8:00 pm

Presidential Reception

All attendees are invited to this event. Honor ISIS 2012 Award recipients, enjoy refreshments, and attend the evening poster session. Cash bars will be available.

Friday

(Event 2-040) Poster Session 8

Minneapolis Grand Ballroom Salon D
Friday, 6:30 pm - 8:00 pm

Motor development:

- 1 Postural Control in Full Term and Preterm Infants: Preliminary Analysis of a Longitudinal Study
Stacey Dusing, Theresa Izzo
- 2 Reaching With the Mouth: An Early Expression of Visually Guided Reaching in Infants
Afra Foroud, Ian Whishaw
- 3 What Is the Role of Sleep in Toddlers' Motor Learning?
Sarah Berger, Anat Scher
- 4 The impact of SES on goal-setting behavior in infants
Kathryn Barich, Melissa Clearfield

Object exploration:

- 5 Strategy Type: Consistently Correct and Consistently Incorrect During a Tool-Using Task
Sara Redahan, Björn Kahrs, Wendy Jung, Jackleen Leed, Jeffrey Lockman

Parent-infant interaction:

- 6 Infant Sensory Processing and Mothers' Postpartum Depressive Symptoms
Micah Mammen, Ginger Moore, Rachel Hutt, Eran Auday

Perception-Action:

- 7 Exploration of the Novelty Effect in Infants
Ludger van Dijk, Paul Leseman, M.(Chiel) Volman, Evelyn Kroesbergen
- 8 Contributions of Early Perceptual Experiences to Cognitive and Fine Motor Outcome in Typical and Atypical Children
Ana Carolina de Campos, Nelci Adriana Rocha

- 9 Problem-Solving in the Dark: How Infants Use Perceptual Information in Search-Tasks
Niusha Ghazban, Jean-Paul Boudreau, Sofia Puente-Duran, Sabrina Aimola

Walking:

- 10 Planning walking and reaching paths by toddlers
Sabine Hunnius, Yvette Verlaan, David Rosenbaum
- 11 Consequences of acquisition of upright locomotion: posture, emotion and language
Minxuan He, Joseph Campos, David Anderson

Action perception:

- 12 Action Perception in Young Children: The Anticipation of the Goal-Directed Behavior of Two Agents
Manja Attig, Wolfgang Prinz, Moritz Daum
- 13 Action-scanning and language-acquisition patterns in human infants
Masahiro Imafuku, Masako Myowa-Yamakoshi

Face processing/perception:

- 14 Dynamic presentation alters infants' scanning of faces but not recognition: Eye tracking evidence
Naiqi Xiao, Liezhong Ge, Paul Quinn, Olivier Pascalis, Kang Lee
- 15 Dynamic Presentation Augments Infants' Intermodal Knowledge of Males
Erica Noles, Andrea Kayl, Jennifer Rennels
- 16 Discrimination of Adult and Infant Faces in 3- to 9-month-old Infants: First Evidence for a Narrowing Toward Adult Faces
Macchi Cassia Viola, Hermann Bulf, Valentina Proietti, Marta Picozzi

Perception-Action:

- 17 Is interval timing learned, memory-based and embodied?
Caspar Addyman, Robert French, Denis Mareschal, Elizabeth Thomas

Friday

- 18 ERPs of Goal Detection in 7 Month-Old Infants: A Lesson Learned From Complete, Incomplete and Senseless Actions
Maria Schönebeck, Birgit Elsner

Perception:

- 19 Do you see what I see? Comparing optic flow experienced by infants and their mothers
Rick Gilmore, Florian Raudies, Kari Kretch, John Franchak, Karen Adolph

Search:

- 20 Landmarks in Object Displacement Tasks
Diane Marie Mangalindan, Mark Schmuckler

Speech perception:

- 21 New perspectives in infant speech perception based on the processing of modulation cues
Laurianne Cabrera, Christian Lorenzi, Josiane Bertoncini

Language:

- 22 Word Recognition at 20 Months is Flexible and Efficient
Elika Bergelson, Daniel Swingley
- 23 Semantic priming in the auditory modality in 18-month-olds
Claire Delle Luche, Samantha Durrant, Caroline Floccia, Kim Plunkett, Jacqueline Turner
- 24 Acquisition of non-adjacent phonological dependencies in the first year of life: Consonant vs. Vowel dependencies
Nayeli Gonzalez Gomez, Thierry Nazzi

Parent-infant interaction:

- 25 The SPRINT Project - Parental Language Input and Young Children's Vocabulary Development
Christine Cox Eriksson, Eva Berglund, Ulla Sundberg

Perceptual categories:

- 26 Distributional learning of phonemes in monolingual and bilingual infants
Christopher Fennell, Tamara Hudon, Meghan Spring

Speech perception:

- 27 Duration cues in speech are salient for French-learning 6-month-old infants
Nawal Abboub, Anjali Bhatara, Annika Unger, Natalie Boll-Avetisyan, Barbara Höhle, Thierry Nazzi

- 28 9-to-12-month-old children's ability to map a category of words to a referent
Alberto Falcón, Elda A. Alva Canto, Antonio Franco

Word learning:

- 30 Dynamics of Visual Attention and Cross-situational Word Learning
Alexa Romberg, Linda Smith, Chen Yu
- 31 Sound Symbolism Scaffolds Word-Objects Mapping in 14-month-olds
Michiko Miyazaki, Mutsumi Imai, Sotaro Kita, Henny Yeung, Hiroyuki Okada
- 32 Infants Benefit from Developmentally Appropriate Infant-directed Speech
Laurel Fais, Janet Werker
- 33 Young children's ability to learn and remember a new word learned from a direct interaction versus an overheard interaction
Rachel Schwartz

Habituation:

- 34 Gestational Age, Birth Order, and Primary Caregiver Education as Predictors of Infant Habituation to Audiovisual Stimuli
Sarah Salomon, Melanie Spence, Kristin Atchison

Nonhuman/comparative studies:

- 35 Chimpanzees (*Pan Troglodytes*) and Bonobos (*Pan Paniscus*) Exhibit Divergent Spatial Memory Development
Alexandra Rosati, Brian Hare

Friday

Number:

- 36 Not all continuous dimensions map equally:
Number-Brightness mapping in infants
Lola de Hevia, Elizabeth Spelke

Object concept:

- 37 Sound Enhances 10-Month-Olds' Attention
to Object Color
Rebecka Lohse, Rebecca Woods

Object perception:

- 38 Infants' Long-Term Memory of Occluded
Shapes
Scott Adler, Leah Direnfeld

Television:

- 39 The Effect of Formal Features on Infants'
Attention and Learning From Television
Marcos Sastre, Emily Bushnell

Learning:

- 40 Toddlers' Object Retrieval Using In-Person
Versus Video Displays: An Eye Movement
Study
*Heather Kirkorian, Heather Lavigne,
Katherine Hanson, Lindsay Demers,
Georgene Troseth, Daniel Anderson*

Television:

- 41 The Influence of Television on Young
Children's Toy Play
*Katherine Hanson, Heather Lavigne, Daniel
Anderson*

Visual recognition memory:

- 42 Infants' Memory for Faces: Associations
Between Eye-tracking and
Electrophysiological Responses
*Christine Motley, Jennifer Wagner, Agatha
Norwood, Charles Nelson*

Working memory:

- 43 Extreme Featural Loss in Infants' Object
Chunking
Rebecca Rosenberg, Lisa Feigenson

- 44 Measuring Capacity and Resolution in
Children's Spatial Working Memory
*Dominic Gibson, Emma Schmitt, Jonathan
Flombaum, Lisa Feigenson*

Physical reasoning:

- 45 Infants Expectations About Objects
Interacting With Liquids
*Jennifer Piemonte, Susan Hespos, Lance
Rips*

- 46 From occlusion to burying: Carryover effects
with unfamiliar events in young infants
Audrey Kittredge, Renee Baillargeon

Social cognition:

- 47 Are You Strong Enough to Be My Mate?
Young Children Selectively Choose Partners
in Cooperative Activities
*Maria Graefenhain, Kristin Studte, Anna-
Maria Zeyen, Hannes Rakoczy*

- 48 Observed Human Actions, and not
Mechanical Actions, Induce Searching
Errors in Infants
*Yusuke Moriguchi, Reiko Matsunaka, Shoji
Itakura, Ikuko Shinohara, Kazuo Hiraki*

Statistical learning:

- 49 How Amodal is Statistical Learning?
Comparing Learning Across Visual and
Auditory Perceptual Modalities in Infancy
*Lauren Emberson, Jennifer Misyak, Jennifer
Schwade, Morten Christiansen, Michael
Goldstein*

- 50 Infants Learn Spatial and Temporal Visual
Relations From Directional Statistics
*Kristen Swan, Dima Amso, Natasha
Kirkham*

Temperament:

- 51 Dropout in Visual Habituation Paradigms:
The Role of Infant Temperament
*Daniela Mink, Anne Henning, Gisa
Aschersleben*

Friday

52 The Association between Language Skills and Behavioral Inhibition in Toddlerhood
Ashley Smith, Deepika Patel, Soo Rhee, Robin Corley, Naomi Friedman, John Hewitt

Theory of Mind:

53 The Relation Between Theory of Mind and Executive Functioning in 18-month-old Infants
Jessica Yott, Diane Poulin-Dubois

54 Theory of mind reasoning and executive function: the role of self-perspective inhibition
Ella Fizke, Dana Barthel, Kim Gaertner, Katharina Naber, Thomas Peters, Hannes Rakoczy

Word learning:

55 Body Parts Correlates of Early Abstract and Concrete Verbs
Josita Maouene, Nitya Sethuraman, Aarre Laakso, Mounir Maouene

56 Lexical semantic priming in 2-year-olds: A new approach to testing novel word representations
Erica Wojcik, Jenny Saffran

Parenting:

57 Infant Temperament Moderates the Link between Mothers' Emotional Availability during Infant Bedtimes and Attachment Security
Bo-Ram Kim, Hye-Young Rhee, Mina Shimizu, Gail Mayer, Douglas Teti

58 The Longitudinal Association Between Infant Temperament and Coparenting
Daniel Laxman, Sarah Mangelsdorf, Allison Jessee, Whitney Rossmiller-Giesing, Geoffrey Brown, Sarah Schoppe-Sullivan

Self regulation:

59 Early Signs of Attention Predict Preschool Executive Functioning: A Moderating Role for Attachment
Camille Cioffi, Jeffrey Measelle, Jennifer Ablow

60 Correlations between quasi-autistic symptoms and poor self-regulation in children adopted from institutions
Catherine Burrows, Megan Gunnar

Shyness:

61 Does Maternal Warmth and Encouragement of Independence Increase Shy Toddlers' Approach Behaviors Around New Peers?
Jessica Grady, Katherine Karraker, Darcey Powell

Social cognition:

62 Toddlers' Social Cognition in the Real World: Linkages, Modes, and Range of Abilities
Joan Test, Karen Kwok, Shiyi Chen, Mariko Kinoshita

63 Infants' Early Emotion Attributions.
Betty Repacholi, Hillary Rowe, Tamara Toub

64 The effect of emotional signals on infants' monitoring of social interactions
Szilvia Biro, Lenneke Alink, Marinus van IJzendoorn, Marian Bakermans-Kranenburg

Moral development:

65 Preverbal infants expect agents to perform egalitarian distributions of resources
Marek Meristo, Karin Strid, Luca Surian

66 Communicating differences between norms to 1-year-olds
Audun Dahl, Joseph Campos, Elliot Turiel

Measurement:

67 CLASS-Infant: Measuring Interactions Between Infants and Caregivers in a Center-Based Setting
Kristen Jamison, Jennifer LoCasale-Crouch, Sonia Cabell, Bridget Hamre, Robert Pianta

Saturday, 8:00 am - 9:00 am

(Event 3-003) Invited Speaker

Minneapolis Grand Ballroom Salon G
Saturday, 8:00 am - 9:00 am

Interdisciplinary approaches to studying risk in behavior and brain development: Early nutrition and brain development as a paradigm

Chair: Megan R. Gunnar, University of Minnesota
Speaker: Michael Georgieff, University of Minnesota

Abstract. The study of the effects of early experience on form-function relationships in the developing human brain necessitates an interdisciplinary approach spanning disciplines from molecular neuroscience through educational psychology. The burden of proof to demonstrate causality between early life risk factors and individual developmental outcome requires careful model building that bridges the "languages" inherent to each scientific discipline with a stake in the discussion. Approaches can be top-down or bottom-up and are often both. Cross-species models commonly used in such research should be developmentally sensitive and respect critical or sensitive windows of development. While precise understanding of form-function relationships in complex psychopathologies (eg, schizophrenia, autism) may still be far off, approaches that have been used in studies of early nutrition and brain development can serve as a model. In this talk, I will explore how interdisciplinary approaches are used to understand the role of nutrients that are critical for normal brain development. Basic nutrient-brain interaction principles include the roles of timing, dose and duration in determining developmental risk to brain structures and processes. The role of iron in the developing brain will be used as the primary example although the talk will highlight a number of nutrients that are important in early brain-behavior development.

Biography. Dr. Michael Georgieff is an internationally recognized expert on fetal and neonatal risk factors to the developing brain, and specifically the hippocampus. His career in this area has spanned more than 25 years and includes investigations of memory function in humans and in



rodent models. He generated the first genetic model of fetal /neonatal brain iron deficiency in order to elucidate the specific requirement of iron for neuronal development. His scientific approaches include conditional knock-out technology, neurometabolism, neuronal structural analysis, electrophysiology, gene expression and animal and human behavior. Dr. Georgieff received his BA in Psychology at Yale University in 1975, attended Washington University School of Medicine in St. Louis and did his post-doctoral work at the University of Pennsylvania and the Children's Hospital of Philadelphia. He joined the Pediatric faculty at the University of Minnesota in 1985 and the faculty of the Institute of Child Development in 1997. He is currently the Martin Lenz Harrison Land Grant Professor of Pediatrics, the head of the Section of Neonatology, and the Vice Chair of the Department of Pediatrics. He co-founded (with Dr. Charles Nelson) and directs (with Dr. Megan Gunnar) the University of Minnesota's Center for Neurobehavioral Development, an interdisciplinary research center with a team of 40 faculty members. The Center group spans 11 departments and 5 schools within the University and has expertise in multiple-level assessment of brain development from molecular neuroscience to educational psychology. He serves as an advisor to the Endocrinology, Nutrition and Growth Branch of NICHD. He has published over 130 research papers and has had continuous NIH funding for 20 years.

Saturday

Saturday, 8:00 am - 9:30 am

(Event 3-001) Paper Symposium

Marquette Ballroom Salon V
Saturday, 8:00 am - 9:30 am

Distress and Inflammation in Pregnancy and Its Impact on Fetal and Child Outcomes

Chair: Catherine Monk

- Elevated stress, distress, and inflammatory markers across gestation are predictive of poor pregnancy outcomes
Mary Coussons-Read
- Fetal Neurobehavioral Development: Evidence for Sex-Specific Effects of Maternal Immune Functioning
Catherine Monk
- Mother Prenatal Stress and Infant Immune Response
Marcia Winter, Tom O'Connor
- STRESS-RELATED MATERNAL-PLACENTAL-FETAL IMMUNE-ENDOCRINE INTERACTIONS IN HUMAN PREGNANCY: IMPLICATIONS FOR FETAL PROGRAMMING OF HUMAN HEALTH AND DISEASE RISK
Pathik Wadhwa

(Event 3-002) Paper Symposium

Marquette Ballroom Salon VI
Saturday, 8:00 am - 9:30 am

Early temporal dynamics of self-organization and interaction: New research approaches

Chair: Daniel Messinger

- The Dynamic Still-Face Effect: Do Infants Decrease Bidding Over Time When Parents are Not Responsive?
Naomi Ekas, Daniel Messinger
- Dynamic Reorganization of Infant-Caregiver Interactions following a Still-Face Perturbation - a Dynamic Systems Analysis
Akhila Sravish, Ed Tronick, Marjorie Beeghly
- 'Are you in a good mood?': Consistent patterning of affective expressions in time
Daniel Messinger, Beatrice Beebe, Naomi Ekas, Sanghan Lee, Alan Fogel

- Self-regulation is dependent on partner influence: The dyad as the unit of analysis
Beatrice Beebe, Daniel Messinger, Lorraine Bahrack, Amy Margolis, Sara Markese, Henian Chen, Karen Buck, Patricia Cohen, Joseph Jaffe

(Event 3-004) Paper Symposium

Marquette Ballroom Salon IX
Saturday, 8:00 am - 9:30 am

Learning in a world of uncertainty: Infants use probabilistic inferences to guide their actions

Chair: Anna Waisman

- Single-event probabilistic inference guides 10- to 13-month-old infants' choice behavior
Stephanie Denison, Fei Xu
- Probabilistic causal inference in 24-month-olds
Anna Waisman, Andrew Meltzoff, Alison Gopnik
- Infants use statistical data to infer the cause of their failed actions
Hyowon Gweon, Laura Schulz

(Event 3-005) Paper Symposium

Marquette Ballroom Salon VII
Saturday, 8:00 am - 9:30 am

Mapping the acoustic landscape of IDS: What are its implications for learning?

Chair: Suzanne Curtin

- Comparing distributional regularities in speech directed to infants and adults
Suzanne Curtin, Lori Holt, April Murphy, Dan Hufnagel
- Statistical learning of phonetics categories in infancy and infant directed speech: Is phonetic enhancement consistent, intentional and helpful?
Bob McMurray, Kristine Kovack-Lesh, Dresden Goodwin, Dan McEchron
- Speech Sound Frequency and Speech Sound Discrimination
James Morgan, Jie Ren
- Multisensory and Emotive Characteristics of Infant-Directed Speech Promote Infants' Attention and Language Learning
Robin Panneton

Saturday

(Event 3-006) Paper Symposium

Marquette Ballroom Salon III
Saturday, 8:00 am - 9:30 am

The Multiple Determinants of Parenting Revisited: Adult Attachment, the Big 5, and Child Temperament

Chair: John D. Haltigan

- Self-Reports of Adult Attachment and Mothers' Cognitive and Emotional Responses to Infant Distress
John Haltigan, Esther Leerkes
- Maternal and Paternal Personality Characteristics and Child Temperament as Predictors of Parenting during Toddlerhood
Diane Lickenbrock, Cynthia Stifter
- Parenting Attributions during Toddlerhood as a Moderator of the Association of Personality to Parenting
Cynthia Smith, Emily Goins, Kimberly Day
- Maternal perception of the child via EEG responses to the photo: A case study of three major AAI classifications
Kazuko Behrens

(Event 3-007) Paper Symposium

Marquette Ballroom Salon IV
Saturday, 8:00 am - 9:30 am

The Relation between Motor and Language Development and Skills in Typical and Atypical Development

Chair: Ora Oudgeneog-Paz

- Exploring language: Exploration behaviour and language development in typically developing children
Ora Oudgeneog-Paz, Paul Leseman, M.(Chiel) Volman
- Embodied Language in Preschool Children with Autism Spectrum Disorder
Annika Hellendoorn
- Embodied cognition: A new look from spinal muscular atrophy
James Rivière
- Oral motor difficulties and the relationship to speech and language development in children with Down syndrome
Adam Goody, Katie Alcock

(Event 3-008) Paper Symposium

Marquette Ballroom Salon VIII
Saturday, 8:00 am - 9:30 am

The application of spatial cueing paradigms in studying infants' social-cognitive development

Chair: Moritz M. Daum

- Gaze following: A case for referential communication?
Atsushi Senju
- Human dynamic pointing gesture triggers shifts of visual attention in young infants
Katharina Rohlfing, Matthew Longo, Bennett Bertenthal
- Motion cues evoke anticipatory shifts of covert attention during action observation
Caroline Wronski, Moritz Daum
- The neural basis of reaching comprehension
Marta Bakker, Moritz Daum, Andrea Handl, Gustaf Gredeback

Saturday, 9:45 am - 11:15 am

(Event 3-009) Paper Symposium

Marquette Ballroom Salon VI
Saturday, 9:45 am - 11:15 am

Domain-General Perspectives on Generalization

Chair: Yevdokiya Yermolayeva

- Intermodal transfer during word learning
Mélanie Havy, Afra Foroud, Janet Werker
- Infants' Learning of Second-Order Correlations Within the First Two Years of Life
Yevdokiya Yermolayeva, David Rakison
- Building knowledge over time: How repetition and change matter for generalization
Caitlin Fausey, Linda Smith
- Category Learning in Infancy: What Develops
Vladimir Sloutsky, Catherine Best, Christopher Robinson

Saturday

(Event 3-010) Paper Symposium

Marquette Ballroom Salon V
Saturday, 9:45 am - 11:15 am

Genetic Risk, Brain Responses, and Family Context: A Multi-Level Approach to Parental Psychopathology in the Perinatal Period

Chair: *Wonjung Oh*

- Infant DRD4 Genotype, Maternal Behavior, and Gene x Environment Interaction as Predictors of Offspring Behavior Problems
Maria Muzik, Katherine Rosenblum, Cecilia Martinez-Torteya, Ellen Waxler, Patricia Richardson, Amanda Broderick, Alexandra Busuito, Emily Alfafara, Tony King, Israel Liberzon
- Psychopathological Risk Affects Maternal Brain Responses to Baby Stimuli
James Swain, S. Ho, Katherine Rosenblum, Eric Finegood, Patricia Richardson, Sheila Marcus, Leyla Akce, K. Phan, Maria Muzik
- Trajectories of Maternal and Paternal Depression Following the Birth of a Second Child
Brenda Volling, Tianyi Yu, Richard Gonzalez, Wonjung Oh, Elizabeth Thomason

(Event 3-011) Paper Symposium

Marquette Ballroom Salon III
Saturday, 9:45 am - 11:15 am

Perceptual Narrowing: Moving Beyond Unisensory Decline

Chair: *Ross Flom*

- The Importance of Experience in Unisensory and Multisensory Narrowing in Infancy
David Lewkowicz
- New Explorations in Facial Identity Discrimination: Implications for Perceptual Narrowing
Janet Frick
- Twelve-Month-olds' Discrimination of Monkey Faces: Evidence for Perceptual Narrowing?
Ross Flom
- Reversing perceptual narrowing in infants: Brief daily exposures to other-race faces for three weeks enhances other-race face recognition
Kang Lee, Gizelle Anzures, Andrea Wheeler, Paul Quinn, Olivier Pascalis, Alan Slater, Michelle Heron-Delaney, James Tanaka

(Event 3-013) Paper Symposium

Marquette Ballroom Salon IV
Saturday, 9:45 am - 11:15 am

Prenatal Adversity and Neurobehavioral Outcomes During Infancy

Chair: *Jeffrey Measelle*

- The effects of prenatal cocaine exposure and early adversity on vagal reactivity in early childhood
Elizabeth Conradt, Charles Bauer, Seetha Shankaran, Henrietta Bada, Toni Whitaker, Linda LaGasse, Jane Hammond, Barry Lester
- Functional brain connectivity in infant offspring of smoking and non-smoking mothers
Joel Nigg, Damien Fair, Corinne Stevens, Nakia Clay, Andrea O'Donnell, Cindy McEvoy
- Prenatal Depression and Stress Predicts Infant Cortisol Level and Reactivity
Jeffrey Measelle, Brianna Hailey, Heidemarie Laurent, Jennifer Ablow

(Event 3-014) Paper Symposium

Marquette Ballroom Salon VII
Saturday, 9:45 am - 11:15 am

Relationships Between Infant Learning Abilities and Language Development

Chair: *Jill Lany*

- Infant Statistical Learning and Segmentation Skills, and their Relation to Later Language Skills
Rochelle Newman, Nan Ratner, Giovanna Morini, Lisa Tuit
- The Structure in Vocabulary
Linda Smith, Nicole Beckage
- Infants' Use of Probabilistic Phonological and Distributional Regularities Marking Grammatical Categories in Word Learning: Relationships to Language Proficiency
Jill Lany
- Infants' Integration Across Domains is Fundamental to Language Learning
Daniel Swingley

(Event 3-015) Paper Symposium

Marquette Ballroom Salon IX
Saturday, 9:45 am - 11:15 am

**Temperament and Childhood Obesity:
Longitudinal Links Between Weight
Outcomes and Infant Negativity, Surgency,
and Self-regulation**

Chair: Stephanie Anzman-Frasca

- The Relationship Between Observed Infant Negativity and Weight Gain is Moderated by Early Parenting Self-efficacy
Stephanie Anzman-Frasca, Ian Paul, Leann Birch
- Parenting and Infant Temperament: Is the Use of Food to Soothe Infant Distress a Risk Factor for Infant Rapid Weight Gain?
Cynthia Stifter, Kameron Moding, Diane Lickenbrock
- Predicting Weight Outcomes in Early Childhood: The Role of Toddlers' Self-regulation and the Temperament Dimension of Pleasure
Paulo Graziano, Rachael Kelleher, Susan Calkins, Susan Keane, Marion O'Brien, Cheryl Lovelady

(Event 3-016) Paper Symposium

Marquette Ballroom Salon VIII
Saturday, 9:45 am - 11:15 am

**The Baby in Context: Exploring Early
Learning Within More Natural Environments**

Chair: Natasha Kirkham

- The Typical Developmental Trajectory of Bottom-up Relative to Top-Down Influences on Gaze Direction
Dima Amso
- Learning With Noisy Visual Information in Infancy
Kristen Swan, Natasha Kirkham
- Generalizing Statistical Word Segmentation Across Speaker Variation
Katharine Graf Estes
- Statistical Word Learning From a First-Person Perspective
Daniel Yurovsky, Linda Smith, Chen Yu

(Event 3-012) Poster Session 9

Minneapolis Grand Ballroom Salon D
Saturday, 9:45 am - 11:15 am

Cognitive neuroscience:

- 1 Neural Underpinnings of Feedback Monitoring in Toddlers
Marlene Meyer, Sabine Hunnius, Denise Janssen, Ellen de Bruijn, Harold Bekkering
- 2 The Effect of Social and Non-Social Stimuli Upon Infant and Adult Frontal Electroencephalography (EEG) Asymmetries at Rest
Katharine Graham, Jackie Blissett, Satoshi Endo, Joseph McCleery

Cortisol:

- 3 Maternal Emotional Availability, Co-parenting Quality, Infant Temperament, and Infant Diurnal Cortisol at 3 Months
Lauren Philbrook, Alexia Hozella, Bo-Ram Kim, Douglas Teti
- 4 The Effects of Early Life Stress and Parenting Characteristics on Stress Physiology in Early Childhood
Camelia Hostinar, Jenalee Doom, Megan Gunnar
- 5 Infants' Attention Patterns to People and Objects: Longitudinal Relations to Cortisol and α -Amylase
Corrine Zavala, Kaya de Barbaro, Jacqueline Overton, Andrea Chiba, Gedeon Deák

Brain development:

- 6 Electrophysiological evidence of the influence of maternal FADS2 genotype on the memory abilities of breastfed 6-month-olds
Carol Cheatham

Developmental neurophysiology:

- 7 Functional Connectivity and Top-Down Regulation of Threat during Infancy
Martha Ann Bell, Anjolie Diaz, Jessica Kraybill, Stuart Marcovitch, Susan Calkins

Saturday

EEG/ERP:

- 8 Neuropsychological correlates of human-animal distinction: An ERP-study on early categorization with 4-month-old infants
Vesna Marinovic, Sabina Pauen
- 9 Comparing realistic head models for cortical source localisation of infant event-related potentials
Joseph McCleery, John Richards
- 10 Infants' Experience-Dependent Processing of Male and Female Faces: Insights From Eye-Tracking and Event-Related Potentials
Eliza Congdon, Alissa Westerlund, Giulia Righi, Sonya Troller-Renfree, Charles Nelson
- 11 Neurocognitive Developmental Outcomes in Opiate-Exposed Infants
Beth Logan, Nicole Heller, Deborah Morrison, Jonathan Paul, Hira Shrestha, Marie Hayes

Psychophysiology:

- 12 Salivary Alpha-Amylase and Cortisol Responding: Differential Relations to Risk, Parenting, and Effortful Control in Toddlerhood
Tracy Spinrad, Zoe Taylor, Michael Sulik, Sarah VanSchyndel, Nancy Eisenberg

Sleep:

- 13 Sleep Patterns at 18 months Predicted by Infant Respiratory Sinus Arrhythmia during the Still Face Paradigm at 6 months
Cathi Propper, Kristin Tully, William Mills-Koonce

Speech perception:

- 14 Neural Responses to Non-Native Speech Contrasts in Korean Infants
Eun Young Kim, Young-mi Jun, Hyo-rim Kim, Hyun-joo Song, Youngon Choi

Action perception:

- 15 Chopstick use by young children in China
Qi Li, Ashlei Peterson, Björn Kahrs, Jeffrey Lockman

- 16 Linguistic Age of Acquisition Effects on Action Prediction
Anja Gampe, Moritz Daum

Deaf/Hearing impaired:

- 17 Slower Visual Habituation in Deaf Infants: Evidence for Effects of Auditory Deprivation?
Carissa Shafto, Derek Houston, Tonya Bergeson

Face processing/perception:

- 18 The Study of Early Face Preferences in an Animal Model, The Domestic Chick (*Gallus gallus*)
Orsola Rosa Salva, Lucia Regolin, Giorgio Vallortigara
- 19 Three-month-old Infants' Representation of a Face: How is it Vulnerable to the Effect of an Extraneous Add-on element - a Hat?
Hermann Bulf, Eloisa Valenza, Chiara Turati
- 20 The Development of Face Space in Infancy
Lisa Parr, Jessica Taubert, Erin Robbins, Lauren Davis, Philippe Rochat, Peter Hancock

Self concept/self awareness:

- 21 "Where's your nose?" Developments in toddlers' body-part vocabulary in relation to self-other understanding
Whitney Waugh, Sara Nichols, Margarita Svetlova, Celia Brownell

Social perception:

- 22 Social Judgment on the Goal-Directed Actions of Self-Propelled Objects in 6-15 Month-Old Infants
Feng-Ming Tsao, Yi-Hsin Hsieh

Visual perception:

- 23 The Emergence of Binocular Rivalry in Infancy
Michael Kavšek, Elmira Marks

Saturday

24 With or without a hole: Young infant's sensitivity for detecting a change in topological versus geometric property
Sarina Hui-Lin Chien, Yun-Lan Lin, Ming-Kuan Lin, Lin Chen

Language:

25 The Influence of Acoustic Salience on 14-month-olds' Ability to Learn Minimal Pairs
Stephanie Archer, Suzanne Curtin

26 Ruling Out Non-adult Strategies in the Acquisition of Principle C
Michael Fetters, Megan Sutton, Jeffrey Lidz

27 19-month-olds use simple sentence-structure cues in verb learning
Kyong-sun Jin, Cynthia Fisher

Speech perception:

28 Early perceptual asymmetries in word-medial position: 6-month-old Dutch infants distinguish ompa from onta, but not vice versa
Sho Tsuji, Paula Fikkert

29 The development and basis of visual language preference in infancy
Nancy Ward, Megha Sundara

Visual perception:

30 Infants' Eye-Tracking of Fused vs. Mismatched Auditory/Visual Phonemes
Breon Tucker, Robin Panneton

Word learning:

31 What the Kids Are Watching: Infants' Attention to Labeling Events While Viewing Baby Media
Ashley Pinkham, Tanya Kaefer, Susan Neuman

32 Infants' Understanding of Familiar Nouns and Verbs in Different Contexts
Jie Chen, Maggie Ugolini, Tanya Burgess, Daniel Kessler, Christina Steinman, Helen Lee, Twila Tardif

33 Can this meek too?: Children Make Use of Tool Information During Verb Learning
Melissa Flores, Rebecca Zelaya, Rachel Schwartz, Jane Childers

34 The Role of Intonation in Word-Learning
Susanne Grassmann, Thomas Grünloh

35 iPhones, Blackberries, and Androids, oh my: The Effect of Interruption in Parent-Child Word Learning Interactions
Jessa Reed, Kathy Hirsh-Pasek, Roberta Golinkoff

Theory of Mind:

36 Opening a belief file and post-hoc belief inferences in infancy
Agnes Kovacs, Erno Teglás, György Gergely, Gergely Csibra

37 Young Infants Attribute to Others Knowledge Based on Memory and on Inference
Zijing He, Renee Baillargeon

38 Seven-Month-Old Infants can Understand Pointing Gestures as Goal-Directed when Some Linguistic Cue is Provided
Zi Hyun Lee, Hyun-joo Song, Min-young Kim

Tool use:

39 The cognitive basics of human tool use: Functional learning and knowledge transfer in 24-month-old toddlers
Sabrina Bechtel, Susanna Jeschonek, Sabina Pauen

Visual recognition memory:

40 Contextually guided visual search in infants
Joseph Burling, Justin Jerkins, Hanako Yoshida

Visuospatial:

41 Factors Affecting Infants' Representation and Memory of Spatial Locations
Catherine Bradley, Natalie Delgado, Algenys Name, Shannon Pruden

Saturday

Word learning:

- 42 Visual cues and learned object knowledge influence the selection of fit terms in Korean
Yeonjung Ko, Youngon Choi, Franklin Chang
- 43 When Less Structure in Language Can Help: Fast Mapping Non-Solid Substances
Sarah Kucker, Larissa Samuelson

Working memory:

- 44 Can Infants Play the "Memory" Game?
Zsuzsa Kaldy, Erik Blaser, Marisa Biondi
- 45 Can Infants Use Social Cues to Chunk Objects in Working Memory?
Aimee Stahl, Lisa Feigenson

Perception-action:

- 46 Motor Behavior During Free Game in 3 Years old Children Builds Up on Factors Involving Space Organization and Social Interaction
Patrizia Tortella, Guido Fumagalli, Fiorino Tessaro
- 47 How Young Children's Actions Influence Object Recognition
Meagan Yee, Susan Jones, Linda Smith, Karin James

Anxiety:

- 48 Increases in Anxiousness in Early Childhood Relate to Social Behavior during a Cooperation Task
Timothy Hall, Elizabeth Davis, Kristin Buss

Autism/autistic spectrum disorder/early diagnosis of autism:

- 49 Visual attention and pupil dilation to familiar and unfamiliar faces in 9-month-old infants at risk for autism spectrum disorder
Jennifer Wagner, Rhiannon Luyster, Samantha Sternschein, Helen Tager-Flusberg, Charles Nelson

Maternal sensitivity:

- 50 Maternal behavior during the strange situation procedure predicts child's reunion behaviors and the quality of attachment
Kazuko Behrens, Andrea Parker, John Haltigan
- 51 Maternal Sensitivity in the Strange Situation and Infant Attachment Behavior
Lois Muir, Lynne Koester, Laurel Yorgason

Parent-infant interaction:

- 52 Fluctuations in Infant Distress Alter Mother-Infant Self- and Interactive Contingency
Beatrice Beebe, Julia Reuben, Caroline Schiek-Gamble, Jacob Freeman, Daniella Polyak, Jennie Berman, Ella Bandes, Sanghan Lee, Karen Buck, Joseph Jaffe
- 53 Maternal Mind Attribution for Infants Predict Later Children's Joint Attention and Language Ability; Longitudinal Study
Ikuko Shinohara, Yusuke Moriguchi

Social cognition:

- 54 Do Social Preferences Influence Learning? Age-Related Differences in Imitation of Linguistic Group Members
Lauren Howard, Cristina Carrazza, Sengyeon Lee, Amanda Woodward
- 55 Parsing Intentional Action: A Study of Toddlers with Autism Spectrum Disorder
Julia Parish-Morris, Kathy Hirsh-Pasek, Roberta Golinkoff, Rachel Pulverman, Sarah Paterson

Still-face:

- 56 The Maternal Behaviors of Distressed Infants Who Discontinue the Double Face-to-Face Still-Face Paradigm
Shixin Fang, Cindy Liu, Yang Yang, Nancy Snidman, Ed Tronick

Temperament:

- 57 Different Forms of Temperamental Positivity and Parenting Style as Interacting Predictors of Resistance to Temptation in Toddlers
Larissa Gaias, Samuel Putnam

Saturday

- 58 Negative Infant Temperament, Parenting Stress, and Conflict in the First Year Predict the Quality of Parenting at Three Years
Brandon McDaniel, Mark Feinberg

Emotion regulation:

- 59 How and when does language skill influence anger expression in toddlerhood?
Caroline Roben, Pamela Cole, Laura Armstrong
- 60 Emotion Self-Regulation During Mother-Child Interactions in Infants and Preschoolers Across Several Contexts: Influence of Risk
Elana August, Dale Stack, Irene Mantis, Lisa Serbin, Jane Ledingham, Alex Schwartzman

Empathy:

- 61 Self-Regulatory Influences on Empathy: The Role of Soothability
Arianna Stefanatos, A. Rebecca Neal-Beevers, Bridget Gamber
- 62 Born to be sympathetic: Preverbal infants prefer victims and not aggressors
Yasuhiro Kanakogi, Yuko Okumura, Yasuyuki Inoue, Michiteru Kitazaki, Shoji Itakura

Parent-infant interaction:

- 63 Caregiver-Specific Dyadic Dynamics in Mother-Infant and Father-Infant Dyads Observed at 3 and 6 Months of Infant Age
Akhila Sravish, Ed Tronick, Marjorie Beeghly
- 64 The role of reflective functioning in predicting parenting quality
Allison Jessee, Sarah Mangelsdorf, Maria Wong, Geoffrey Brown, Sarah Schoppe-Sullivan
- 65 Direct and Interactive Effects of Mothers' Post-Partum Depression and Knowledge of Infant Development on Sensitive Parenting During Early Infancy
Juli Weiss, Laura Scaramella, Brenna Sapotichne, Jessica Grande

Parenting:

- 66 Gender Differences in Maternal Structuring in the Toddler and Preschool Years
Mary Lindeke, Pamela Cole
- 67 Emotional Relationships in Mother-Infant Firstborn and Secondborn Dyads: A Within-Family Study
Diane Putnick, Marc Bornstein, Joan Suwalsky
- 68 Parent-Infant Interactions in Low Income Minority Families
Chloe Zachary, Jenna Finch, Emily Oot, Laura Zimmermann, Susan Fenstermacher, Deborah Linebarger, Rachel Barr

Sleep:

- 69 Longitudinal Associations between Sleep and Symptoms of Worry/Separation Distress in Toddlers
Sunghye Cho, Kristin Buss

Social development:

- 70 Stress Regulation through Maternal Singing and Speech
Niusha Ghazban, Frank Russo, Sandra Trehub, Natalie Ein, Jean-Paul Boudreau

Saturday

Saturday, 11:15 am - 12:15 pm

(Event 3-018) Invited Speaker

Minneapolis Grand Ballroom Salon G
Saturday, 11:15 am - 12:15 pm

Towards a rational constructivist approach to cognitive development

Chair: Elizabeth Brannon, Duke University

Speaker: Fei Xu, University of California, Berkeley

Abstract. The study of cognitive development has often been framed in terms of the nativist/empiricist debate. Here I present a new approach to cognitive development -- rational constructivism. I will argue that learners take into account both prior knowledge and biases (learned or unlearned) as well as statistical information in the input; prior knowledge and statistical information are combined in a rational manner. Furthermore, there may be a set of domain-general learning mechanisms that give rise to domain-specific knowledge. I will present evidence supporting the idea that early learning is rational, statistical, and inferential, and infants and young children are rational, constructivist learners.



Biography. Fei Xu received her Ph.D. in Cognitive Science in 1995 from the Massachusetts Institute of Technology. She taught at Northeastern University and the University of British Columbia for a number of years. She is currently professor of psychology at the University of California, Berkeley. Her research

focuses on cognitive and language development in infants and young children. She has worked on object representations, concept acquisition, numerical cognition, word learning, social cognition, and other topics. In the last few years, she has begun to develop a rational constructivist approach to the study of cognitive development, in which learners take into account both prior knowledge and biases as well as the statistical information in the input. She also collaborates with computational cognitive scientists on developing computational models of cognitive development.

Saturday, 11:15 am - 12:30 pm

(Event 3-017) Dedicated Symposium

Minneapolis Grand Ballroom Salon ABC
Saturday, 11:15 am - 12:30 pm

Perceptual, Motor, Cognitive, and Social Development in Infants and Children (in honor of Rachel Keen)

Chairs: Karen E. Adolph¹, Elizabeth Spelke²
¹New York University; ²Harvard University

Discussants: Bennett I. Bertenthal¹, Richard Held²
¹Indiana University; ²Massachusetts Institute of Technology

- Tooling Around: The Development of Haptic-Based Actions in Young Children
Amy Joh, Duke University
- Auditory Perception: From Infant Orienting to Room Acoustics
Daniel Ashmead, Vanderbilt University
- From Spatial to Moral Compass in Development
Philippe Rochat, Emory University
- Rachel Keen: Perception, Action, and Representation
Herbert Pick, Institute of Child Development, University of Minnesota



Abstract: This symposium honors the contributions of Rachel Keen to research on perceptual, motor, cognitive, and social development in infants and children. We begin with words of appreciation from colleagues, Spelke,

Bertenthal, and Held, who will describe the important impact of Keen's work on diverse fields of study. Joh's presentation addresses a topic of profound interest to Keen—infants' and preschoolers' tool use in the context of problem solving—using new paradigms that investigate use of haptic information in assessing the utility of a tool. Litovsky's presentation on auditory learning and sensitivity represents Keen's research on audition; Litovsky describes effects of cochlear implants on infants' and children's spatial perception and auditory sensitivity. Rochat describes a developmental progression in social cognition, from shared visual attention, to empathic sharing, to the acquisition of a "moral compass." Pick relates his work on visual-proprioceptive recalibration in children to Keen's research on multi-modal perception.

Saturday

Saturday, 1:30 pm - 2:45 pm

(Event 3-021) Invited Symposium

Minneapolis Grand Ballroom Salon G
Saturday, 1:30 pm - 2:45 pm

Infants' Perception of Dialect and Accent

Chair: Thierry Nazzi, Université Paris Descartes

Discussant: Katherine White, University of Waterloo

- Discrimination of Dialect-Based Vowel Variants in 7- to 36-month-olds
Jennifer Phan¹, Derek Houston¹
¹Indiana University School of Medicine
- Accent on language development: Using dialects to trace how children come to recognize spoken words
Christine Kitamura¹, Catherine Best¹
¹MARCS Auditory Laboratories, University of Western Sydney
- Input matters: Speed of word recognition in toddlers receiving regular exposure to accented speech
Elizabeth Johnson¹, Sara Oczak¹
¹University of Toronto
- Exposure to Variability Supports Early Accommodation of Non-Native Pronunciations
Rachel Schmale¹, Alejandrina Cristia², Amanda Seidl³
¹North Park University; ²Max Planck Institute for Psycholinguistics; ³Purdue University

Abstract. Within a language, the acoustic/phonetic realization of linguistic sounds (the phonemes making up words) depends on many factors, including age, gender, speech rate but also the specific dialect of a native speaker, or the (foreign) accent of a non-native speaker. In the context of more and more infants growing up hearing more than one dialect/accent, the talks in this symposium will present findings on processing of dialect/accent information in infants during the first two years of life. The first talk presents data showing diphthong discrimination based on a dialect difference at 7 months, but not after 11 months, suggesting a developmental reduction in sensitivity to dialect differences. The second talk reports that infants' early preference for their native dialect disappears by 6/9 months, and that recognition of familiar words becomes less dependent on dialect between 15 and 19 months. The third talk shows that speed of word recognition is slower in 24-month-olds hearing a mix

of native and non-native accents compared to 24-month-olds mostly hearing native accent. The last talk presents data on new word learning in 24-month-olds, showing that it is easier to learn new words when hearing speech in own's native accent versus a foreign accent, and exploring the conditions under which infants can accommodate to the foreign accent. Taken together, these talks will provide information regarding the early processing of dialect/accent differences, deepening our understanding of how infants rapidly attain successful processing of native language speech sounds and spoken words.

Saturday, 1:30 pm - 3:00 pm

(Event 3-019) Paper Symposium

Marquette Ballroom Salon III
Saturday, 1:30 pm - 3:00 pm

Baby Signing: What difference does it make?

Chair: Brenda C. Seal

- Manual and Vocal Activity of Babies Exposed and Not Exposed to Baby Signing
Rory DePaolis, Brenda Seal, Holly Koegler, Yk An
- First Vocabulary Milestones in Babies Exposed and Not Exposed to Baby Signing
Yk An, Rory DePaolis, Michelle Brown, Brenda Seal
- Head-Turn Sign Preferences in Babies of Deaf Parents and Babies of Hearing Parents
Steven Kulsar, Brenda Seal, Caitlin Baird, Rory DePaolis

(Event 3-020) Paper Symposium

Marquette Ballroom Salon VI
Saturday, 1:30 pm - 3:00 pm

Declarative memory development in infancy and early childhood: Findings from experimental, neuroscientific and longitudinal studies

Chair: Thorsten Kolling

- How selective is deferred imitation? Evidence from experimental and eye-tracking studies
Gabriella Oturai, Thorsten Kolling, Monika Knopf
- Delayed imitation with change of contextual relevance reveals inflexible memory processes in early childhood
Ildikó Király, Dora Kampis, József Topál
- Inter-individual differences of deferred imitation: Measurement noise or differential development?
Thorsten Kolling, Monika Knopf, Claudia Goertz, Frauke Graf, Sonja Borchert
- Deferred imitation: Individual differences in early memory performance
Mikael Heimann

(Event 3-022) Paper Symposium

Marquette Ballroom Salon IV
Saturday, 1:30 pm - 3:00 pm

Integrating Fast-Mapping Into the Process of Word Learning

Chair: Sarah Kucker

- Word Knowledge and Vocabulary Experience: Referent Selection and Retention in Fast-Mapping
Sarah Kucker, Larissa Samuelson, Bob McMurray
- The Role of Partial Knowledge in Statistical Word Learning
Daniel Yurovsky, Damian Fricker, Chen Yu, Linda Smith
- A Crucial Role for Early Language Experience in the Development of Fast Mapping
Adriana Weisleder, Nereyda Hurtado, Nancy Otero, Anne Fernald
- The Development of Words on Two Time Scales
Karla McGregor

(Event 3-024) Paper Symposium

Marquette Ballroom Salon VII
Saturday, 1:30 pm - 3:00 pm

SHORT- AND LONG-TERM OUTCOMES OF INTERVENTIONS FOR PRETERM INFANTS IN THE NICU

Chair: Diane Holditch-Davis

- Tub Bathing Improves Thermoregulation of the Late Preterm Infant
Katherine Gregory, Cynthia Loring
- Factors Affecting Sleep Development of ELBW Preterm Infants following Hospital Discharge
Debra Brandon, Donna Ryan, Angel Barnes
- Reduced Healthcare Utilization at 6-weeks Corrected Age among Premature Infants after the H-HOPE Mother-Infant Developmental Intervention
Kathleen Norr, Rosemary White-Traut, Kristin Rankin, Susan Vonderheid
- MATERNAL PSYCHOLOGICAL AND INTERACTIVE EFFECTS OF ADMINISTERING INTERVENTIONS FOR THE PRETERM INFANTS IN THE NICU
Diane Holditch-Davis, Rosemary White-Traut, Janet Levy, Richard David, T. O'Shea, Victoria Geraldo

(Event 3-025) Paper Symposium

Marquette Ballroom Salon V
Saturday, 1:30 pm - 3:00 pm

Sophisticated Social-Moral Abilities in Early Development

Chair: Amrisha Vaish

- The Privileged Role of Mental States in Preverbal Infants' Sociomoral Evaluations
J Kiley Hamlin
- Young Children Go Below the Surface in Their Social-Moral Evaluations
Amrisha Vaish, Robert Hepach
- Morally-Relevant Theory of Mind: Children's Understanding of Intentionality
Kelly Mulvey, Melanie Killen
- Implicit Moral Reasoning in Preschoolers: Intention, Omission, and Group Membership
Katya Saunders, Alan Leslie

Saturday

(Event 3-026) Paper Symposium

Marquette Ballroom Salon VIII
Saturday, 1:30 pm - 3:00 pm

Take it or Leave it: How Cultural, Environmental, and Intrinsic Factors Shape Cognitive and Social Development

Chair: Klaus Libertus

- Manual and Visual Exploration of Objects in Six-month-old German and Cameroonian Infants
Gudrun Schwarzer, Bettina Lamm, Claudia Freitag, Claudia Goertz, Heidi Keller
- Object Exploration and Engagement in Infants at High Risk for Autism Spectrum Disorders
Klaus Libertus, Rebecca Landa
- Failed Action Understanding in the First Year: Developmental Milestones and Potential Mechanisms
Amanda Brandone
- Tracing Developmental Pathways in Early Word Learning and Object Recognition
Linda Smith

(Event 3-027) Paper Symposium

Marquette Ballroom Salon IX
Saturday, 1:30 pm - 3:00 pm

The Emergence of Infant Regulatory Capacity in the Context of Perinatal Depression

Chair: Lucia Ciciolla

- Infant Regulatory Capacity and Postpartum Depression: Cumulative Risk for Positive Parenting
Lucia Ciciolla, Keith Crnic, Linda Luecken, Nancy Gonzales
- Biological and Behavioral Processes of Emotion Regulation in Infants of Depressed Mothers
Cara Lusby, Matthew Rouse, Sherryl Goodman, Amanda Brown, Meaghan McCallum
- Quality of Parenting Moderates the Impact of Prenatal Maternal Depression on Infant Temperament
Matthew Rouse, Sherryl Goodman, Cara Lusby, Meaghan McCallum, Amanda Brown

(Event 3-023) Poster Session 10

Minneapolis Grand Ballroom Salon D
Saturday, 1:30 pm - 3:00 pm

Face processing/perception:

- 1 Exploring the other-race effect in Taiwanese infants and adults
Hsin-Yueh Hsu, Sarina Hui-Lin Chien
- 2 The Development of the Other-race Effect: A Comparison Between Populations.
Diana Su Tham, Gavin Bremner, Dennis Hay
- 3 The own-race advantage of face processing in Taiwanese infants: Rethinking the perceptual narrowing hypothesis
Sarina Hui-Lin Chien, Jing-Fong Wang, Hsin-Yueh Hsu

Object perception:

- 4 Selective monitoring of object features in communicative contexts by 9-month-olds: increased attention or genericity bias?
Marian Chen, György Gergely, Gergely Csibra
- 5 How do shape and color changes affect 4-month-old infants' perception of trajectory continuity?
J Gavin Bremner, Alan Slater, Scott Johnson, Uschi Mason, Jo Spring

Selective attention:

- 6 Comparing Conjunction and Feature Searches in 3-month-old Infants and Adults
Christina Fuda, Scott Adler
- 7 Selective Attention Promotes Category Learning Among 9-Month-Old Infants
Julie Markant, Dima Amso

Language:

- 8 Sound-Shape Congruency in Preverbal Infants
Ariel Starr, Elizabeth Brannon
- 9 Decreasing Sensitivity to Sound Symbolism from 9- to 25-Month-Old Dutch Children?
Karin van Usen, Paula Fikkert

Saturday

- 10 One-to-one biases in a non-linguistic and non-communicative domain: young children map novel animal vocalizations to unfamiliar animals
Kyle MacDonald, Ricardo Bion, Virginia Marchman, Nereyda Hurtado, Anne Fernald

Speech perception:

- 11 What do You Prefer to Hear; vek or gus? A Head Turn Preference Study with Dutch infants
Nienke Dijkstra, Paula Fikkert
- 12 Consonantal Specificity of Name Recognition in French- and English-Learning 5-Month-Olds
Camillia Bouchon, Claire Delle Luche, Caroline Floccia, Thierry Nazzi

Speech:

- 13 Beyond hyperarticulation: Explaining larger vowel spaces in infant-directed speech
Joy Wu, Alejandrina Cristia, Robin Panneton, Amanda Seidl
- 14 Infants' perception of infant vowels: A perceptual categorization study
Matthew Masapollo, Linda Polka, Lucie Menard

Statistical learning:

- 15 TRACX: A new connectionist model of statistical learning. (Now with added web simulator)
Caspar Addyman, Robert French, Denis Mareschal

Word learning:

- 16 Breaking Through the Traditional Model-- Exploring Different Exposure Approaches for Infants to learn second language words
Jie Chen, Allante Lumas, Twila Tardif
- 17 Infant Word Learning from Video: Contingency and the Organization of Attention in 16- to 18.5-Month-Olds
Sarah Edmunds, Jennifer Schwade, Michael Goldstein

- 18 Infants' learning of word-object relations: The role of social interaction
Yoko Hakuno, Takahide Omori, Jun-ichi Yamamoto, Yasuyo Minagawa-Kawai

- 19 The Role of Variability in Children's Phonological Learning
Carolyn Quam, LouAnn Gerken

Memory:

- 20 The Functional Consequences of Sleeping Like a Baby: Examining Relations between Infant Sleep Habits and Recall Memory in 10-Month-Olds
Helen Milojevich, Janice Phung, Angela Lukowski

Number:

- 21 The Development of Number and Area Acuity in Young Children
Darko Odic, Melissa Libertus, Lisa Feigenson, Justin Halberda
- 22 Toddler's Experiences in the World of Numeracy: the Mother's Contribution
Annelies Ceulemans, Annemie Desoete, Karel Hoppenbrouwers, Sofie Rousseau, Roeljan Wiersema
- 23 Infants' Sensitivity to Changes in Number Versus Surface Area
Melissa Libertus, Ariel Starr, Tiffany Williamson, Elizabeth Brannon

Object concept:

- 24 Five-month-old infants discriminate quantities of sand
Kristy vanMarle

Object perception:

- 25 Effects of Action on the Development of Object Constancy
Julia Li, Linda Smith, Susan Jones, Karin James
- 26 Young Infants Use Functional Information to Individuate Tools
Maayan Stavans, Renee Baillargeon

Saturday

Social cognition:

- 27 Infants' Understanding about Others' Disposition to Choose Objects from an Abstract Category
Shinchieh Duh, Su-hua Wang
- 28 Toward an interactive measure of social preferences in toddlers
Narges Afshordi, Lori Markson
- 29 Reds and Blues: An Examination of Ingroup Bias in Toddlers
Amy O'Neill, Valerie Kuhlmeier

Theory of Mind:

- 30 2.5-Year-Olds Show False Belief Understanding in a Non-Verbal Appearance-Reality-Task
Frances Buttelmann, Janina Suhrke, David Buttelmann
- 31 The appearance-reality distinction: spontaneous contrastives by young children
Christine Simonin, Mikkel Hansen

Parenting:

- 32 Attunement and attention-directing strategies
Alice Winstanley, Merideth Gattis
- 33 Structure and attention-directing in maternal caregiving
Florence Bristow, Alice Winstanley, Merideth Gattis

Social cognition:

- 34 Rethinking Children's Everyday Help: Often Active, Occasionally Unhelpful, and Guided by Parents
Stuart Hammond, Jeremy Carpendale
- 35 21-month-olds Expect Individuals to Punish Others Fairly
Stephanie Sloane, Renee Baillargeon

Social perception:

- 36 4.5-Month-Old Infants Prefer Nonsocial Over Social Events When Event Variability Is Manipulated
Lorraine Bahrick, James Todd, Monica Rodriguez, Barbara Sorondo, Janet Vasquez, Brittany Yusko
- 37 Infants judge speakers' likeability based on auditory input alone
Melissa Paquette-Smith, Elizabeth Johnson
- 38 The social reach; 8-month-olds' reaching is influenced by the presence of another person.
Veronica c mrs Ramenzoni, Ulf Liszkowski

Social referencing:

- 39 Infant Social Referencing and Their Response to Sadness
Hailey Love, Marianella Casasola

Social support:

- 40 Social Supports, Life Stress, and Emotional Availability in Mothers During the Early Transition to Parenthood
Hye-Young Rhee, Gail Mayer, Douglas Teti

Socialization:

- 41 The Effect of Negative Emotionality Four Months Postpartum on Socialization-Related Skills at Fourteen Months
Kayde Merrell, Lauren Laake, Harrison Lindner, Ashley Clemons, Minh Tran, Victoria Yopst, Leigha Johnson, Holly Schubert, Kate Oddi, David Bridgett

Theory of Mind:

- 42 Early Action Understanding and Joint Attention as Predictors of Theory of Mind Development
Claudia Thoermer, Beate Sodjan, Susanne Kristen, Hannah Perst

Saturday

Parent-infant interaction:

- 43 Cumulative Risk as a Moderator of the Association Between Intimate Partner Violence and Maternal Parenting Behaviors With Infants
Erin Gallagher, Alissa Huth-Bocks

- 44 Playing with Technology: Mother-Toddler Interaction and Toys with Batteries
Michaela Wooldridge, Jennifer Shapka

Parenting:

- 45 Do Toddlers with Early Behavior Problems Benefit from Low-Income Mothers' Internal State Language and Regulatory Supports?
Holly Brophy-Herb, Kathy Stansbury, Danielle Merckling, Melisa Welch, Ashley Minter, Young-Eun Lee, Neda Senehi, Tiffany L. Martoccio

- 46 Recollections of Fathers' Socialization of Emotions in Childhood Predicts Women's Physiological Responses to Crying Infants
Nicole Perry, Esther Leerkes

Sleep:

- 47 Early Child Temperament and Maternal Caregiving Style as Predictors of Later Sleep Problems in Young Children
Cathi Propper, Kristin Tully, William Mills-Koonce

Parenting:

- 48 A Longitudinal Process Analysis of Mother-Child Emotional Relationships in a Rural Appalachian European American Community
Joan Suwalsky, Marc Bornstein, Diane Putnick

Smiling:

- 49 Smile! Daily Exposure to Emotional Faces in Infancy and Adulthood
Nicole Sugden, Kristina Safar, Margaret Moulson

- 50 Duchenne Smiling in the Face-to-Face/Still Face
Whitney Mattson, Jeffrey Cohn, Mohammad Mahoor, Daniel Messinger

Social referencing:

- 51 Approach and Avoidance Motivation in Social-Referencing Contexts
Jessica Stubbs, Teresa Wilcox

Temperament:

- 52 Parental Concordance on the IBQ-R for Infants Aged 4-12 Months
Benjamin Bayly, Sarah Dunn, Avery Manning, Anna Sather, Maria Gartstein
- 53 The Influence of Infant Temperament and Maternal Parenting Behaviors on Infant Responses to Novel Food
Kameron Moding, Cynthia Stifter
- 54 Infant and Maternal Temperament Characteristics as Contributors to Parenting Stress in the First Year Postpartum
Kate Oddi, Lauren Boddy, Holly Schubert, Stephanie Driscoll, Kyle Murdock, Maria Gartstein, David Bridgett

Prematurity:

- 55 Early Language Processing Efficiency Measures Distinguish Preterm and Full Term Toddlers
Laura Barde, Virginia Marchman, Anne Fernald, Heidi Feldman
- 56 Mother Involvement in Preterm Infant Feeding During NICU Hospitalization and Early Post-Discharge Feeding Characteristics
Rita Pickler, Barbara Reyna, Marty Lewis, Lisa Brown
- 57 How Attention and Memory Work Together in Full- and Pre-term Infant Populations
Kelsi Kellen, Shannon Ross-Sheehy, Sammy Perone, John Spencer

Saturday

58 Early motor and cognitive development in preterms: Are General Movements linked to later differences in focused attention?
Gitta Reuner, Keun-Sun Kim, Anna Jebram, Katarzyna Wochner, Andrea Wittke, Joachim Pietz

59 Effects of Kangaroo Care on Breastfeeding of Preterm Infants
Kristin Tully, Diane Holditch-Davis, Janet Levy, Rosemary White-Traut, Richard David

60 Developmental, Temperament, and Parenting Outcomes in 12-Month-Old Moderately Preterm Children
Marjanneke de Jong, Marjolein Verhoeven, Anna van Baar

Substance use/abuse:

61 Regulatory Profiles in 13-Month Old Cocaine-Exposed Infants
Pamela Schuetze, Danielle Molnar, Rina Eiden

62 Maternal Depression: Effect on Maternal Perceptions of Infant Temperament in a Methadone-Exposed Sample
Nicole Heller, Beth Logan, Deborah Morrison, Hira Shrestha, Marie Hayes

63 Neurobehavioral Development and Head Circumference at 1 Month of Age in Methadone-Exposed Infants
Nicole Heller, Beth Logan, Deborah Morrison, Hira Shrestha, Marie Hayes

Temperament:

64 Infant Difficulty and Early Weight Gain: Does Fussing beget Feeding?
John Worobey, Jamila Pena, Isabel Ramos, Carolina Espinosa

65 Developing an Infant Feeding Intervention to Promote Healthy Growth: A Focus Group Study of Low-Income, Formula Feeding Mothers
Jennifer Savage, Cody Neshteruk, Michele Marini, Leann Birch

Parenting:

66 Early Maternal and Paternal Relationship-Focused and Exploration-Focused Engagement Predicts Toddler Adjustment
Sarah Lang, Sarah Schoppe-Sullivan, Claire Dush, Susan Johnson

Policy issues:

67 Mental Health Standards for Childcare Professionals in State Licensing Regulations
Sarah Lietzow, Darlene Carroll, Hasti Ashtiani, Rita Casey

Prosocial behavior:

68 Comparing Early Prosocial Behavior in Autism Spectrum Disorder and Typical Development
Kristen Dunfield, Laura O'Connell, Valerie Kuhlmeier, Elizabeth Kelley

Sleep:

69 Infant Sleep Difficulty, Prenatal Expectations for Infant Sleep, and Maternal Sensitivity at 12 Months Postpartum
Stephanie Parade, Ronald Seifer, Susan Dickstein

Smiling:

70 The Development of Anticipatory Smiling in Infants at Risk for Autism Spectrum Disorders
Devon Gangi, Daniel Messinger, Caroline Grantz, Brittany Lambert

Author Index

Abboub, Nawal
n.abboub@gmail.com
2-040 (27)

Abel, Katharina
katharina.abel@googlemail.com
1-016

Ablow, Jennifer C.
jcablow@uoregon.edu
1-025 (66), 1-031, 2-015, 2-025 (3),
2-040 (59), 3-013

Acar, Zeynep A.
zeynep@sccn.ucsd.edu
2-025 (11)

Ackerman, Dal
dalackerman2012@
u.northwestern.edu
1-033 (51)

Addyman, Caspar
c.addyman@bbk.ac.uk
2-040 (17), 3-023 (15)

Adler, Scott A.
adler@yorku.ca
1-009 (30), 2-040 (38), 3-023 (6)

Adolph, Karen E.
karen.adolph@nyu.edu
1-033 (8), 2-025 (20), 2-031,
2-040 (19), 3-017

Afshordi, Narges
afshordi@wustl.edu
3-023 (28)

Ahlf-Dunn, Sarah M.
sahlfdu@emich.edu
1-025 (59), 1-038 (54)

Ahola, Sara
sahola@yorku.ca
1-002

Aimola, Sabrina
sabrina.aimola@ryerson.ca
2-040 (9)

Akce, Leyla B.
leylabarakce@gmail.com
3-010

Al-Janabi, Fattma
fattma@googlemail.com
1-025 (27)

Albert, Rachel R.
rnr238@cornell.edu
1-025 (19), 1-038 (23), 2-009

Alcock, Katie
k.j.alcock@lancaster.ac.uk
2-031, 3-007

Alex, Marion
malex@stfx.ca
1-025 (51)

Alexander, Gerianne
galexander@tamu.edu
2-034 (7)

Alexander, John
john.alexander@abdn.ac.uk
1-004

Alfajara, Emily
emalfafa@med.umich.edu
3-010

Alink, Lenneke
ALINKLRA@FSW.leidenuniv.nl
2-040 (64)

Allen, Amanda
allena2@upmc.edu
1-015

Almas, Alisa N.
Aalmas@umd.edu
2-025 (57)

Althaus, Nadja
nadja.althaus@psy.ox.ac.uk
1-009 (41)

Alva Canto, Elda A.
alva@unam.mx
1-022, 2-040 (28)

Alvarez-Segura, Mar
maralvarez.segura@gmail.com
1-025 (57)

Amahazion, Tighisti
selam4always@gmail.com
2-025 (2)

Amso, Dima
dima_amso@brown.edu
2-040 (50), 3-016, 3-023 (7)

An, Yk
Anyk@JMU.edu
3-019

Andersen, Jennifer
jennifer-andersen@uiowa.edu
2-035

Anderson, Daniel R.
anderson@psych.umass.edu
1-009 (28), 2-040 (40), 2-040 (41)

Anderson, David I.
danders@sfsu.edu
2-007, 2-040 (11)

Anderson, Edward
edward.anderson@mail.utexas.edu
2-034 (63)

Anderson, Treshawn
treander@purdue.edu
2-011 (45), 2-011 (46)

Anzman-Frasca, Stephanie
sla197@psu.edu
3-015

Anzures, Gizelle
gizelle.anzures@utoronto.ca
3-011

Archer, Stephanie L.
slarcher@ucalgary.ca
3-012 (25)

Arias-Trejo, Natalia
nariast@unam.mx
1-022

Armstrong, Jeremy
jpa140@psu.edu
1-038 (58)

Armstrong, Laura M.
laura_armstrong_1@brown.edu
3-012 (59)

Arnold, Bryan
bryanarnold@unomaha.edu
1-033 (5)

Arterberry, Martha E.
Martha.Arterberry@colby.edu
1-025 (13), 1-025 (25), 2-011 (20)

Asano, Michiko
asano@sfc.keio.ac.jp
1-026

Aschersleben, Gisa
aschersleben@mx.uni-saarland.de
2-040 (51)

Author Index

Ashmead, Daniel
daniel.h.ashmead@Vanderbilt.Edu
3-017

Ashtiani, Hasti
Bb9334@wayne.edu
3-023 (67)

Aslin, Richard
richard.aslin@rochester.edu
1-035, 2-023, 2-039.5

Atchison, Kristin K.
kristin@midsonphoto.com
2-040 (34)

Ato, Ester
esterato@um.es
2-034 (68)

Ato, Manuel
matogar@um.es
1-009 (37)

Attig, Manja
attig@cbs.mpg.de
1-009 (2), 2-040 (12)

Auday, Eran S.
esa126@psu.edu
2-040 (6)

August, Elana G.
elana.august@gmail.com
1-038 (51), 3-012 (60)

Augustine, Mairin E.
mea184@psu.edu
1-025 (60)

Austin, Marie-Paule
m.austin@unsw.edu
1-038 (3)

Avci, Beren
bavci46@gmail.com
1-038 (38)

Azak, Schale
schale.azak@psykologi.uio.no
1-025 (65)

Baart, Martijn
M.Baart@uvt.nl
1-025 (17)

Babik, Iryna
irbabik@gmail.com
2-011 (10)

Babineau, Mireille
babineau.mireille@courrier.uqam.ca
1-005

Bacala, Lindsay
umbacall@cc.umanitoba.ca
2-011 (22)

Bada, Henrietta
hbada2@email.uky.edu
1-009 (49), 2-029, 3-013

Bahrack, Lorraine
bahrack@fiu.edu
1-009 (3), 1-025 (5), 1-025 (46),
1-033 (14), 3-002, 3-023 (36)

Baillargeon, Renee
rbaillar@illinois.edu
1-006, 1-033 (54), 2-019, 2-025 (28),
2-034 (52), 2-040 (46), 3-012 (37),
3-023 (26), 3-023 (35)

Baird, Caitlin
bairdcm@jmu.edu
3-019

Bakermans-Kranenburg, Marian
BAKERMANS@FSW.leidenuniv.nl
2-015, 2-040 (64)

Bakker, Marta
marta.bakker@psyk.uu.se
2-024, 3-008

Balas, Benjamin
Benjamin.Balas@nds.edu
2-011 (17)

Baldwin, Dare
baldwin@uoregon.edu
1-001, 1-013, 2-034 (37)

Balsamo, Felicia
feli623@yahoo.com
2-011 (60)

Bandes, Ella
ebandes16@gmail.com
3-012 (52)

Bard, Kim A.
kim.bard@port.ac.uk
2-015

Barde, Laura H.
lbarde@stanford.edu
3-023 (55)

Barich, Kathryn
barichka@whitman.edu
2-040 (4)

Barner, Rashida
rbarner@gmail.com
2-025 (60)

Barnes, Angel
angel.barnes@duke.edu
3-024

Barr, Rachel
rfb5@georgetown.edu
1-009 (31), 2-034 (24), 2-034 (67),
3-012 (68)

Barrera, Chloe M.
cbarrer5@my.fau.edu
2-025 (9)

Barthel, Dana
Dana.barthel@googlemail.com
2-040 (54)

Barton, Alexis A.
aabarton@indiana.edu
1-033 (33)

Batinjane, Jessica
batinjanej@gmail.com
1-025 (33)

Baudouin, Jean-Yves
Jean-Yves.Baudouin@u-bourgogne.fr
1-009 (4)

Bauer, Charles R.
cbauer@med.miami.edu
1-009 (49), 2-029, 3-013

Baumgartner, Heidi
hbaum@ucdavis.edu
2-034 (32)

Bayly, Benjamin
benbayly@gmail.com
3-023 (52)

Bechtel, Sabrina
sabrina.bechteler@
psychologie.uni-heidelberg.de
3-012 (39)

Author Index

Beckage, Nicole
nbeckage@uci.edu
3-014

Beebe, Beatrice
beebebe@pi.cpmc.columbia.edu
3-002, 3-012 (52)

Beeghly, Marjorie
beeghly@wayne.edu
1-015, 2-011 (68), 3-002, 3-012 (63)

Beekman, Charles
crb258@psu.edu
2-034 (70)

Begus, Katarina
k.begus@bbk.ac.uk
2-002, 2-011 (50)

Behm, Allison
abehm913@gmail.com
2-011 (48)

Behne, Tanya
tanya.behne@psych.uni-goettingen.de
1-033 (37), 2-034 (13)

Behrens, Kazuko Y.
kazuko.behrens@ttu.edu
1-025 (58), 3-006, 3-012 (50)

Beijers, Roseriet
r.beijers@psych.ru.nl
1-025 (42), 1-038 (50), 2-034 (69)

Bekkering, Harold
h.bekkering@donders.ru.nl
1-019, 2-006, 2-025 (4), 3-012 (1)

Belanger, Marie-Eve
marie.eve.belanger@live.ca
2-025 (63)

Bell, Aleeca F.
abell2@uic.edu
1-033 (7)

Bell, Martha Ann
mabell@vt.edu
1-011, 1-033 (13), 1-033 (50),
1-038 (25), 2-008, 2-025 (15),
2-025 (16), 3-012 (7)

Ben Sira, Liat
bensira@tasmc.health.gov.il
2-025 (5)

Ben-Bashat, Dafna
dafnab@tasmc.health.gov.il
2-025 (5)

Benavides-Varela, Silvia
silviabenavides@gmail.com
2-022

Benish-Weisman, Maya
maya.bw@edu.haifa.ac.il
1-033 (62)

Benzies, Karen
benzies@ucalgary.ca
1-009 (60), 1-027

Bergelson, Elika
elikab@psych.upenn.edu
2-040 (22)

Berger, Irit
iritb@tasmc.health.gov.il
2-025 (5)

Berger, Sarah E.
sarah.berger@csi.cuny.edu
1-033 (62), 2-011 (5), 2-040 (3)

Bergeson, Tonya R.
tbergeso@iupui.edu
1-038 (17), 3-012 (17)

Berglund, Eva
eva.berglund@buv.su.se
2-040 (25)

Bergmann, Christina
C.Bergmann@let.ru.nl
1-033 (39)

Berman, Jared
jberman@ucalgary.ca
2-011 (28)

Berman, Jennie
jenniedb88@gmail.com
3-012 (52)

Bernard, Carline
carline.bernard@etu.parisdescartes.fr
1-010

Bernier, Annie
annie.bernier@umontreal.ca
1-034, 1-038 (43), 2-025 (63),
2-034 (47), 2-037

Bernier, Raphael
rab2@u.washington.edu
1-033 (1)

Berry, Daniel
db152@nyu.edu
1-038 (29)

Berry, Sarah A.
sarahamay@hotmail.com
1-038 (60)

Bertenthal, Bennett I.
bbertent@indiana.edu
1-033 (33), 2-006, 2-034 (9),
2-034 (10), 3-008

Bertin, Evelyn
evelyn.bertin@fhnw.ch
1-009 (35), 2-034 (34)

Bertoncini, Josiane
josiane.bertoncini@parisdescartes.fr
2-040 (21)

Best, Catherine A.
best.140@osu.edu
1-009 (40), 3-009

Best, Catherine T.
c.best@uws.edu.au
1-012, 1-026, 2-034 (15), 3-021

Bhardwaj, Rishi
dr.rishi.bhardwaj@gmail.com
2-025 (29)

Bhaskaran, Joanna
joanna.bhaskaran@gmail.com
1-005

Bhat, Anjana N.
anjana.bhat@uconn.edu
1-038 (61), 1-038 (62)

Bhatara, Anjali
bhatara@gmail.com
2-040 (27)

Bhatt, Ramesh S.
rbhatt@email.uky.edu
1-009 (9), 1-038 (5), 1-038 (6),
2-025 (19)

Bibok, Max
mbibok@telus.net
1-009 (51)

Author Index

Bigelow, Ann

abigelow@stfx.ca
1-025 (51)

Bijvoet, Simone

c.j.bijvoet@stir.ac.uk
1-025 (30)

Bion, Ricardo A.

ricardoh@stanford.edu
2-011 (25), 3-023 (10)

Biondi, Marisa

marisa.biondi@umb.edu
3-012 (44)

Birch, Leann L.

llb15@psu.edu
3-015, 3-023 (65)

Biro, Szilvia

sbiro@fsw.leidenuniv.nl
2-040 (64)

Bishop, Keri

kerib@email.arizona.edu
1-033 (49)

Bitchteler, Anne

bichteler@gmail.com
1-038 (48)

Blair, Clancy

clancy.blair@nyu.edu
1-038 (29)

Blaser, Erik

erik.blaser@umb.edu
3-012 (44)

Blissett, Jackie

j.blissett@bham.ac.uk
1-009 (64), 1-009 (65), 2-011 (67),
3-012 (2)

Blum, Emily

emily.blum@bucknell.edu
2-025 (38)

Blumberg, Mark

mark-blumberg@uiowa.edu
2-012

Bobb, Susan C.

sbobb@gwdg.de
1-022

Boddy, Lauren

z1606884@students.niu.edu
2-011 (48), 3-023 (54)

Boersma, Brittany C.

bsaykall@uoregon.edu
1-025 (66)

Bogossian, Fiona

f.bogossian@uq.edu.au
1-038 (68)

Bohlin, Gunilla

gunilla.bohlin@psyk.uu.se
2-011 (35)

Boivin, Michel

michel.boivin@psy.ulaval.ca
1-034

Bolhuis, Jantina

bolhuis@psych.uni-frankfurt.de
1-020

Boll-Avetisyan, Natalie

nboll@uni-potsdam.de
2-040 (27)

Bolognini, Nadia

nadia.bolognini@unimib.it
2-011 (2)

Boniszewski, Ashlyn

aboniszewski@mail.niagara.edu
2-025 (26)

Borchert, Sonja

borchert@psych.uni-frankfurt.de
3-020

Bordeleau, Stéphanie

stephanie.bordeleau@umontreal.ca
1-034, 2-025 (63), 2-034 (47)

Borgatti, Renato

renato.borgatti@bp.lnf.it
2-025 (58)

Bornstein, Marc H.

Marc_H_Bornstein@nih.gov
1-009 (53), 1-025 (13), 1-025 (25),
1-038 (34), 2-011 (20), 2-034 (48),
2-036, 3-012 (67), 3-023 (48)

Borten, Ariel

ariel.a.borten@vanderbilt.edu
1-038 (9)

Bortfeld, Heather

heather.bortfeld@uconn.edu
1-025 (17), 1-033 (20)

Bosseler, Alexis

bosseler@u.washington.edu
1-008

Bosworth, Rain G.

rbosworth@ucsd.edu
1-033 (35)

Bouchon, Camillia

camillia.bouchon@
etu.parisdescartes.fr
3-023 (12)

Boudreau, Jean-Paul

boudreau@arts.ryerson.ca
2-040 (9), 3-012 (70)

Bowen, Sara

slbowen3@gmail.com
1-029

Boyer, Ty W.

tywboyer@indiana.edu
1-033 (33), 2-006, 2-034 (9),
2-034 (10)

Bradley, Catherine

caabrad@fiu.edu
3-012 (41)

Braeken, Marijke

m.braeken@uvt.nl
1-003, 1-033 (18)

Brailas, Matthew

mbrailas@gmail.com
1-033 (51)

Brailas, Nicholas

nicholasbrailas2012@
U.NORTHWESTERN.EDU
1-033 (51)

Brandon, Debra H.

debra.brandon@duke.edu
3-024

Brandone, Amanda C.

acb210@lehigh.edu
3-026

Brannon, Elizabeth

brannon@duke.edu
2-011 (42), 3-018, 3-023 (8),
3-023 (23)

Author Index

Braungart-Rieker, Julia M.

jbraunga@nd.edu
1-038 (44)

Braze, Dave

braze@haskins.yale.edu
2-011 (30)

Bremner, Andrew J.

a.bremner@gold.ac.uk
1-009 (5), 2-025 (14)

Bremner, J Gavin

j.g.bremner@lancaster.ac.uk
2-011 (33), 3-023 (2), 3-023 (5)

Brenna, Viola

v.brenna1@campus.unimib.it
2-025 (24)

Brez, Caitlin

cbrez@ku.edu
2-023

Brianna, Pollock

bep19@pitt.edu
2-034 (65)

Bridgett, David J.

dbridgett1@niu.edu
1-038 (39), 1-038 (59), 2-011 (48),
2-025 (61), 3-023 (41), 3-023 (54)

Bristow, Florence

florencegbristow@gmail.com
3-023 (33)

Brito, Natalie

nhb3@georgetown.edu
2-034 (24)

Broder, Lauren S.

lauren.broder@uconn.edu
1-009 (45), 1-025 (41)

Broderick, Amanda

avbroder@med.umich.edu
3-010

Brooker, Ivy S.

ivybrooker@gmail.com
2-011 (32)

Brooker, Rebecca J.

rbrooker@wisc.edu
1-021, 1-033 (22), 2-025 (13)

Brooks, Jada L.

jada@email.unc.edu
2-011 (55)

Brophy-Herb, Holly E.

hbrophy@msu.edu
2-015, 3-023 (45)

Brosha, Tricia

x2008kdg@stfx.ca
1-038 (18)

Brosseau-Liard, Patricia

patricia@psych.ubc.ca
2-034 (36)

Brothers, Julia L.

jlb636@nyu.edu
1-033 (8), 2-025 (20)

Brown, Amanda

apbrow6@emory.edu
2-029, 3-027

Brown, Geoffrey

gbrown@clarku.edu
2-040 (58), 3-012 (64)

Brown, Lisa F.

lfbrown2@vcu.edu
2-011 (54), 3-023 (56)

Brown, Michelle

michelle.brown@gallaudet.edu
3-019

Brown, Roger

rlbrown2@wisc.edu
2-011 (54)

Brownell, Celia A.

brownell@pitt.edu
2-034 (65), 3-012 (21)

Brumbaugh, Jane E.

brum036@umn.edu
1-009 (62)

Bruton, Catherine

catherinebruton2012@
u.northwestern.edu
1-033 (51)

Buck, Karen

Karen.buck@earthlink.net
3-002, 3-012 (52)

Buckler, Helen

helen.buckler@mpi.nl
1-009 (16)

Buder, Eugene H.

ehbuder@memphis.edu
1-033 (40)

Bulf, Hermann

hermann.bulf@unimib.it
2-025 (27), 2-034 (4), 2-040 (16),
3-012 (19)

Bunce, Louise

l.bunce@brookes.ac.uk
1-038 (28)

Burakowski, Lauren M.

lburakowski@ucla.edu
2-034 (44)

Burgess, Tanya

burgessst@umich.edu
3-012 (32)

Burke, Mike

burkemi5@msu.edu
1-009 (18)

Burling, Joseph M.

jmburling@uh.edu
3-012 (40)

Burnson, Cynthia

cfburnson@wisc.edu
1-033 (67), 2-037

Burrows, Catherine

cburrows@umn.edu
2-040 (60)

Burt, Mike

d.m.burt@durham.ac.uk
2-034 (1)

Burtchen, Nina

nb2572@columbia.edu
1-025 (57)

Bush, Andrew J.

abush@tuci.org
2-011 (70)

Bushnell, Emily W.

emily.bushnell@tufts.edu
2-040 (39)

Author Index

Buss, Kristin A.

kab37@psu.edu
1-025 (53), 1-025 (55), 1-025 (61),
1-033 (22), 1-038 (52), 1-038 (58),
2-025 (13), 2-034 (70), 3-012 (48),
3-012 (69)

Busuito, Alexandra

abusuito@med.umich.edu
3-010

Butler, Blake E.

butlerbe@mcmaster.ca
2-016

Butler, Derrecka

derrecka.butler@gmail.com
2-035

Buttelmann, David

david.buttelmann@uni-erfurt.de
1-013, 2-034 (36), 3-023 (30)

Buttelmann, Frances

frances.buttelmann@uni-erfurt.de
3-023 (30)

Byers-Heinlein, Krista

k.byers@concordia.ca
1-012, 1-017

Byrne, Mary E.

Mary.Byrne@boystown.org
1-038 (70)

Cabell, Sonia

sqc2d@virginia.edu
2-040 (67)

Cabrera, Laurianne

laurianne.cabrera@
etu.parisdescartes.fr
2-040 (21)

Caldera, Yvonne

yvnone.caldera@ttu.edu
1-025 (47), 2-034 (50)

Calkins, Susan D.

sdcalkin@uncg.edu
1-033 (50), 2-008, 3-012 (7), 3-015

Call, Josep

call@eva.mpg.de
2-011 (39)

Calvert, Maegan

mcalver1@emich.edu
1-025 (59)

Calvert, Sandra L.

calverts@georgetown.edu
1-009 (28)

Campbell, Jennifer

campbejc@ucalgary.ca
2-011 (28)

Campbell, Julie M.

infantde@uncg.edu
2-011 (10)

Campbell, Lauren

lc15@yorku.ca
1-002, 2-034 (64)

Campbell, Susan B.

sbcamp@pitt.edu
1-025 (64), 2-035

Campos, Joseph J.

jcampos@berkeley.edu
1-025 (49), 2-007, 2-034 (46),
2-040 (11), 2-040 (66)

Camras, Linda

lcamras@depaul.edu
1-025 (49)

Cantrell, Lisa

cantrell@indiana.edu
1-009 (11)

Carmody, Dennis

dennis.carmody@umdj.edu
2-008

Carpendale, Jeremy I.

jcarpend@sfu.ca
3-023 (34)

Carpenter, Malinda

carpenter@eva.mpg.de
1-013, 2-034 (36)

Carranza, Jose A.

carranza@um.es
1-009 (37), 2-034 (68)

Carrazza, Cristina

cristinac@uchicago.edu
3-012 (54)

Carreiras, Manuel

m.carreiras@bcbl.eu
2-016

Carrier, Julie

julie.carrier.1@umontreal.ca
1-034, 2-025 (63)

Carriere, Hannah

hcc6167@louisiana.edu
1-009 (57)

Carroll, Darlene

carrollgiha@gmail.com
3-023 (67)

Carroll, Vincent A.

carrollv@goldmail.etsu.edu
1-038 (60)

Cartagena, Diana

cartagenadc@vcu.edu
1-009 (66)

Cartwright, David

david_cartwright@health.qld.gov.au
1-038 (68)

Carver, Leslie J.

ljcarver@ucsd.edu
1-025 (44)

Casasola, Marianella

mc272@cornell.edu
3-023 (39)

Casey, Rita

r.casey@wayne.edu
3-023 (67)

Cashon, Cara H.

cara.cashon@louisville.edu
1-033 (31), 1-038 (4)

Castellanos, Francisco Xavier

Francisco.Castellanos@nyumc.org
1-025 (57)

Castellanos, Irina

icast003@fiu.edu
1-025 (5)

Celano, Emma

ecc340@nyu.edu
2-031

Ceulemans, Annelies

annelies.ceulemans@ugent.be
3-023 (22)

Chambers, Kyle

kchamber@gustavus.edu
2-013

Author Index

- Chamlou, K.**
chamlou12@up.edu
2-004
- Chan, Calista J.**
psycjc@nus.edu.sg
2-025 (35), 2-025 (36)
- Chang, Franklin**
Franklin.Chang@liverpool.ac.uk
3-012 (42)
- Chang, Yin-Juei**
yinjueichang2014@
u.northwestern.edu
1-033 (32)
- Chao, Wan-Ting**
fearnot39@gmail.com
1-009 (22)
- Charpentier, Linda**
lcharpentier@assumption.edu
1-024
- Chatila, Razanne**
razanne@email.arizona.edu
1-035
- Cheal, Jenna**
chealj@mcmaster.ca
2-011 (19)
- Cheatham, Carol L.**
carol_cheatham@unc.edu
3-012 (6)
- Chen, Chao-Ying**
chen.1740@buckeyemail.osu.edu
1-033 (9)
- Chen, Frances S.**
frances.chen@psychologie.uni-
freiburg.de
2-019
- Chen, Henian**
chen10032@yahoo.com
3-002
- Chen, Hui**
Chenhui1821@126.com
1-028
- Chen, Jie**
jiech@umich.edu
3-012 (32), 3-023 (16)
- Chen, Lin**
linchen@bcslab.ibp.ac.cn
3-012 (24)
- Chen, Marian L.**
marian.chen@gmail.com
3-023 (4)
- Chen, Shiyi**
Shiyi1@live.missouristate.edu
2-040 (62)
- Chen, Weiwen**
athencww@gmail.com
2-034 (10)
- Chen, Xinyin**
xinyin@gse.upenn.edu
1-009 (13)
- Cheung, Him**
hcheung@psy.cuhk.edu.hk
2-013
- Chiba, Andrea**
chiba@cogsci.ucsd.edu
3-012 (5)
- Chien, Sarina Hui-Lin**
sarinachien@mail.cmu.edu.tw
3-012 (24), 3-023 (1), 3-023 (3)
- Childers, Jane B.**
jchilder@trinity.edu
3-012 (33)
- Chin, Fumiyuki**
fzc109@psu.edu
1-038 (67)
- Chionh, Shermaine**
u0901190@nus.edu.sg
2-025 (35)
- Chirichetti, Kirsten**
kchirichetti@assumption.edu
2-034 (57)
- Cho, Sunghye**
sxc464@psu.edu
1-025 (53), 3-012 (69)
- Choe, Daniel E.**
danieewo@umich.edu
1-036
- Choi, Youngon**
yochoi@cau.ac.kr
3-012 (14), 3-012 (42)
- Chou, Raymond**
rc485@cornell.edu
2-009
- Christiansen, Morten H.**
christiansen@cornell.edu
2-040 (49)
- Christopher, Caroline H.**
caroline.c.heaton@mail.utexas.edu
1-038 (49)
- Cicchetti, Dante**
cicchetti@umn.edu
1-018, 1-033 (56)
- Ciceri, Francesca**
francesca.ciceri@bp.inf.it
2-025 (58)
- Ciciolla, Lucia**
lucia.ciciolla@asu.edu
2-033, 3-027
- Cimpian, Andrei**
acimpian@illinois.edu
1-038 (26), 1-038 (27)
- Cioffi, Camille**
camillec@uoregon.edu
2-040 (59)
- Clay, Nakia**
clayn@ohsu.edu
3-013
- Clay, Zanna**
zannaclay@emory.edu
2-003
- Clearfield, Melissa W.**
clearfmw@whitman.edu
2-040 (4)
- Clemons, Ashley**
z1603836@students.niu.edu
3-023 (41)
- Cluver, Annette**
acluver@gwdg.de
1-038 (24), 2-011 (39)
- Coburn, Shayna S.**
shayna.coburn@asu.edu
2-011 (64), 2-015

Author Index

Coelho, Renuka
renukabc@umich.edu
2-037

Cohen, Leslie
lesliecohen@me.com
1-025 (26)

Cohen, Patricia
prc2@columbia.edu
3-002

Cohn, Jeffrey F.
jeffcohn+@cs.cmu.edu
3-023 (50)

Cole, Pamela
pmc5@psu.edu
3-012 (59), 3-012 (66)

Coleman, Priscilla
pcolema@bgsu.edu
2-034 (60)

Colombo, John
colombo@ku.edu
2-004, 2-023

Colucio, Inae
colucioi1@mail.montclair.edu
1-025 (33)

Concannon, Kristin
Kristin.Concannon@
childrens.harvard.edu
2-025 (8)

Congdon, Eliza L.
econgdon@uchicago.edu
3-012 (10)

Conington, Alison
conington@email.sc.edu
1-033 (21)

Conradt, Elizabeth
EConradt@Wihri.org
2-025 (3), 2-029, 3-013

Corapci, Feyza
feyza.corapci@boun.edu.tr
1-033 (62)

Cordes, Sara
sara.cordes@bc.edu
2-011 (43)

Corley, Robin P.
Robin.Corley@colorado.edu
2-040 (52)

Corrow, Sherryse L.
mayox046@umn.edu
1-025 (11), 1-033 (30)

Cortes Barragan, Rodolfo
cortes@stanford.edu
2-034 (53)

Costa-Giomi, Eugenia
costagiomi@mail.utexas.edu
1-025 (26)

Costigan, Kathleen A.
kcostig@jhmi.edu
1-038 (1)

Cote, Linda
linda.cote-reilly@marymount.edu
1-009 (53), 2-034 (48)

Cotler, Joseph
yussel60@aol.com
1-025 (54)

Coussons-Read, Mary
Mary.Coussons-Read@uc.denver.edu
3-001

Covey, Lee Anna
leecov@nmsu.edu
2-034 (27)

Cox, Martha J.
martha_cox@unc.edu
1-038 (46), 2-011 (65), 2-034 (51)

Cox Eriksson, Christine
christine.cox.eriksson@specped.su.se
2-040 (25)

Cristia, Alejandrina
alecristia@gmail.com
2-040 (29), 3-021, 3-023 (13)

Crnic, Keith
Keith.Crnic@asu.edu
2-011 (64), 2-015, 2-033, 3-027

Crosby, Brian
bkc13@psu.edu
1-034

Cross, Emily
e.cross@bangor.ac.uk
1-019

Csibra, Gergely
csibrag@ceu.hu
1-016, 1-020, 1-023, 2-016, 2-026,
3-012 (36), 3-023 (4)

Cuevas, Kimberly
kcuevas@vt.edu
1-033 (13), 2-016

Culbertson, Jennifer
jennifer.culbertson@gmail.com
1-005

Cummings, Andrew J.
cummin29@unlv.nevada.edu
2-025 (22)

Curtin, Suzanne
scurtin@ucalgary.ca
1-017, 1-025 (18), 1-029, 2-011 (28),
3-005, 3-012 (25)

D'Souza, Hannah M.
dsouza.31@buckeyemail.osu.edu
2-025 (44)

Dahl, Audun
dahl@berkeley.edu
2-007, 2-034 (46), 2-040 (66)

Dalton, William T.
daltonw@etsu.edu
1-038 (60)

Dancause, Kelsey
kelseydancause@gmail.com
2-030

Daum, Moritz M.
daum@cbs.mpg.de
1-009 (2), 1-019, 2-025 (29),
2-040 (12), 3-008, 3-012 (16)

David, Richard
rdavid@uic.edu
3-023 (59), 3-024

Davis, A.
adavis@willamette.edu
2-004

Davis, Elizabeth L.
eld14@psu.edu
1-025 (53), 1-025 (55), 1-025 (61),
1-038 (52), 1-038 (58), 2-025 (13),
3-012 (48)

Author Index

Davis, Lauren

ledavi3@emory.edu
1-038 (41), 3-012 (20)

Davis, Rachel

simmons@unlv.nevada.edu
1-028

Dawson, Colin R.

cdawson@email.arizona.edu
1-035

Day, Kimberly L.

kday08@vt.edu
3-006

Dayanim, Shoshana

sdayani@emory.edu
1-009 (29)

Dayton, Carolyn J.

cdayton@umich.edu
1-038 (45), 2-011 (62)

de Barbaro, Kaya

kaya@cogsci.ucsd.edu
2-001, 3-012 (5)

de Bruijn, Ellen R.

edebruijn@fsw.leidenuniv.nl
3-012 (1)

de Campos, Ana Carolina

campos.anacarol@gmail.com
2-040 (8)

de Hevia, Lola

dehevia@lola@gmail.com
2-040 (36)

de Jong, Marjanneke

m.dejong1@uu.nl
1-038 (50), 3-023 (60)

de Klerk, Carina

c.deklerk@bbk.ac.uk
1-033 (6)

de Vos, Willem

willem.devos@wur.nl
1-009 (56)

de Waal, Frans

dwaal@emory.edu
2-003

de Weerth, Carolina

c.deweerth@psych.ru.nl
1-009 (56), 1-025 (42), 1-038 (50),
2-034 (69)

Decker, Kalli B.

deckerk5@msu.edu
1-038 (15), 2-011 (21)

Degnan, Kate

kdegan@umd.edu
2-025 (57)

DeGregorio, Geneva

Geneva.DeGregorio@
childrens.harvard.edu
2-025 (8)

Delavenne, Anne

anne.delavenne@gmail.com
1-033 (60)

Delgado, Natalie

ndelg005@fiu.edu
3-012 (41)

Delle Luche, Claire

claire.delleluce@plymouth.ac.uk
1-009 (15), 1-025 (20), 2-034 (19),
2-040 (23), 3-023 (12)

DeLoache, Judy S.

jd8d@virginia.edu
2-025 (45)

Delonis, M Susan

sdelonis@wayne.edu
1-015

Demers, Lindsay B.

lindsay.b.demers@gmail.com
1-009 (28), 2-040 (40)

Deng, Huihua

dengrcls@seu.edu.cn
1-009 (13)

DeNicola, Christopher A.

chris.denicola@louisville.edu
1-033 (31), 1-038 (4)

Denison, Stephanie M.

sdenison09@gmail.com
3-004

Deodhar, Aditi

avdeodha@indiana.edu
2-034 (10)

DePaolis, Rory

depaolra@jmu.edu
2-017, 3-019

Depowski, Nicole

nicole.depowski@uconn.edu
1-025 (17)

Deschênes, Marie

marie.deschenes@umontreal.ca
1-038 (43), 2-034 (47)

Desoete, Annemie

annemie.desoete@ugent.be
3-023 (22)

DeVoogd, Tim

tim.devoogd@cornell.edu
2-009

Devouche, Emmanuel

emmanuel.devouche@
parisdescartes.fr
1-033 (60)

Dewey, Amber

amber-dewey@uiowa.edu
2-034 (55)

Dexter, Casey

casey.a.dexter@gmail.com
1-009 (18)

Deák, Gedeon

deak@cogsci.ucsd.edu
1-009 (50), 2-001, 2-025 (11),
3-012 (5)

Di Giorgio, Elisa

elisa.digiorgio@unipd.it
2-011 (13)

Diaz, Anjolie

adiaz07@vt.edu
2-008, 3-012 (7)

Dice, Jaime

jdice@uri.edu
1-009 (8), 1-038 (8)

Dickerson, Kelly

kdicker1@binghamton.edu
1-009 (31)

Dickstein, Susan

susan_dickstein@brown.edu
3-023 (69)

Author Index

Diesendruck, Gil
dieseng@biu.ac.il
1-025 (22), 1-025 (24)

DiFabrizio, Stephanie
difabrizios1@mail.montclair.edu
1-025 (33)

Dijkstra, Nienke
n.dijkstra@let.ru.nl
3-023 (11)

DiLalla, Lisabeth
ldilalla@siu.edu
2-025 (60)

Dilworth-Bart, Janean
jedilworth@wisc.edu
1-038 (65)

Din Osmun, Laila
l.din@yorku.ca
1-002, 2-034 (64)

Dionne, Ginette
Ginette.Dionne@psy.ulaval.ca
1-034

Dionne, Kim
kim.dionne@umontreal.ca
1-033 (41)

DiPietro, Janet A.
jdipietr@jhsph.edu
1-038 (1)

Direnfeld, Leah
ldir@yorku.ca
2-040 (38)

Dittmar, Miriam
miriam.dittmar@uzh.ch
2-011 (27), 2-034 (34)

Dixon, Wallace E.
dixonw@etsu.edu
1-009 (32), 1-038 (60), 2-034 (28)

Dobkins, Karen
kdobkins@ucsd.edu
1-009 (10), 1-033 (35)

Dolan, Bridget
bridget.dolan@mu.edu
2-029

Donald, Jenny
jenny.donald@mq.edu.au
1-038 (3)

Doom, Jenalee R.
jena.doom@gmail.com
3-012 (4)

Dove, Meghan K.
mkdove@uga.edu
1-009 (8), 1-038 (8)

Downey, Maureen
mdowney@mail.niagara.edu
2-025 (26)

Downs, Erica
edowns@gmail.com
2-025 (2)

Dreyer, Benard P.
Benard.Dreyer@nyumc.org
1-025 (57)

Driscoll, Stephanie
smdriscoll86@gmail.com
3-023 (54)

Dueker, Gwendon
dueker@gvsu.edu
1-038 (16)

Duffy, Hester
hester.duffy@plymouth.ac.uk
1-009 (15), 1-025 (20), 1-038 (13)

Duh, Shinchieh
sduh@ucsc.edu
3-023 (27)

Dunfield, Kristen A.
kristen.dunfield@gmail.com
2-019, 3-023 (68)

Dunn, Kirsty J.
k.dunn@lancaster.ac.uk
2-011 (33)

Dunn, Sarah
sarah.dunn100@email.wsu.edu
3-023 (52)

Dupoux, Emmanuel
emmanuel.dupoux@gmail.com
2-021

Durand, Karine
karine.durand@u-bourgogne.fr
1-009 (4)

Durrant, Samantha
samantha.durrant@plymouth.ac.uk
1-009 (15), 1-025 (20), 2-040 (23)

Dush, Claire K.
kamp-dush.1@osu.edu
3-023 (66)

Dusing, Stacey
scdusing@vcu.edu
2-040 (1)

Duta, Mihaela
mihaela.duta@psy.ox.ac.uk
1-033 (43)

Dwyer, Anne
a.dwyer@uws.edu.au
1-012

Dywan, Jane
jdywan@brocku.ca
1-028

Ecklund-Flores, Lisa
lecklundflores@mercy.edu
1-025 (1), 2-025 (2)

Edmunds, Sarah R.
sre26@cornell.edu
3-023 (17)

Edwards, Alison
alison.edwards@asu.edu
1-025 (36)

Eggum, Natalie
Natalie.Eggum@asu.edu
1-025 (36)

Eiden, Rina D.
eiden@ria.buffalo.edu
1-009 (55), 1-025 (3), 3-023 (61)

Ein, Natalie
nein@ryerson.ca
3-012 (70)

Eisenberg, Nancy
Nancy.Eisenberg@asu.edu
1-025 (36), 3-012 (12)

Ekas, Naomi V.
naomi.ekas@tcu.edu
3-002

Ekberg, Therese L.
therese.ekberg@psyk.uu.se
1-033 (12)

Ekström, Jenny
jenny@ling.su.se
2-025 (21)

Author Index

Elekes, Fruzsina
e_fruzsi@invitel.hu
2-006

Elicker, James
elickerj@purdue.edu
1-025 (37), 2-011 (45), 2-011 (46)

Elkin, Rachel
rle57@cornell.edu
1-001

Elliot, Kristen M.
ellio215@umn.edu
1-009 (45)

Ellis, Ann
ellisa@grinnell.edu
2-034 (6)

Ellis-Davies, Katherine
Elliskg@cardiff.ac.uk
1-033 (34), 2-011 (51), 2-017, 2-031

Ellman, Stephanie
se238@cornell.edu
1-038 (23)

Elsner, Birgit
birgit.elsner@uni-potsdam.de
1-009 (2), 2-011 (12), 2-024,
2-034 (23), 2-040 (18)

Elsner, Claudia
Claudia.elsner@psyk.uu.se
1-025 (12), 2-024

Emberson, Lauren
lauren.emberson@gmail.com
2-040 (49)

Emery, Helen
hemery2@illinois.edu
1-031

Endo, Satoshi
s.endo@bham.ac.uk
3-012 (2)

Engeldinger, Jane
jane-engeldinger@uiowa.edu
2-030

Englund, Michelle M.
englu008@umn.edu
1-036

Erickson, Nora
nora.erickson@wsu.edu
2-034 (68)

Espinosa, Carolina
carespin@eden.rutgers.edu
1-038 (63), 3-023 (64)

Esseily, Rana
ranaesseily@hotmail.com
1-013, 1-033 (28)

Evens, Joseph
joseph.evens@wayne.edu
1-015

Fagard, Jacqueline
jacqueline.fagard@gmail.com
1-004, 1-013, 1-033 (28)

Fair, Damien
faird@oshu.edu
3-013

Fais, Laurel
lfais@psych.ubc.ca
2-040 (32)

Falcón, Alberto
falconalberto@hotmail.com
2-040 (28)

Fang, Shixin
shf741@mail.harvard.edu
1-009 (13), 3-012 (56)

Farag, Rafalla
rafalla.farag@plymouth.ac.uk
1-009 (15), 1-025 (20), 1-038 (13)

Faria, Melysa
mfaria@assumption.edu
2-034 (57)

Farzin, Faraz
ffarzin@stanford.edu
2-036

Fassbender, Ina
ina.fassbender@uni-bielefeld.de
2-020

Fausey, Caitlin M.
cfausey@indiana.edu
3-009

Fava, Eswen
eswenfava@gmail.com
1-033 (20)

Fawcett, Christine
christine.fawcett@psyk.uu.se
2-011 (52)

Fearon, Pasco
p.fearon@ucl.ac.uk
1-009 (1)

Feigenson, Lisa
feigenson@jhu.edu
1-023, 2-040 (43), 2-040 (44),
3-012 (45), 3-023 (21)

Feinberg, Mark
mef11@psu.edu
3-012 (58)

Feldman, Heidi M.
hfeldman@stanford.edu
3-023 (55)

Feldman, Naomi
nhf@umd.edu
2-005

Feldman, Ruth
feldman.ruth@gmail.com
1-033 (23)

Feliciano, Milton
mf1518@nyu.edu
1-025 (57)

Fennell, Christopher
fennell@uottawa.ca
1-010, 1-017, 2-040 (26)

Fenstermacher, Susan
sue.fenstermacher@gmail.com
3-012 (68)

Ference, Jennifer D.
jdferenc@ucalgary.ca
1-025 (18)

Ferera, Matar
matar.ferera@gmail.com
1-025 (24)

Fernald, Anne
afernald@stanford.edu
1-030, 2-034 (22), 3-022, 3-023 (10),
3-023 (55)

Ferry, Alissa
aferry@sissa.it
1-025 (23), 1-025 (29)

Author Index

- Fetig, Nicole B.**
nbowling@gmu.edu
2-025 (15)
- Fetters, Michael**
mafetters@gmail.com
3-012 (26)
- Fichtl, Severin**
s.fichtl.10@aberdeen.ac.uk
1-004
- Fifer, William P.**
wpf1@columbia.edu
1-025 (1), 2-025 (2)
- Fikkert, Paula**
paula.fikkert@mac.com
1-009 (16), 1-009 (25), 1-033 (39),
2-021, 3-012 (28), 3-023 (9),
3-023 (11)
- Filippa, Manuela**
mgfilippa@libero.it
2-011 (59)
- Finch, Jenna**
jef53@georgetown.edu
2-034 (67), 3-012 (68)
- Fine, Jodene G.**
finej@msu.edu
1-015
- Finegood, Eric**
efinegoo@med.umich.edu
3-010
- Fisher, Cynthia**
cfishe@cyrus.psych.illinois.edu
3-012 (27)
- Fisher, Philip A.**
philf@oslc.org
1-033 (17)
- Fisher, Wayne**
wfisher@unmc.edu
2-011 (7)
- Fisher-Thompson, Donna**
dfthompson@niagara.edu
2-017, 2-025 (26)
- Fizke, Ella**
ella.fizke@psych.uni-goettingen.de
2-040 (54)
- Flaster-Taverner, Caroline**
cflaster@psychotherapybcn.net
1-025 (57)
- Fleahman, Alissa N.**
zanf15@goldmail.etsu.edu
1-009 (32)
- Flint, Andrea**
Andrea_flint@health.qld.gov.au
1-038 (68)
- Floccia, Caroline**
caroline.floccia@plymouth.ac.uk
1-009 (15), 1-025 (20), 1-038 (13),
2-034 (19), 2-040 (23), 3-023 (12)
- Flom, Ross**
flom@byu.edu
1-025 (45), 1-025 (67), 3-011
- Flombaum, Jonathan**
jflombaum@gmail.com
2-040 (44)
- Flora, David**
dflora@yorku.ca
1-002, 1-038 (66)
- Flores, Melissa**
mflores@trinity.edu
3-012 (33)
- Flory, Michael J.**
mjflory@rcn.com
2-011 (60)
- Flynn, Emma**
e.g.flynn@durham.ac.uk
1-032
- Flynn, Heather**
hflynn@umich.edu
2-011 (62)
- Flynn, Valerie**
vflynn@aurora.edu
2-025 (59)
- Fogel, Alan**
alan.fogel@psych.utah.edu
3-002
- Folland, Nicole A.**
nfolland@gmail.com
2-016
- Fong, Vanessa L.**
vfong@vfong.com
1-009 (13)
- Forget-Dubois, Nadine**
nadine.forget-dubois@psy.ulaval.ca
1-034
- Foroud, Afra**
afra.foroud@gmail.com
2-040 (2), 3-009
- Forssman, Linda**
linda.forssman@psyk.uu.se
2-011 (35)
- Forster, Deborah**
forstermobu@gmail.com
2-001
- Fortin, Annie-Joëlle**
annie_joelle@me.com
1-033 (41)
- Fortuna, Keren**
keren.fortuna@mail.huji.ac.il
1-031
- Fowler, Nia**
FowlerNC@cardiff.ac.uk
1-033 (34), 2-017, 2-031
- Fox, Nathan A.**
fox@umd.edu
1-011, 1-021, 1-025 (14), 2-025 (57)
- Fragkioudaki, Frantzeska**
frantzeskafragkioudaki@gmail.com
2-025 (46)
- Franchak, John M.**
franchak@nyu.edu
1-033 (8), 2-040 (19)
- Franchin, Laura**
laura.franchin@unipd.it
2-025 (27)
- Francis, Brian**
b.francis@lancaster.ac.uk
1-003
- Franco, Antonio J.**
nurktwinsplhcb@hotmail.com
2-040 (28)
- Frank, Chelsea**
du9044@wayne.edu
1-015

Author Index

Frank, Hannah

hef4@georgetown.edu
2-034 (24)

Frank, Michael C.

mcf Frank@stanford.edu
2-010, 2-024

Frankel, Leslie

LeslieFrankel@gmail.com
2-034 (63)

Frauenfelder, Ulrich

ulrich.frauenfelder@unige.ch
1-033 (44), 2-022

Freeman, Jacob

iabsorbthings@gmail.com
3-012 (52)

Freitag, Claudia

Claudia.Freitag@psychol.uni-
giessen.de
2-007, 2-020, 3-026

French, Jason A.

frenchja@u.northwestern.edu
1-033 (51), 2-025 (48)

French, Robert M.

robert.french@u-bourgogne.fr
2-040 (17), 3-023 (15)

French-Child, Jessica

jessicaibfrench@gmail.com
1-007

Frick, Janet

jfrick@uga.edu
3-011

Fricker, Damian C.

dfricker@indiana.edu
3-022

Friederici, Angela D.

angelaf@cbs.mpg.de
1-019, 1-038 (55)

Friedman, Allison

ahf240@nyu.edu
1-038 (29)

Friedman, Bruce

bhfriedm@vt.edu
2-029

Friedman, Naomi P.

naomi.friedman@colorado.edu
2-040 (52)

Friend, Margaret

mfriender@sciences.sdsu.edu
2-025 (32)

Friendly, Rayna H.

friender@mcmaster.ca
1-012

Fuda, Christina M.

cfuda@yorku.ca
3-023 (6)

Fuentes, Susana

susana.fuentes@wur.nl
1-009 (56)

Fukuyama, Hiroshi

h.fukuyama@ky7.ecs.kyoto-u.ac.jp
1-038 (12)

Fumagalli, Guido F.

guido.fumagalli@univr.it
3-012 (46)

Gabaree, Lily

lgaba7@gmail.com
1-033 (52)

Gaertner, Kim

kimgaer@aol.com
2-040 (54)

Gaias, Larissa M.

larissamichelle19@gmail.com
3-012 (57)

Galazka, Martyna A.

mgalazka@bu.edu
2-034 (26)

Galián, María

mdgalian@um.es
2-034 (68)

Gallagher, Erin

egallag1@emich.edu
3-023 (43)

Gallagher, Kathleen C.

kate.gallagher@unc.edu
2-037

Gamber, Bridget C.

bridget@mail.utexas.edu
1-033 (42), 3-012 (61)

Gampe, Anja

gampe@cbs.mpg.de
3-012 (16)

Ganea, Patricia

patricia.ganea@utoronto.ca
1-009 (44), 2-034 (26)

Gangi, Devon N.

dgangi@psy.miami.edu
3-023 (70)

Ganiban, Jody M.

jmganiban@gmail.com
2-034 (70)

Ganser, Lena

lena.ganser@
psychologie.uni-heidelberg.de
2-011 (66)

Garcia, Leanna

garcia12@illinois.edu
1-031

Gardner, Judith M.

karmelgardner@si.rr.com
2-011 (60)

Garfield, Hartley

hgarfield@utoronto.ca
1-002, 1-038 (66), 2-034 (64)

Gariepy, Jean-Louis

jl加里皮@mindspring.com
1-038 (46)

Gartstein, Maria A.

gartstma@wsu.edu
2-025 (61), 2-034 (68), 2-034 (69),
3-023 (52), 3-023 (54)

Gattis, Merideth

GattisM@cardiff.ac.uk
1-016, 1-033 (34), 1-033 (61),
2-011 (51), 2-017, 2-031, 3-023 (32),
3-023 (33)

Gava, Lucia

lucia.gava@unimib.it
1-028

Ge, Liezhong

topglzh@163.com
1-028, 2-040 (14)

Geangu, Elena

geanguel@gmail.com
1-038 (56), 2-025 (29)

Author Index

Geffen, Maria N.
mgeffen@mail.med.upenn.edu
2-011 (15)

Gentner, Dedre
gentner@northwestern.edu
1-025 (29)

George, Nathan R.
nathan.george@temple.edu
1-025 (28)

Georgieff, Michael
georg001@umn.edu
3-003

Geraldo, Victoria
gerv@sinaï.org
3-024

Gergely, György
gergelygy@ceu.hu
1-020, 2-026, 3-012 (36), 3-023 (4)

Gerhardstein, Peter
gerhard@binghamton.edu
1-009 (31)

Gerken, LouAnn
gerken@email.arizona.edu
1-010, 1-035, 2-034 (11), 3-023 (19)

Gerson, Sarah A.
s.gerson@donders.ru.nl
1-009 (34)

Gervain, Judit
judit.gervain@parisdescartes.fr
1-010, 2-011 (15), 2-016

Gerwitz-Stern, Alanna
agerwitz@yorku.ca
1-002

Geva, Ronny
Ronny.Geva@biu.ac.il
1-033 (15), 2-025 (5), 2-025 (6)

Ghazban, Niusha
nghazban@psych.ryerson.ca
2-040 (9), 3-012 (70)

Gheyara, Sufna
s.gheyara@gmail.com
2-025 (60)

Ghirardi, Valentina
valentina.ghirardi.1@studenti.unipd.it
2-011 (13)

Gibilisco, Colleen R.
Colleen.Gibilisco@boystown.org
1-009 (20), 1-038 (70)

Gibson, Dominic
dominic.gibson@gmail.com
2-040 (44)

Gibson, Jennifer
jngibson@live.unc.edu
1-038 (11)

Gilkerson, Jill
jillgilkerson@lenafoundation.org
1-038 (22), 2-011 (29)

Gillis, Doris
dgillis@stfx.ca
1-025 (51)

Gilmore, Rick O.
rogilmore@psu.edu
2-038, 2-040 (19)

Gittins, Katherine
katherine.gittins@gmail.com
2-011 (32)

Glass, Sara
sglass2@sycamores.indstate.edu
1-038 (42)

Gluga, Teodora
t.gluga@bbk.ac.uk
2-002, 2-011 (50)

Glynn, Laura
lglynn@uci.edu
2-030

Goertz, Claudia
cl.goertz@psych.uni-frankfurt.de
3-020, 3-026

Gogate, Lakshmi
lgogate@fgcu.edu
1-025 (16)

Goins, Emily C.
ecg90@vt.edu
3-006

Goldberg, Joshua
joshgold@alum.mit.edu
2-017

Goldberg, Wendy
wagoldberg@uci.edu
2-030

Goldenberg, Elizabeth R.
ergoldenb@gmail.com
2-034 (12)

Goldin-Meadow, Susan
sgm@uchicago.edu
1-033 (57)

Goldstein, Michael H.
mhg26@cornell.edu
1-001, 1-025 (19), 1-038 (23), 2-009,
2-040 (49), 3-023 (17)

Golinkoff, Roberta M.
Roberta@udel.edu
1-009 (12), 1-025 (28), 1-038 (21),
2-025 (42), 3-012 (35), 3-012 (55)

Gomez, Rebecca
rgomez@u.arizona.edu
1-033 (49), 2-034 (16)

Gontijo, Ana Paula B.
paulabensemam@gmail.com
1-009 (59), 1-033 (10)

Gonzales, Nancy
nancy.gonzales@asu.edu
2-033, 3-027

Gonzalez, Richard
gonzo@umich.edu
1-038 (45), 2-011 (62), 3-010

Gonzalez Gomez, Nayeli
nayeli.gonzalez.gomez@gmail.com
1-005, 2-025 (30), 2-040 (24)

González-Salinas, Carmen
cgonzale@um.es
2-034 (68)

Goodman, Sherryl
psysg@emory.edu
2-029, 3-027

Goodman-Wilson, Miranda
mgoodmanwilson@ucdavis.edu
1-033 (65), 2-034 (66)

Goodwin, Dresden
dgood209@yahoo.com
3-005

Goody, Adam
a.goody@lancaster.ac.uk
3-007

Author Index

Gopnik, Alison

gopnik@berkeley.edu
3-004

Goslin, Jeremy

jeremy.goslin@plymouth.ac.uk
1-038 (13)

Goubet, Nathalie

ngoubet@gettysburg.edu
1-009 (4)

Goy, Huiwen

huiwen.goy@utoronto.ca
2-011 (36)

Grady, Jessica S.

Jessica.Stoltzfus@mail.wvu.edu
1-033 (68), 2-040 (61)

Graefenhain, Maria

mgraefe@gwdg.de
2-034 (13), 2-034 (40), 2-040 (47)

Graf, Frauke

f.graf@psych.uni-frankfurt.de
2-020, 3-020

Graf Estes, Katharine

kgrafestes@ucdavis.edu
1-029, 3-016

Graff, Joyce C.

jgraff@uthsc.edu
2-011 (70)

Graham, Alice

agraham2@uoregon.edu
1-033 (17)

Graham, Katharine A.

kag796@bham.ac.uk
3-012 (2)

Graham, Susan

grahams@ucalgary.ca
1-009 (44), 1-029, 2-011 (28)

Grande, Jessica M.

jmgrande@uno.edu
3-012 (65)

Granger, Douglas

dgrange2@son.jhmi.edu
1-025 (3), 1-038 (46)

Granrud, Carl E.

Carl.Granrud@unco.edu
1-025 (10), 1-033 (30)

Grant, Kerry-Ann

kerryann.grant@mq.edu.au
1-038 (3), 2-030

Grantz, Caroline

cgrantz@psy.miami.edu
3-023 (70)

Grassmann, Susanne

s.grassmann@rug.nl
3-012 (34)

Gratier, Maya

gratier@gmail.com
1-033 (60), 2-011 (59)

Gray, Teresa

Teresa.Gray@dfs.virginia.gov
1-009 (55), 1-025 (3)

Graziano, Paulo A.

pgrazian@fiu.edu
3-015

Gredeback, Gustaf

gustaf.gredeback@psyk.uu.se
1-025 (12), 2-024, 3-008

Green, Dorota

dorota.green@psyk.uu.se
1-033 (12)

Green, James A.

james.green@uconn.edu
1-009 (45), 1-025 (41), 1-025 (56),
1-033 (46), 2-011 (3)

Greenberg, Saul

saulped@utoronto.ca
1-002, 1-038 (66), 2-034 (64)

Gregory, Katherine

katherine.gregory.2@bc.edu
3-024

Gress-Smith, Jenna L.

jgress@asu.edu
2-033

Greuel, Alison J.

agreuel@psych.ubc.ca
1-009 (39)

Griffiths, Tom

tom_griffiths@berkeley.edu
2-005

Groh, Ashley M.

amgroh2@illinois.edu
1-031, 2-019

Gros-Louis, Julie

julie-gros-louis@uiowa.edu
2-009, 2-034 (55), 2-035

Gros-Tsur, Varda

gros@szmc.org.il
2-025 (5)

Grossmann, Tobias

grossman@cbs.mpg.de
1-009 (7), 1-019, 1-038 (55), 2-015,
2-027

Grove, K. L.

grovel@ohsu.edu
2-004

Gruenbaum, Barbara

barbara.gruenbaum@uconn.edu
1-025 (17)

Grünloh, Thomas

Thomas.Gruenloh@mpi.nl
2-025 (40), 3-012 (34)

Gudi, Helene

hgudi@uos.de
2-020

Gudmundson, Jessica A.

jagudmun@uncg.edu
1-038 (69)

Guellai, Bahia

bahia.guellia@gmail.com
2-011 (23)

Guerin, Frank

f.guerin@abdn.ac.uk
1-004

Guerra, Miriam

miriam.to@gmail.com
1-009 (59), 1-033 (10)

Guinn, Rhonda

rguinn@tuci.org
2-011 (70)

Gunnar, Megan R.

gunnar@umn.edu
1-025 (2), 1-036, 2-040 (60), 3-003,
3-012 (4)

Author Index

Gurlt, Caitlin

gurlcm16@uwgb.edu
1-009 (11)

Gustafson, Gwen

gwen.gustafson@uconn.edu
1-025 (56), 1-033 (46)

Gustafson, Kathleen F.

kgustafson@kumc.edu
2-004

Guy, Maggie W.

mriggs5@utk.edu
1-033 (14), 2-011 (14)

Gweon, Hyowon

hyora@mit.edu
3-004

Göksun, Tilbe

tilbe@mail.med.upenn.edu
1-025 (28)

Ha, Oh-Ryeong

ohryeong.ha@louisville.edu
1-033 (31)

Haerri, Ursula

ursihaerri@hotmail.com
1-009 (35)

Hahn, Chun-Shin

hahnc@mail.nih.gov
1-038 (34)

Hailey, Brianna

bhailey@uoregon.edu
2-025 (3), 3-013

Hakuno, Yoko

yokohakuno@gmail.com
1-033 (27), 3-023 (18)

Halberda, Justin

halberda@jhu.edu
3-023 (21)

Haley, David

haley@utsc.utoronto.ca
1-038 (38)

Hall, Timothy E.

teh5022@psu.edu
3-012 (48)

Haltigan, John D.

jdhaltig@uncg.edu
1-031, 3-006, 3-012 (50)

Hamil, Melissa S.

mhamil@sycamores.indstate.edu
1-038 (42)

Hamlin, J Kiley

kiley.hamlin@psych.ubc.ca
1-016, 3-025

Hammond, Jane

Hammond@rti.org
1-009 (49), 2-029, 3-013

Hammond, Stuart I.

shammond@sfu.ca
3-023 (34)

Hamre, Bridget

bkh3d@virginia.edu
2-040 (67)

Hancock, Peter

p.j.b.hancock@stir.ac.uk
3-012 (20)

Handl, Andrea

andrea.handl@psyk.uu.se
3-008

Hane, Amie A.

Amie.A.Hane@williams.edu
1-021

Hannagan, Thomas

thom.hannagan@gmail.com
2-014

Hansen, Melissa A.

melissa.hansen@temple.edu
2-025 (42)

Hansen, Mikkel B.

mikkel.hansen@iedparis8.net
3-023 (31)

Hansen-Tift, Amy M.

ahanse10@fau.edu
1-025 (4), 1-033 (29)

Hanson, Katherine G.

khanson@psych.umass.edu
1-009 (28), 2-040 (40), 2-040 (41)

Hanson, Madeline

babylab@berkeley.edu
1-035

Harbourne, Regina

rharbour@unmc.edu
1-033 (5), 2-011 (7), 2-011 (8)

Hardin, Jillian

jsader@fau.edu
2-025 (9)

Hare, Brian

b.hare@duke.edu
2-003, 2-025 (49), 2-025 (50),
2-040 (35)

Harris, Katherine

kguyon@emich.edu
1-025 (59), 1-038 (54)

Hatahet, Lila

lhatahet@gmail.com
1-038 (54)

Hauf, Petra

phauf@stfx.ca
1-009 (33), 1-033 (47), 1-038 (18)

Havy, Mélanie

melanie.havy@gmail.com
2-025 (34), 3-009

Haworth, Joshua

jlhawort@unmc.edu
2-011 (8)

Haworth, Joshua L.

jlhaworth@unomaha.edu
1-033 (5), 2-011 (7)

Hawthorne, Kara E.

kara.hawthorne@gmail.com
1-010

Hay, Dennis

d.hay@lancaster.ac.uk
3-023 (2)

Hay, Jessica F.

jhay@tennessee.edu
1-029

Haydon, Katherine C.

kchaydon@illinois.edu
1-031

Hayes, Marie J.

Marie.Hayes@umit.maine.edu
1-009 (61), 2-011 (58), 3-012 (11),
3-023 (62), 3-023 (63)

Haywood, Shevon M.

shevonh@gmail.com
2-011 (60)

Author Index

- Hazen, Nancy**
nancyhazen@mail.utexas.edu
1-038 (49), 2-034 (63)
- He, Minxuan**
minxuanhe@berkeley.edu
2-040 (11)
- He, Zijing**
hezij2@mail.sysu.edu.cn
3-012 (37)
- Heathcock, Jill C.**
Heathcock.2@osu.edu
1-033 (9)
- Heck, Alison**
alibme04@vt.edu
2-034 (2)
- Heimann, Mikael**
mikael.heimann@ibv.liu.se
3-020
- Hellendoorn, Annika**
A.Hellendoorn@uu.nl
3-007
- Heller, Nicole A.**
nicole.heller@umit.maine.edu
1-009 (61), 2-011 (58), 3-012 (11),
3-023 (62), 3-023 (63)
- Hendrix, Nicole**
nhendrix@u.northwestern.edu
1-025 (23)
- Hennefield, Laura**
laura.hennefield@gmail.com
2-034 (41)
- Henning, Anne**
a_henning@mx.uni-saarland.de
2-040 (51)
- Henrichs, Ivanina**
ivanina.henrichs@uni-potsdam.de
1-009 (2), 2-024, 2-034 (23)
- Hensch, Takao**
hensch@mcb.harvard.edu
1-037
- Hepach, Robert**
hepach@eva.mpg.de
1-025 (40), 1-038 (37), 3-025
- Herbert, Jane**
j.s.herbert@sheffield.ac.uk
2-034 (21), 2-034 (29)
- Hernik, Mikolaj**
hernikm@ceu.hu
1-009 (1)
- Heron-Delaney, Michelle A.**
michelle.delaney@uq.edu.au
1-038 (68), 3-011
- Herrmann, Esther**
eherrman@eva.mpg.de
2-003, 2-025 (50)
- Herrod, Henry G.**
hherrod@tuci.org
2-011 (70)
- Hespos, Susan**
hespos@northwestern.edu
1-006, 1-025 (23), 1-025 (29),
1-033 (32), 2-040 (45)
- Hester, Colleen**
hester1@illinois.edu
1-031
- Hetzel, Lisa**
lhsetzel@mail.niagara.edu
2-025 (26)
- Hetzel, Susan**
hage0328@umn.edu
1-033 (56)
- Hewitt, John K.**
John.Hewitt@colorado.edu
2-040 (52)
- Hidaka, Shohei**
shhidaka@jaist.ac.jp
2-023
- Hietanen, Jari**
jari.hietanen@uta.fi
2-011 (47)
- Hilbrink, Elma**
Elma.Hilbrink@mpi.nl
1-033 (34), 2-011 (51), 2-017, 2-031
- Hill-Soderlund, Ashley**
ashley.hill-soderlund@snc.edu
1-038 (46), 2-011 (48)
- Hillgrove Stuart, Jessica**
jsh@yorku.ca
1-002
- Hipwell, Alison**
hipwellae@upmc.edu
1-015
- Hiraki, Kazuo**
khiraki@idea.c.u-tokyo.ac.jp
2-040 (48)
- Hirsch, Suzanna**
suzanna.hirsch@med.einstein.yu.edu
2-025 (8)
- Hirsh-Pasek, Kathy**
khirshpa@temple.edu
1-009 (12), 1-025 (28), 1-038 (21),
2-025 (42), 3-012 (35), 3-012 (55)
- Hirshkowitz, Amy**
ahirshko@tamu.edu
1-033 (19)
- Ho, S. S.**
hosh@med.umich.edu
3-010
- Hobbs, Kathryn**
khobbs@fas.harvard.edu
1-033 (58), 1-038 (36)
- Hoch, Alyson**
allie.hoch@uky.edu
1-038 (6)
- Hochmann, Jean-Rémy**
jr.hochmann@gmail.com
2-022
- Hodel, Amanda S.**
hodel004@umn.edu
1-009 (62)
- Hoehl, Stefanie**
stefanie.hoehl@psychologie.uni-
heidelberg.de
1-009 (6), 2-025 (18), 2-027
- Hoffmann, Amy**
hoffmanna@upmc.edu
1-015
- Hoicka, Elena**
elena.hoicka@stir.ac.uk
1-016, 1-025 (30)

Author Index

Holditch-Davis, Diane
diane.hd@duke.edu
1-027, 2-011 (55), 2-034 (56),
3-023 (59), 3-024

Holt, Lori
lholt@andrew.cmu.edu
3-005

Hoppenbrouwers, Karel
karel.hoppenbrouwers@
med.kuleuven.be
3-023 (22)

Horodynski, Mildred
millie@msu.edu
1-009 (52)

Horton, Rachel
rhorton@yorku.ca
1-002

Hostinar, Camelia E.
hosti002@umn.edu
1-025 (2), 1-036, 3-012 (4)

Hou, Chuan
chuanhou@ski.org
2-036

Houston, Derek M.
dmhousto@indiana.edu
3-012 (17), 3-021

Houston, Jessica
jhousto2@gmail.com
2-019

Howard, Lauren H.
lhoward@uchicago.edu
1-001, 3-012 (54)

Howard Gola, Alice Ann
aliceann.howard@gmail.com
1-009 (28)

Howarth, Grace Z.
ghowarth@masonlive.gmu.edu
2-025 (15)

Hozella, Alexia
acb219@psu.edu
3-012 (3)

Hsieh, Yi-Hsin
foever125@yahoo.com.tw
3-012 (22)

Hsu, Hsin-Yueh
moonie0701@gmail.com
3-023 (1), 3-023 (3)

Huang, Chi-Tai
ucjtchu@nccu.edu.tw
1-009 (22)

Huang, Shi-Bing
98523202@stmail.tcu.edu.tw
1-009 (22)

Hubble, Morgan
morgan.hubble@gmail.com
1-038 (25), 2-025 (16)

Hudon, Tamara
thudo041@uottawa.ca
1-017, 2-040 (26)

Huerta, Snjezana
Snjezana.Huerta@asu.edu
1-025 (36)

Huestis, Marilyn
MHUESTIS@intra.nida.nih.gov
1-009 (55), 1-025 (3)

Hufnagel, Dan
hufnagle@cmu.edu
3-005

Hughes, Beverly
b.a.hughes@bham.ac.uk
1-009 (64)

Hughes, Kelly D.
khughes@rcbi.rochester.edu
2-003, 2-011 (40)

Hughes, Sheryl
Shughes@bcm.edu
2-034 (63)

Hull, Rachel
rhull@tamu.edu
1-033 (20)

Hummel, Alexandra C.
hummelac@muohio.edu
1-021, 1-025 (48)

Hung, C. J.
jennhung88@gmail.com
2-034 (46)

Hunnius, Sabine
s.hunnius@donders.ru.nl
1-019, 2-006, 2-014, 2-025 (4),
2-040 (10), 3-012 (1)

Hurley, Karinna B.
kbhurley@ucdavis.edu
2-014

Hurtado, Nereyda
nhurtado@stanford.edu
2-034 (22), 3-022, 3-023 (10)

Huth-Bocks, Alissa
ahuthboc@emich.edu
1-025 (59), 1-038 (54), 3-023 (43)

Hutt, Rachel L.
rlh283@psu.edu
2-034 (58), 2-040 (6)

Huynh, Lammai
HuynhLammai@gmail.com
1-033 (11)

Hyde, Daniel C.
dchye@fas.harvard.edu
1-025 (67)

Höhle, Barbara
hoehle@uni-potsdam.de
1-005, 2-022, 2-040 (27)

Ichikawa, Hiroko
ichihiro@tamacc.chuo-u.ac.jp
1-025 (69), 1-038 (31), 2-034 (4)

Imafuku, Masahiro
masahiro.imafuku@gmail.com
2-040 (13)

Imai, Mutsumi
imai@sfc.keio.ac.jp
1-026, 2-040 (31)

Inoue, Yasuyuki
y-inoue@real.cs.tut.ac.jp
3-012 (62)

Irwin, Jessica
eq9821@wayne.edu
1-015

Ishiguro, Hiroshi
ishiguro@sys.es.osaka-u.ac.jp
1-033 (55)

Author Index

Itakura, Shoji

sitakura@bun.kyoto-u.ac.jp
1-033 (55), 2-025 (55), 2-026,
2-040 (48), 3-012 (62)

Istel, Nadine

nadine_istel@yahoo.com
1-038 (21)

Iverson, Jana

jiverson@pitt.edu
2-011 (5), 2-031, 2-035

Izzo, Theresa

izzota@vcu.edu
2-040 (1)

Jacobs, Amy E.

aejaco02@louisville.edu
1-038 (4)

Jacobvitz, Deborah

debj@mail.utexas.edu
1-038 (48), 1-038 (49), 2-034 (63)

Jacquet, Anne-Yvonne

anne-yvonne.jacquet@
parisdescartes.fr
1-004

Jaffe, Joseph

jaffejo@pi.cpmc.columbia.edu
3-002, 3-012 (52)

Jalali, Shreya

shreya.jalali@mail.mcgill.ca
1-033 (41)

James, Karin H.

khjames@indiana.edu
3-012 (47), 3-023 (25)

Jamison, Kristen R.

kjamison@virginia.edu
2-040 (67)

Janiczek, Dan

Z1623925@students.niu.edu
1-038 (59)

Janssen, Denise

denisejanssen@student.ru.nl
3-012 (1)

Janzen, Gabriele

g.janzen@donders.ru.nl
2-025 (17)

Jao, R. Joanne

rjjao@indiana.edu
1-009 (50)

Jarquín, Susan E.

suefelice1981@yahoo.com
1-024

Jayaweera, Avanthi

avan010@vt.edu
1-025 (15)

Jayne, Katherine

kjayne@emory.edu
1-038 (41)

Jebam, Anna

anna.jebam@med.uni-heidelberg.de
3-023 (58)

Jerkins, Justin

jt.foreman@gmail.com
3-012 (40)

Jeschonek, Susanna

susanna.jeschonek@haw-hamburg.de
3-012 (39)

Jessee, Allison

ajessee2@illinois.edu
2-040 (58), 3-012 (64)

Jeste, Shafali

SJeste@mednet.ucla.edu
2-025 (8)

Jewett, Christopher R.

cjewett2@utk.edu
1-033 (14), 2-011 (14)

Jin, Kyong-sun

kjin5@illinois.edu
2-019, 3-012 (27)

Joh, Amy S.

amy.joh@duke.edu
1-009 (23), 2-011 (37), 2-025 (47),
3-017

Johansson, Maria

maria.johansson@psyk.uu.se
2-011 (35)

Johnson, Christine M.

johnson@cogsci.ucsd.edu
2-001

Johnson, Elizabeth

elizabeth.johnson@utoronto.ca
1-012, 1-022, 2-010, 2-011 (36),
2-025 (39), 2-034 (18), 3-021,
3-023 (37)

Johnson, Elizabeth B.

zebh8@goldmail.etsu.edu
2-034 (28)

Johnson, Leigha

z1603975@students.niu.edu
3-023 (41)

Johnson, Mark

mark.johnson@bbk.ac.uk
1-009 (7), 1-014, 1-020, 1-033 (6)

Johnson, Scott P.

scott.johnson@ucla.edu
1-033 (26), 2-014, 2-034 (3),
2-034 (44), 2-034 (45), 3-023 (5)

Johnson, Susan C.

johnson.4369@osu.edu
2-019, 3-023 (66)

Jones, Mike

mike.jones@mq.edu.au
1-038 (3)

Jones, Nancy A.

njones@fau.edu
1-025 (50), 1-025 (54), 1-038 (47),
2-025 (9)

Jones, Susan S.

jones1@indiana.edu
3-012 (47), 3-023 (25)

Jones, Theresa A.

tj@psy.utexas.edu
2-018

Jongmans, Marian

m.j.jongmans@uu.nl
1-027

Jowkar-Baniani, Gelareh

gjowkar@utsc.utoronto.ca
1-025 (31), 2-034 (8)

Joyce, Catherine

cjoyce@tuci.org
2-011 (70)

Julian, Megan M.

mmj17@pitt.edu
1-009 (48)

Author Index

Jun, Young-mi

amyjun330@gmail.com
3-012 (14)

Jung, Wendy P.

wjung@tulane.edu
1-004, 1-033 (3), 2-011 (9), 2-011 (11),
2-040 (5)

Jöhr, Jane Lubna

jane.johr@unige.ch
1-033 (44), 2-022

Kaakarli, Makieh

by2687@wayne.edu
1-015

Kadoo, Tamara

tamara.kadoo@wayne.edu
1-015

Kaduk, Katharina

katharina.kaduk@durham.ac.uk
2-011 (12)

Kaefer, Tanya

ttkaefer@umich.edu
1-009 (14), 3-012 (31)

Kager, René

r.w.j.kager@uu.nl
2-011 (18)

Kahrs, Björn A.

bkahrs@tulane.edu
1-004, 1-033 (3), 2-011 (9), 2-011 (11),
2-040 (5), 3-012 (15)

Kakigi, Ryusuke

kakigi@nips.ac.jp
1-033 (16)

Kaldy, Zsuzsa

zsuzsa.kaldy@umb.edu
3-012 (44)

Kalpidou, Maria

mkalpidou@assumption.edu
2-034 (59)

Kamp Dush, Claire

ckamp-dush@ehe.osu.edu
1-024

Kampis, Dora

dorka.kampis@gmail.com
2-026, 3-020

Kanakogi, Yasuhiro

y.kanakogi@fx3.ecs.kyoto-u.ac.jp
1-033 (55), 3-012 (62)

Kanazawa, So

kanaso@sea.plala.or.jp
1-025 (11), 1-025 (69), 1-033 (16),
1-038 (31), 1-038 (33), 2-034 (4)

Kanda, Takayuki

kanda@atr.jp
1-033 (55)

Kandhadai, Padmapriya

priyak@psych.ubc.ca
1-009 (43)

Kangas, Ashley

arkang2@uky.edu
1-009 (9), 1-038 (5), 1-038 (6),
2-025 (19)

Kannass, Kathleen N.

kkannas@luc.edu
1-009 (36), 1-025 (7)

Karasik, Lana

lbk224@nyu.edu
2-031

Karmel, Bernard Z.

karmelgardner@rcn.com
2-011 (60)

Karraker, Katherine

Katherine.Karraker@mail.wvu.edu
1-033 (68), 2-034 (60), 2-040 (61)

Karst, Jeffrey

jeffrey.karst@mu.edu
2-029

Kaur, Maninderjit

mandy_kamboj@yahoo.com
1-038 (61), 1-038 (62)

Kavšek, Michael

kavsek@uni-bonn.de
1-025 (10), 1-038 (10), 3-012 (23)

Kayl, Andrea J.

kayla@unlv.nevada.edu
1-028, 2-040 (15)

Keane, Susan P.

spkeane@uncg.edu
3-015

Keates, Jeany

jkeates@ggh.mb.ca
1-009 (44)

Keen, Rachel

rachelkeen@virginia.edu
2-025 (45)

Keenan, Kathryn

kkeenan@yoda.bsd.uchicago.edu
1-015

Kelleher, Rachael

rtkelleh@uncg.edu
3-015

Kellen, Kelsi

kelsi-kellen@uiowa.edu
3-023 (57)

Keller, Heidi

hkeller@uos.de
2-020, 2-032, 3-026

Kelley, Elizabeth A.

kelleby@queensu.ca
3-023 (68)

Kelley, Ken

KKelley@ND.Edu
2-037

Kelly, Melanie

m.kelly1313@yahoo.com
1-025 (50), 1-038 (47)

Kenardy, Justin

j.kenardy@uq.edu.au
1-038 (68)

Kenward, Ben

ben.kenward@psyk.uu.se
1-032

Keren-Portnoy, Tamar

tamar.keren-portnoy@york.ac.uk
2-017, 2-034 (21)

Kermoian, Rosanne

kermoian@stanford.edu
1-033 (11)

Kessler, Daniel

kesslerd@umich.edu
3-012 (32)

Keupp, Stefanie

skeupp@gwdg.de
1-032, 2-011 (34)

Author Index

Khu, Melanie

mkhu@ucalgary.ca
1-009 (44)

Kidd, Celeste

ckidd@bcs.rochester.edu
1-035, 2-023

Kiel, Elizabeth J.

kielluej@muohio.edu
1-021, 1-025 (48), 1-038 (53)

Killen, Melanie

mkillen@umd.edu
3-025

Kim, Bo-Ram

bkim317@psu.edu
1-034, 2-034 (61), 2-040 (57),
3-012 (3)

Kim, Eun Young

majilake@gmail.com
2-011 (53), 3-012 (14)

Kim, Hyo-rim

primewood@hanmail.net
3-012 (14)

Kim, Jeesun

j.kim@uws.edu.au
2-011 (23)

Kim, Joo Hyun

kimjoo12@msu.edu
1-009 (46)

Kim, Keun-Sun

keun-sun.kim@med.uni-heidelberg.de
3-023 (58)

Kim, Min-young

mybliss0811@gmail.com
3-012 (38)

Kim, Pilyoung

pilyoung.kim@nih.gov
1-033 (23)

Kim, Yun Jung

yun.ucla@gmail.com
2-034 (17)

King, Suzanne

Suzanne.king@douglas.mcgill.ca
2-030

King, Tony

samadhi@med.umich.edu
3-010

Kinoshita, Mariko

Knoshita05@live.missouristate.edu
2-040 (62)

Kirchhoff, Conny

kirchhc@frontier.com
2-034 (69)

Kirkham, Natasha

n.kirkham@bbk.ac.uk
2-040 (50), 3-016

Kirkorian, Heather

kirkorian@wisc.edu
1-009 (28), 2-040 (40)

Király, Ildikó

kiralyi@mtapi.hu
2-006, 2-026, 3-020

Kisilevsky, Barbara S.

kisilevb@queensu.ca
1-003

Kita, Sotaro

s.kita@bham.ac.uk
1-026, 2-040 (31)

Kitajo, Keiichi

kkitajo@brain.riken.jp
1-026

Kitamura, Christine

c.kitamura@uws.edu.au
1-012, 1-030, 2-011 (23), 2-034 (15),
3-021

Kitazaki, Michiteru

mich@tut.jp
3-012 (62)

Kittredge, Audrey K.

akittre2@illinois.edu
1-006, 2-040 (46)

Knopf, Monika

knopf@psych.uni-frankfurt.de
1-020, 2-020, 3-020

Ko, Eon-Suk

eonsukko@buffalo.edu
2-011 (22)

Ko, Yeonjung

goodluckmiri@hanmail.net
3-012 (42)

Kobayashi, Megumi

oc084001@grad.tamacc.chuo-u.ac.jp
1-033 (16)

Koegler, Holly

holly.koegler@pennstate.edu
3-019

Koester, Lynne S.

lynne.koester@umontana.edu
2-028, 3-012 (51)

Kohler, Danielle

kohlerdm@muohio.edu
1-021

Kolb, Bryan

kolb@uleth.ca
2-018

Kolling, Thorsten

tkolling@psych.uni-frankfurt.de
1-020, 3-020

Kolodziej, Jyoti A.

jkolodziej1@sycamores.indstate.edu
1-038 (42)

Kondaurova, Maria V.

mkondaur@iupui.edu
1-038 (17)

Kondrad, Robyn L.

rkondrad@virginia.edu
2-025 (45)

Konishi, Haruka

harukak@udel.edu
1-038 (21)

Kopp, Franziska

kopp@mpib-berlin.mpg.de
2-025 (12)

Koski, Jessica

tuc70729@temple.edu
1-007

Kosko, Carolyn

ckosko@udel.edu
1-038 (21)

Kostrba, A.

kostraba@ohsu.edu
2-004

Author Index

Koukoumi, Varvara
v.koukoumi1@lancaster.ac.uk
2-025 (46)

Koutstaal, Wilma
kouts003@umn.edu
1-007

Kovack-Lesh, Kristine A.
kovack-leshk@ripon.edu
3-005

Kovacs, Agnes
agneskovacs@mtapi.hu
1-020, 2-026, 3-012 (36)

Kow, Julie
julie.kow@utoronto.ca
2-011 (36)

Kraus, Allison
amkraus@stanford.edu
2-024

Krawczyk, Kirsty
kirsty_k83@hotmail.com
2-031

Kraybill, Jessica H.
jversele@vt.edu
2-008, 3-012 (7)

Krehm, Madelaine
madelaine.krehm@nyu.edu
2-002

Krentz, Ursula
krentu@spu.edu
1-014

Kretch, Kari S.
kari.kretch@nyu.edu
1-033 (8), 2-025 (20), 2-040 (19)

Kristen, Susanne
Susanne.Kristen@psy.lmu.de
1-009 (19), 1-033 (59), 2-025 (62),
3-023 (42)

Kroesbergen, Evelyn E.
E.H.Kroesbergen@uu.nl
2-040 (7)

Krogh, Lauren
lkrogh@ucla.edu
2-034 (45)

Krogh-Jespersen, Sheila
skrogh@uchicago.edu
1-009 (3)

Krueger, Charlene A.
ckrueger@ufl.edu
1-003

Kucker, Sarah
Sarah.Kucker@gmail.com
3-012 (43), 3-022

Kuersten-Hogan, Regina
rkeurstenhogan@assumption.edu
1-024, 2-034 (57)

Kuhlmeier, Valerie A.
vk4@queensu.ca
1-013, 1-038 (35), 3-023 (29),
3-023 (68)

Kulsar, Steven
kulsarst@jmu.edu
3-019

Kurilova, Jana
jkurilov@ucalgary.ca
1-009 (60)

Kushnir, Tamar
tk397@cornell.edu
2-011 (38)

Kutscher, Vanessa
kutscher@uni-potsdam.de
1-005

Kutsuki, Aya
akutsuki@hotmail.com
2-025 (55)

Kwok, Karen W.
Karen500@live.missouristate.edu
2-040 (62)

Kyger, Mariel
marielkyger@ucla.edu
2-011 (26)

Laake, Lauren
laurenlaake@gmail.com
1-038 (39), 1-038 (59), 2-011 (48),
3-023 (41)

Laakso, Aarre
aarre@umd.umich.edu
2-040 (55)

Laganaro, Marina
marina.laganaro@unige.ch
1-033 (44)

LaGasse, Linda L.
Linda_Lagasse@brown.edu
1-009 (49), 2-029, 3-013

Lakusta, Laura
lakusta@gmail.com
1-025 (33)

Lambert, Brittany
blambert@psy.miami.edu
3-023 (70)

Lamm, Bettina
blamm@uni-osnabrueck.de
2-020, 3-026

Landa, Rebecca J.
landa@kennedykrieger.org
3-026

Landerman, Lawrence R.
lawrence.landerman@duke.edu
2-011 (55)

Lang, Sarah N.
lang.279@osu.edu
3-023 (66)

Langill, Carolyn C.
clangill@purdue.edu
2-011 (46)

Lany, Jill
jlany@nd.edu
3-014

Lapierre, Matthew
mlapierre@asc.upenn.edu
2-034 (67)

Laplante, David
david.laplante@douglas.mcgill.ca
2-030

Larcerda, Francisco
francisco.lacerda@ling.su.se
2-021

Lau, Yessenia
ylau001@fiu.edu
1-009 (3)

Laurent, Heidemarie K.
hlaurent@uwyo.edu
1-031, 3-013

Author Index

Lauricella, Alexis
alexislauricella@gmail.com
1-009 (28)

Lavigne, Heather J.
heatherlavigne@comcast.net
1-009 (28), 2-040 (40), 2-040 (41)

Lawler, Jamie M.
lawle084@umn.edu
1-036

Laxman, Daniel J.
dlaxman2@illinois.edu
2-040 (58)

Lechner, Paige
jpl5250@psu.edu
1-025 (47), 2-034 (50)

Leckman, James
james.leckman@yale.edu
1-033 (23)

Ledingham, Jane E.
jane.ledingham@uottawa.ca
3-012 (60)

Lee, Christine
c-lee@u.northwestern.edu
1-033 (51)

Lee, Helen
hyjlee@umich.edu
3-012 (32)

Lee, Kang
kang.lee@utoronto.ca
1-028, 2-040 (14), 3-011

Lee, Sanghan
lee.sanghan@gmail.com
3-002, 3-012 (52)

Lee, Sengyeon
sengyeon.lee@gmail.com
3-012 (54)

Lee, Vivian
leev9@mcmaster.ca
1-038 (35), 2-011 (19)

Lee, Young-Eun
leeyou44@msu.edu
3-023 (45)

Lee, Zi Hyun
zihyun0314@gmail.com
3-012 (38)

Leed, Jackleen E.
jsmink@tulane.edu
1-033 (3), 2-040 (5)

Leerkes, Esther M.
emleerke@uncg.edu
1-025 (52), 1-031, 1-038 (69), 3-006,
3-023 (46)

Leezenbaum, Nina
nbl3@pitt.edu
2-035

Legendre, Geraldine
legendre@jhu.edu
1-005

Legerstee, Maria
legerste@yorku.ca
1-033 (63), 1-038 (38)

Lehtimäki, Terho
terho.lehtimaki@uta.fi
2-011 (49)

Leitner, Yael
leitnery@tasmc.health.gov.il
2-025 (5)

Lekow, Claudia
claudia.lekow@web.de
1-005

Lennon, Elizabeth M.
ELennon509@aol.com
2-011 (60)

Leppanen, Jukka
jukka.leppanen@uta.fi
2-011 (47), 2-011 (49)

Leseman, Paul P.
P.P.M.Leseman@uu.nl
2-011 (4), 2-040 (7), 3-007

Leslie, Alan
aleslie@rucss.rutgers.edu
3-025

Lester, Barry M.
Barry_Lester@Brown.EDU
1-009 (49), 2-029, 3-013

Leve, Leslie D.
lesliel@oslc.org
1-021, 2-034 (70)

Levine, Susan C.
s-levine@uchicago.edu
2-013

Levy, Janet
janet.levy@duke.edu
1-027, 3-023 (59), 3-024

Lew, Adina
a.r.lew@lancaster.ac.uk
2-025 (46)

Lew-Williams, Casey
lewwilliams@wisc.edu
2-010

Lewis, Marty
mlewis@mcvh-vcu.edu
3-023 (56)

Lewis, Michael
lewis@umdnj.edu
1-009 (42), 2-008

Lewkowicz, David J.
lewkowicz@fau.edu
1-009 (4), 1-025 (4), 1-033 (29),
1-038 (7), 2-034 (43), 3-011

Lewsader, Joellen
jguenin@purdue.edu
2-011 (46)

Li, Hong
lihong1@swu.edu.cn
1-028

Li, Julia X.
julia.x.li.01@gmail.com
3-023 (25)

Li, Qi
qli@tulane.edu
3-012 (15)

Liao, Yu
liaoyumail@gmail.com
2-025 (11)

Libertus, Klaus
klaus.libertus@gmail.com
1-014, 3-026

Libertus, Melissa E.
melissa.libertus@jhu.edu
2-011 (42), 3-023 (21), 3-023 (23)

Author Index

- Liberzon, Israel**
liberzon@umich.edu
3-010
- Licata, Maria T.**
Maria.Licata@psy.lmu.de
1-009 (19), 1-033 (59)
- Lickenbrock, Diane M.**
dml31@psu.edu
1-025 (55), 3-006, 3-015
- Lickliter, Robert**
lickliter@fiu.edu
1-025 (5), 1-033 (14), 2-012
- Lidz, Jeffrey**
jlidz@umd.edu
3-012 (26)
- Lietzow, Sarah**
s.lietzow@wayne.edu
3-023 (67)
- Lieven, Elena V.**
lieven@eva.mpg.de
1-033 (37)
- Lignos, Constantine**
lignos@cis.upenn.edu
2-010
- Lin, Betty**
betty.lin@asu.edu
2-011 (64), 2-015
- Lin, Hung-Chu**
hung-chu.lin@louisiana.edu
1-009 (57), 1-033 (46)
- Lin, Ming-Kuan**
mklin671122@gmail.com
3-012 (24)
- Lin, Yun-Lan**
u9602411@cmu.edu.tw
3-012 (24)
- Lincoln, Karen**
Karen.Lincoln@stees.nhs.uk
1-003
- Lindblom, Jallu**
jallu.lindblom@uta.fi
2-011 (47)
- Lindeke, Mary**
mal414@psu.edu
3-012 (66)
- Lindenberger, Ulman**
lindenberger@mpib-berlin.mpg.de
2-025 (12)
- Lindner, Harrison**
z1601113@students.niu.edu
2-011 (48), 3-023 (41)
- Lindsey, Eric**
ewl10@psu.edu
1-025 (47), 2-034 (50)
- Linebarger, Deborah L.**
deborah-linebarger@uiowa.edu
2-034 (67), 3-012 (68)
- Liszkowski, Ulf**
Ulf.Liszkowski@mpi.nl
1-009 (21), 1-038 (14), 2-011 (52),
2-025 (40), 3-023 (38)
- Litovsky, Ruth Y.**
litovsky@waisman.wisc.edu
3-017
- Liu, Cindy H.**
cindyliu@gmail.com
2-011 (63), 3-012 (56)
- Liu, Liquan**
liquanliu@hotmail.com
2-011 (18)
- Liu, Shaoying**
syliu@zstu.edu.cn
1-028
- Livingood, Jennifer**
livingooje@mnstate.edu
1-025 (9)
- Lloyd-Fox, Sarah**
s.fox@bbk.ac.uk
1-008, 1-009 (7), 2-027
- LoBue, Vanessa**
vlobue@psychology.rutgers.edu
1-025 (8)
- LoCasale-Crouch, Jennifer**
jl3d@virginia.edu
2-040 (67)
- Lockman, Jeffrey J.**
lockman@tulane.edu
1-004, 1-033 (3), 2-011 (9), 2-011 (11),
2-040 (5), 3-012 (15)
- Logan, Beth A.**
beth.logan@umit.maine.edu
1-009 (61), 2-011 (58), 3-012 (11),
3-023 (62), 3-023 (63)
- Lohan, Katrin S.**
klohan@techfak.uni-bielefeld.de
2-001
- Lohaus, Arnold**
arnold-lohaus@uni-bielefeld.de
2-020
- Lohse, Karoline**
klohse@gwdg.de
2-034 (13)
- Lohse, Rebecka L.**
rebecka.lohse@ndsu.edu
2-040 (37)
- Longhi, Elena**
elena.longhi@unimib.it
2-011 (2)
- Longo, Matthew R.**
m.longo@bbk.ac.uk
3-008
- Loots, Gerrit**
gerrit.loots@vub.ac.be
2-025 (41)
- Lopez, Nicole M.**
nicole.marie12188@gmail.com
1-038 (59), 2-025 (61)
- Lorenzi, Christian**
lorenzi@ens.fr
2-040 (21)
- Loring, Cynthia**
cynthia.loring@bc.edu
3-024
- Louis, Barbara**
louisba@umdnj.edu
1-009 (42)
- Lourenco, Stella**
stella.lourenco@emory.edu
1-026
- Love, Hailey**
hrl3@cornell.edu
3-023 (39)

Author Index

Lovelady, Cheryl
cheryl_lovelady@uncg.edu
3-015

Lu, Zuhong
zhlu@seu.edu.cn
1-009 (13)

Lucchese, Fernanda
felucchese@gmail.com
2-011 (68)

Lucci, Tania K.
taniaLUCCI@usp.br
2-025 (56)

Luck, Steven J.
sjluck@ucdavis.edu
2-034 (32)

Luecken, Linda J.
lluecke@asu.edu
2-011 (64), 2-033, 3-027

Lukowski, Angela
angela.lukowski@uci.edu
2-025 (64), 3-023 (20)

Lumas, Allante
allantel@umich.edu
3-023 (16)

Luo, Lizhu
ronly3129@gmail.com
1-028

Lusby, Cara
clusby@emory.edu
2-029, 3-027

Luyster, Rhiannon
rhiannon.luyster@
childrens.harvard.edu
3-012 (49)

Macagno, Francesco
macagno.franco@aoud.sanita.fvg.it
2-022

MacDonald, Kyle
kyle.macdonald@stanford.edu
3-023 (10)

MacKenzie, Heather
hkmacken@ucalgary.ca
1-029

MacLellan-Peters, Janis M.
jpeters@stfx.ca
1-025 (51)

Magalhães, Livia C.
liviam@gcsnet.com.br
1-009 (59), 1-033 (10)

Magill-Evans, Joyce
Joyce.Magill-Evans@ualberta.ca
1-009 (60), 1-027

Mahoor, Mohammad H.
mmahoor@du.edu
3-023 (50)

Maiorana, Nicole
nmaiorana@ria.buffalo.edu
1-009 (55)

Makeig, Scott
smakeig@ucsd.edu
2-025 (11)

Maldarelli, Jennifer E.
jmaldaire@tulane.edu
1-033 (3), 2-011 (9)

Mammen, Micah A.
mam1176@psu.edu
2-034 (58), 2-040 (6)

Mandell, Dorothy J.
d.j.mandell@uva.nl
1-009 (26), 1-033 (48)

Mangalindan, Diane Marie
mangalindan@utsc.utoronto.ca
1-038 (7), 2-040 (20)

Mangelsdorf, Sarah C.
smangels@northwestern.edu
2-040 (58), 3-012 (64)

Mani, Nivedita
nivedita.mani@zentr.uni-goettingen.de
1-017, 1-022, 2-005

Manning, Avery
averymanning@yahoo.com
3-023 (52)

Mantis, Irene
irene.mantis@gmail.com
1-038 (51), 3-012 (60)

Maouene, Josita
maouenej@gvsu.edu
2-040 (55)

Maouene, Mounir
mounir.maouene@gmail.com
2-040 (55)

Marchman, Virginia
marchman@stanford.edu
3-023 (10), 3-023 (55)

Marcovitch, Stuart
s_marcov@uncg.edu
1-033 (50), 1-038 (30), 2-008,
3-012 (7)

Marcus, Michal
michalmarcus@yahoo.com
1-033 (15)

Marcus, Sheila M.
smarcus@med.umich.edu
3-010

Mareschal, Denis
d.mareschal@bbk.ac.uk
2-040 (17), 3-023 (15)

Margolis, Amy
amy@brooklynlearningcenter.com
3-002

Marini, Michele
mem44@psu.edu
3-023 (65)

Marinovic, Vesna
Vesna.Marinovic@psychologie.uni-
heidelberg.de
3-012 (8)

Markant, Julie C.
julie_markant@brown.edu
1-033 (56), 3-023 (7)

Markese, Sara
saramee66@hotmail.com
3-002

Marklund, Ellen
ellen@ling.su.se
2-025 (21)

Markova, Gabriela
markova@praha.psu.cas.cz
1-033 (2), 1-033 (63), 2-011 (1)

Marks, Elmira
emarks@uni-bonn.de
1-038 (10), 3-012 (23)

Author Index

- Markson, Lori**
markson@wustl.edu
2-034 (41), 3-023 (28)
- Marom, Ronella**
ronella19ster@gmail.com
2-025 (5)
- Marquis, Willa**
wasm02@gmail.com
1-021
- Marsh, Kathryn**
klmarsh88@gmail.com
1-038 (47)
- Marshall, Peter**
pjmarsh@temple.edu
1-019, 1-033 (25), 2-006
- Marsit, Carmen**
Carmen.j.marsit@dartmouth.edu
1-038 (2)
- Martin, Alia**
alia.martin@yale.edu
2-002, 2-025 (54)
- Martinez-Torteya, Cecilia**
cecilima@med.umich.edu
3-010
- Martuccio, Tiffany L.**
martocc1@msu.edu
2-015, 3-023 (45)
- Masapollo, Matthew**
matthew.masapollo@mail.mcgill.ca
3-023 (14)
- Mascalzoni, Elena**
elena.mascalzoni@unipd.it
2-011 (44)
- Mascaro, Olivier**
olivier.mascaro@gmail.com
1-016
- Mash, Clay**
mashc@mail.nih.gov
1-025 (13), 2-011 (20), 2-036
- Mason, James**
j.m.mason@durham.ac.uk
1-003
- Mason, Uschi C.**
u.mason@lancaster.ac.uk
3-023 (5)
- Masuda, Tamami**
tamami-m@tezukayama-u.ac.jp
1-025 (34)
- Masur, Elise F.**
efmasur@niu.edu
1-033 (45), 2-025 (59)
- Matatyaho, PhD, Dalit J.**
dalitjm@gmail.com
2-025 (2)
- Mather, Emily**
emily.mather@hull.ac.uk
2-017
- Mathews, Meagan E.**
memathew@uncg.edu
1-025 (52)
- Mathias, Jaimi**
jmathias@siu.edu
2-025 (60)
- Mathison, Jordan**
mathi266@umn.edu
1-033 (30)
- Matsunaka, Reiko**
matsunaka@ardbeg.c.u-tokyo.ac.jp
2-040 (48)
- Matte-Gagné, Célia**
celia.matte-gagne@umontreal.ca
1-038 (43), 2-034 (47)
- Matthews, Danielle E.**
danielle.matthews@sheffield.ac.uk
1-033 (37), 2-034 (21)
- Matthews, Kaleigh**
kaleighbmatthews@gmail.com
1-025 (8)
- Mattson, Whitney I.**
w.mattson@umiami.edu
3-023 (50)
- Maupin, Angela**
maupinan@msu.edu
1-015
- Maurer, Daphne**
Maurer@mcmaster.ca
1-026, 1-028, 2-036
- May, Lillian**
lamay@psych.ubc.ca
1-029, 2-016, 2-034 (14)
- Mayer, Gail**
gem173@psu.edu
1-009 (54), 1-034, 2-040 (57),
3-023 (40)
- Mayes, Linda**
linda.mayes@yale.edu
1-033 (23), 1-038 (39)
- Mazuka, Reiko**
mazuka@brain.riken.jp
1-010, 2-011 (25)
- McCall, Robert B.**
mccall2@pitt.edu
1-009 (48)
- McCallum, Meaghan E.**
meaghan.mccallum@emory.edu
1-038 (2), 2-029, 3-027
- McCleery, Joseph P.**
j.p.mccleery@bham.ac.uk
3-012 (2), 3-012 (9)
- McCray, Nicole**
nmccray@ymail.com
2-028
- McCrudden, Sarah J.**
mccrudden@umd.edu
2-034 (20)
- McDaniel, Brandon**
bom5123@psu.edu
1-024, 1-025 (62), 1-034, 3-012 (58)
- McDermott, Josh H.**
jhm@cns.nyu.edu
2-011 (16)
- McDonald, Claudette**
claudette.mcdonald@nsc.ca
1-025 (51)
- McDonough, Susan**
scmcdono@umich.edu
1-036
- McEchron, Dan**
william-mcechron@uiowa.edu
3-005
- McElwain, Nancy**
mcelwn@ad.uiuc.edu
1-031

Author Index

- McEvoy, Cindy**
mcevoyc@ohsu.edu
3-013
- McFarland, David**
David.McFarland@umontreal.ca
1-033 (41)
- McGillion, Michelle**
m.mcgillion@sheffield.ac.uk
2-034 (21)
- McGrath, Jacqueline M.**
jmmcgrath@vcu.edu
1-009 (66)
- McGregor, Karla**
Karla-McGregor@uiowa.edu
3-022
- McLeod, Katelin**
kmcleod2@emich.edu
1-025 (59)
- McMahon, Catherine**
cathy.mcmahon@mq.edu.au
1-038 (3), 2-030
- McMurray, Bob**
Bob-McMurray@uiowa.edu
3-005, 3-022
- McRoberts, Gerald W.**
mcroberts@haskins.yale.edu
2-011 (30)
- Measelle, Jeffrey**
measelle@uoregon.edu
1-025 (66), 2-015, 2-025 (3),
2-040 (59), 3-013
- Mehler, Jacques**
mehler@sissa.it
1-037, 2-022
- Meisinger, Rachel E.**
Rachel.Meisinger@boystown.org
1-009 (20)
- Melançon, Andréane**
andreanemel@yahoo.ca
1-022
- Meltzoff, Andrew**
meltzoff@u.washington.edu
1-019, 1-033 (25), 2-006, 3-004
- Meltzoff, Katherine**
kmeltzof@ucsd.edu
1-025 (44)
- Menard, Lucie**
menard.lucie@uqam.ca
3-023 (14)
- Mendelsohn, Alan L.**
alm5@nyu.edu
1-025 (57)
- Menyhart, Otilia**
om38@cornell.edu
2-009
- Merckling, Danielle**
dalimonte.d@gmail.com
3-023 (45)
- Meristo, Marek**
marek.meristo@gu.se
2-040 (65)
- Merrell, Kayde L.**
kaydemerrell9@gmail.com
1-038 (39), 1-038 (59), 3-023 (41)
- Mervis, Carolyn B.**
cbmerv01@louisville.edu
1-033 (31)
- Messinger, Daniel**
dmessinger@miami.edu
3-002, 3-023 (50), 3-023 (70)
- Meyer, Audrey**
audrey.meyer@mu.edu
2-029
- Meyer, Marlene**
m.meyer@donders.ru.nl
3-012 (1)
- Michel, Christine**
christine-michel@gmx.de
1-009 (6)
- Michel, George F.**
gfmichel@uncg.edu
2-011 (6), 2-011 (10)
- Miles, Margaret S.**
mmiles@email.unc.edu
1-027
- Miller, Jennifer L.**
jmille38@iit.edu
1-033 (36), 2-009, 2-035
- Miller, Kyle E.**
kemiller4@wisc.edu
1-038 (65)
- Miller, Rob**
ROB101409@hotmail.com
1-038 (59)
- Miller, Stephanie**
semille3@uncg.edu
1-038 (30)
- Mills, Laura**
lmills11@vt.edu
1-025 (15)
- Mills-Koonce, William R.**
rmk@email.unc.edu
3-012 (13), 3-023 (47)
- Milojevich, Helen**
helen.milojevich@uci.edu
2-025 (64), 3-023 (20)
- Minagawa-Kawai, Yasuyo**
myasuyo@bea.hi-ho.ne.jp
1-033 (27), 3-023 (18)
- Minar, Nicholas J.**
nminar@fau.edu
1-025 (4), 1-033 (29)
- Minehart, Tali**
kristinran@yahoo.com
2-034 (56)
- Mink, Daniela**
d.mink@mx.uni-saarland.de
2-040 (51)
- Minter, Ashley**
mintera1@msu.edu
3-023 (45)
- Miser, Tracey M.**
miser.4@osu.edu
2-025 (44)
- Missaglia, Sara**
saramiss@tiscali.it
2-025 (58)
- Missana, Manuela**
missana@cbs.mpg.de
1-038 (55)
- Misyak, Jennifer**
jbm36@cornell.edu
2-040 (49)

Author Index

Miyazaki, Michiko
myzk@lab.tamagawa.ac.jp
2-034 (38), 2-040 (31)

Miyazawa, Kouki
m-kouki@moegi.waseda.jp
2-011 (25)

Mize, Krystal D.
kmize1@fau.edu
1-025 (50), 1-025 (54), 1-038 (47),
2-025 (9)

Mizuno, Yuu
yumizuno@chubu-gu.ac.jp
1-003

Moding, Kameron J.
kjm5444@psu.edu
3-015, 3-023 (53)

Molina, Glenda
glenda_molina@brown.edu
2-011 (31)

Molnar, Danielle
dmolnar@ria.buffalo.edu
3-023 (61)

Mondloch, Catherine J.
cmondloch@brocku.ca
1-028

Monk, Catherine
cem31@columbia.edu
3-001

Mononen, Nina
nina.mononen@uta.fi
2-011 (49)

Montirosso, Rosario
rosario.montirosso@bp.inf.it
2-025 (24), 2-025 (58)

Montplaisir, Jacques Y.
jy.montplaisir@umontreal.ca
1-034

Moore, David S.
dmoore@pitzer.edu
2-014

Moore, Ginger A.
ginger.moore@psu.edu
2-034 (58), 2-040 (6)

Morais, Maria D.
masalum@gmail.com
2-025 (56)

Morales, Santiago
sum260@psu.edu
2-025 (13)

Morandi, Francesco
morandi.francesco@teletu.it
2-025 (58)

Morasch, Katherine
kmorasch@gmail.com
1-038 (25), 2-025 (16)

Morgan, Gin
gmorgan@nmsu.edu
1-009 (27), 2-034 (27), 2-034 (31)

Morgan, James
james_morgan@brown.edu
2-005, 2-011 (31), 3-005

Moriguchi, Yusuke
moriguchi@juen.ac.jp
2-040 (48), 3-012 (53)

Morini, Giovanna
gmorini@umd.edu
2-025 (33), 2-034 (20), 3-014

Morisawa, Noriko
ichigo_0826_nonnon@yahoo.co.jp
1-033 (27)

Morita, Tomoyo
morita@nips.ac.jp
2-025 (55)

Morning, William
wmorning@ucmerced.edu
1-033 (54)

Morrison, Deborah G.
deborah.morrison@umit.maine.edu
1-009 (61), 2-011 (58), 3-012 (11),
3-023 (62), 3-023 (63)

Motley, Christine
christine.motley@
childrens.harvard.edu
2-040 (42)

Mou, Yi
ymgb6@mail.missouri.edu
2-025 (51)

Moulson, Margaret
mmoulson@psych.ryerson.ca
1-038 (57), 3-023 (49)

Moussavi, Vidda
vmoussav@terpmail.umd.edu
2-034 (33)

Muir, Lois
lois.muir@umontana.edu
3-012 (51)

Mulak, Karen E.
k.mulak@uws.edu.au
2-034 (15)

Mulvey, Kelly A.
klmulvey@umd.edu
3-025

Murdock, Danielle
eg7897@wayne.edu
1-015

Murdock, Kyle W.
kyle.murdoc@gmail.com
1-038 (39), 1-038 (59), 2-011 (48),
2-025 (61), 3-023 (54)

Murphy, Anne
annemurphy297203@aol.com
2-034 (62)

Murphy, April
aprilmurphy@gmail.com
3-005

Murphy, Laura E.
lmurphy@uthsc.edu
2-011 (70)

Musser, Erica D.
emusser@uoregon.edu
1-031

Muzik, Maria
muzik@med.umich.edu
3-010

Myers, Emily
emily.myers@uconn.edu
2-005

Myers, Michael M.
mmm3@columbia.edu
1-025 (1), 2-025 (2)

Author Index

Myowa-Yamakoshi, Masako

myowa@educ.kyoto-u.ac.jp
1-003, 1-033 (24), 1-038 (12),
2-025 (31), 2-040 (13)

Mäntymaa, Mirjami

mirjami.mantymaa@pshp.fi
2-011 (47), 2-011 (49)

Naber, Katharina

katharina.naber@googlemail.com
2-040 (54)

Naclerio, Catherine

catherinenaclerio@gmail.com
1-009 (3)

Nakamichi, Naoko

nnakamichi@mbe.nifty.com
1-033 (64)

Nakano, Shigeru

s-nakano@hoku-iryu-u.ac.jp
1-009 (47)

Nam, Young-Ja

young.nam@mail.mcgill.ca
2-025 (37)

Name, Algenys

algenys@gmail.com
3-012 (41)

Namy, Laura

lnamy@emory.edu
1-009 (29)

Narayan, Angela J.

naray076@umn.edu
1-036

Nardelli, Jacquelyn E.

jnardelli@worcester.edu
2-034 (59)

Natale, Elena

elena.natale@unimib.it
2-011 (2)

Nawrot, Elizabeth

nawrot@mnstate.edu
1-025 (9)

Nawrot, Mark

mark.nawrot@ndsu.edu
1-025 (9)

Nazzi, Thierry

thierry.nazzi@parisdescartes.fr
1-005, 2-005, 2-022, 2-025 (30),
2-034 (19), 2-040 (24), 2-040 (27),
3-021, 3-023 (12)

Neal-Beevers, A. Rebecca

nealr@psy.utexas.edu
1-009 (49), 1-033 (42), 3-012 (61)

Needham, Amy

amy.needham@vanderbilt.edu
1-038 (9), 1-038 (11), 2-025 (28),
2-034 (35)

Neiderhiser, Jenae M.

jenaemn@psu.edu
1-021, 2-034 (70)

Nelson, Charles A.

Charles.Nelson@
childrens.harvard.edu
2-018, 2-025 (8), 2-025 (57),
2-040 (42), 3-012 (10), 3-012 (49)

Nelson, Eliza

eliza_nelson@unc.edu
2-011 (6)

Neshteruk, Cody

cdn5036@psu.edu
3-023 (65)

Nespor, Marina

marina.nespor@unimib.it
2-022

Neuman, Susan B.

sbneuman@umich.edu
1-009 (14), 3-012 (31)

Newcombe, Nora

newcombe@temple.edu
1-007

Newland, Rebecca P.

rnewland@asu.edu
2-033

Newman, Louise

louise.newman@med.monash.edu.au
1-038 (68)

Newman, Rochelle S.

rnewman1@umd.edu
2-025 (33), 2-034 (20), 2-034 (33),
3-014

Newton, Emily

eknewton@ucdavis.edu
1-033 (65), 2-034 (66)

Ng, Laura

l_ngchi@live.concordia.ca
1-038 (51)

Ng Luna, Jessica L.

Jessica.Lauren.Ng@gmail.com
1-033 (11)

Nguyen, Bryan

bnguyen07@ucla.edu
2-034 (3)

Nichols, Sara

srn1@pitt.edu
2-034 (65), 3-012 (21)

Nigg, Joel

niggj@ohsu.edu
3-013

Nishibayashi, Léo-Lyuki

ll.nishibayashi@gmail.com
2-022

Noland, Julia S.

julia.noland@vanderbilt.edu
1-023

Noles, Erica C.

nolese@unlv.nevada.edu
2-040 (15)

Nomikou, Iris

inomikou@techfak.uni-bielefeld.de
2-001

Norcia, Anthony

amnorcia@stanford.edu
2-036

Noro, Emi

tyanoma-de-tchaikovsky@live.jp
1-009 (47)

Norr, Kathleen

knorr@uic.edu
1-009 (17), 2-011 (61), 3-024

Northrup, Jessie B.

jbn12@pitt.edu
1-025 (64), 2-035

Author Index

Norwood, Agatha
agatha.norwood@
childrens.harvard.edu
2-040 (42)

Nousen, L.
nousen12@up.edu
2-004

Novack, Miriam
mnovack1@gmail.com
1-033 (57)

Nugent, J. David
mr.nugent@gmail.com
1-025 (1)

Nylen, Kimberly
nylekimb@isu.edu
2-030

Nyström, Pär
par.nystrom@psyk.uu.se
1-033 (12)

O'Brien, Jennifer M.
jobrien86@gmail.com
2-011 (60)

O'Brien, Marion
m_obrien@uncg.edu
1-038 (69), 3-015

O'Connell, Laura J.
laurajoconnell@gmail.com
3-023 (68)

O'Connor, Tom
tom_oconnor@urmc.rochester.edu
3-001

O'Hearn, Ashley E.
aohearn@nmsu.edu
1-009 (27)

O'Neill, Amy
9ao19@queensu.ca
3-023 (29)

O'Regan, Kevin
jkevin.oregan@gmail.com
1-004, 1-013

O'Shea, Michael
moshea@wakehealth.edu
1-027

O'Shea, T. M.
moshea@wfubmc.edu
3-024

O'Toole, Kathryn
kotoole2@luc.edu
1-025 (7)

Oakes, Lisa M.
lmoakes@ucdavis.edu
1-038 (32)

Oakes, Lisa
lmoakes@ucdavis.edu
2-014, 2-034 (6), 2-034 (32)

Oczak, Sara
sara.oczak@utoronto.ca
3-021

Oddi, Kate
kate.odd@gmail.com
1-038 (39), 1-038 (59), 2-011 (48),
3-023 (41), 3-023 (54)

Odic, Darko
darko.odic@jhu.edu
3-023 (21)

Ogura, Tamiko
oguratami@tezukayama-u.ac.jp
1-025 (34)

Oh, Wonjung
wjoh@umich.edu
1-038 (45), 3-010

Okada, Hiroyuki
h.okada@eng.tamagawa.ac.jp
1-026, 2-034 (38), 2-040 (31)

Okumura, Yuko
yukororo@
l03.mbox.media.kyoto-u.ac.jp
1-033 (55), 3-012 (62)

Oller, D. K.
koller@memphis.edu
1-033 (40)

Olmos, Marina
marolmos@um.es
1-009 (37)

Olson, Ingrid
iolson@temple.edu
1-007

Olson, Janet
janet@niu.edu
1-033 (45)

Olson, Karen
Karen.Olson@childrens.harvard.edu
2-011 (68)

Omori, Takahide
omori@flet.keio.ac.jp
3-023 (18)

Omori, Takashi
omori@lab.tamagawa.ac.jp
2-034 (38)

Onishi, Kris
kris.onishi@mcgill.ca
1-006, 2-002

Onnis, Luca
luca@hawaii.edu
1-010

Oot, Emily
eno4@georgetown.edu
1-009 (31), 3-012 (68)

Oppenheimer, Julia E.
julia.oppenheimer@gmail.com
2-015

Oshima-Takane, Yuriko
yuriko@ego.psych.mcgill.ca
2-011 (24)

Osterholm, Erin
oste0123@umn.edu
1-025 (2)

Otero, Nancy
notero@stanford.edu
2-034 (22), 3-022

Otsuka, Yumiko
yumikoot@gmail.com
1-025 (69), 1-033 (16), 2-034 (4)

Otta, Emma
emmaotta@gmail.com
2-025 (56)

Otte, Renée
R.A.Otte@uvt.nl
1-003, 1-033 (18)

Oturai, Gabriella
Oturai@psych.uni-frankfurt.de
3-020

Author Index

Oudgenoeg-Paz, Ora
o.oudgenoeg@uu.nl
2-011 (4), 3-007

Overton, Jacqueline
jaacuna@ucdavis.edu
3-012 (5)

O'Donnell, Andrea
odonna@ohsu.edu
3-013

O'Hara, Michael
mike-ohara@uiowa.edu
2-030

Pal, Michelle
m.pal@uws.edu.au
1-012

Palmer, Federick B.
fpalmer@uthsc.edu
2-011 (70)

Palo, Amanda
apalo@siu.edu
2-025 (60)

Panneton, Robin
panneton@vt.edu
1-025 (15), 1-033 (41), 2-034 (2),
3-005, 3-012 (30), 3-023 (13)

Paquette-Smith, Melissa
m.paquette.smith@utoronto.ca
1-022, 3-023 (37)

Parade, Stephanie H.
stephanie_parade@brown.edu
3-023 (69)

Parise, Eugenio
eugenio@parise@tiscali.it
2-016

Parish-Morris, Julia
julia.parish.morris@gmail.com
3-012 (55)

Park, JoAnn
park119@illinois.edu
1-038 (27)

Park, Yoonjung
parkyoon@mail.nih.gov
1-009 (53), 2-034 (48)

Parker, Andrea C.
andrea.c.parker@ttu.edu
1-025 (58), 3-012 (50)

Parr, Lisa A.
lparr@emory.edu
1-038 (41), 3-012 (20)

Parsafar, Parisa
pp1027@nyu.edu
1-025 (57)

Pascalis, Olivier
Olivier.Pascalis@upmf-grenoble.fr
1-028, 2-040 (14), 3-011

Patel, Deepika
deepika.patel@colorado.edu
2-040 (52)

Paterson, Sarah J.
PATERSONS@email.chop.edu
3-012 (55)

Patriquin, Michelle
michelle.patriquin@vt.edu
2-029

Patton, Leslie A.
lapatton@vt.edu
1-033 (50)

Patton, Leslie A.
zlak10@goldmail.etsu.edu
2-034 (28)

Pauen, Sabina M.
sabina.pauen@
psychologie.uni-heidelberg.de
1-009 (6), 2-011 (66), 2-025 (18),
2-027, 3-012 (8), 3-012 (39)

Paul, Ian M.
ipaul@hmc.psu.edu
3-015

Paul, Jonathan A.
japaul@utmb.edu
3-012 (11)

Paulus, Markus
markus.paulus@lmu.de
1-009 (25), 1-019, 1-033 (59), 2-006

Peltola, Mikko
mikko.peltola@uta.fi
2-011 (47), 2-011 (49)

Pena, Jamila
jampena@eden.rutgers.edu
3-023 (64)

Pereira, Alfredo F.
afpereir@indiana.edu
2-036

Perez, Albany
ap2439@columbia.edu
1-025 (1), 2-025 (2)

Perez-Edgar, Koraly
kxp24@psu.edu
2-025 (15)

Perone, Sammy
sammy-perone@uiowa.edu
2-023, 3-023 (57)

Perry, Nicole B.
nebrown3@uncg.edu
2-008, 3-023 (46)

Perst, Hannah
Hannah.Perst@psy.lmu.de
1-009 (19), 1-033 (59), 2-025 (62),
3-023 (42)

Pervez, Aqsa
dw7673@wayne.edu
1-015

Peters, Thomas
thomas.peters1@
stud.uni-goettingen.de
2-040 (54)

Peterson, Ashlei M.
ashlei.peterson.713@gmail.com
3-012 (15)

Peterson, Mary A.
mapeters@email.arizona.edu
1-033 (49)

Petro, Gina
petro.gina@gmail.com
1-033 (54)

Pfeifer, Jennifer
jpfeifer@uoregon.edu
1-033 (17)

Phan, Jennifer
jphan@iupui.edu
3-021

Author Index

Phan, K. L.

luan@med.umich.edu
3-010

Philbrook, Lauren

lzp125@psu.edu
1-025 (53), 1-034, 3-012 (3)

Phung, Janice

jnphung@uci.edu
3-023 (20)

Phung, Jeffrey V.

jvphung@ucdavis.edu
1-038 (32)

Pianta, Robert

rcp4p@virginia.edu
2-040 (67)

Piantadosi, Steven

spiantado@gmail.com
1-035, 2-023

Pick, Herbert L.

herbpick@umn.edu
3-017

Pickler, Rita H.

rita.pickler@cchmc.org
3-023 (56)

Picozzi, Marta

marta.picozzi1@unimib.it
2-011 (2), 2-040 (16)

Piemonte, Jennifer

j.piemonte@u.northwestern.edu
2-040 (45)

Pietraszewski, David

david.pietraszewski@yale.edu
1-016

Pietz, Joachim

joachim.pietz@med.uni-heidelberg.de
3-023 (58)

Pillai Riddell, Rebecca

rpr@yorku.ca
1-002, 1-038 (66), 2-034 (64)

Pine, Julian M.

julian.pine@liverpool.ac.uk
2-034 (21)

Pineda, Melannie

melanniepineda@hotmail.com
1-038 (47)

Pinkham, Ashley M.

pinkhama@umich.edu
1-009 (14), 3-012 (31)

Piotrowski, Jessica T.

jtaylor@asc.upenn.edu
2-034 (67)

Pitts, Casey

cep296@nyu.edu
1-033 (38)

Piwek, Lukasz

l.piwek@psy.gla.ac.uk
1-009 (35)

Planalp, Elizabeth M.

eplanalp@nd.edu
1-038 (44)

Pleuss, Jessica

pleu0002@umn.edu
1-025 (38), 1-025 (39)

Pluess, Michael

mpluess@ucdavis.edu
2-030

Plunkett, Kim

kim.plunkett@psy.ox.ac.uk
1-009 (41), 1-033 (43), 2-025 (43),
2-040 (23)

Poehlmann, Julie

Poehlmann@waisman.wisc.edu
1-033 (67), 1-034, 2-037

Poggi Davis, Elysia

edavis@uci.edu
2-030

Polka, Linda

linda.polka@mcgill.ca
1-017, 1-033 (41), 2-025 (37),
3-023 (14)

Pollick, Frank

f.pollick@psy.gla.ac.uk
1-009 (35)

Poltrock, Silvana

poltrocks@gmail.com
2-022, 2-025 (30), 2-034 (19)

Polyak, Daniella

daniella.polyak@gmail.com
3-012 (52)

Porayska-Pomsta, Kaska

K.Porayska-Pomsta@ioe.ac.uk
1-020

Porges, Stephen

sporges@uic.edu
2-029

Porter, Chris L.

chris_porter@byu.edu
1-025 (67), 1-025 (68)

Posid, Tasha I.

tasha.posid@bc.edu
2-011 (43)

Potapova, Natalia

natalia.potapova@email.wsu.edu
2-034 (68)

Poteat, Tiffany

tiffanypoteat@yahoo.com
2-011 (5)

Potegal, Michael

poteg001@umn.edu
1-009 (45)

Poulin-Dubois, Diane

diane.pouлиндubois@concordia.ca
1-009 (38), 2-011 (32), 2-040 (53)

Powell, Darcey N.

Darcey.Powell@mail.wvu.edu
1-033 (68), 2-034 (60), 2-040 (61)

Powell, Lindsey

ljpowell@fas.harvard.edu
2-034 (54)

Power, Michelle

mpower@stfx.ca
1-025 (51)

Premo, Julie E.

premoje@muohio.edu
1-021, 1-038 (53)

Pridham, Karen

kpridham@wisc.edu
2-011 (54)

Prinz, Wolfgang

prinz@cbs.mpg.de
2-040 (12)

Pritchard, Margo

m.pritchard@uq.edu.au
1-038 (68)

Author Index

Proietti, Valentina
v.proietti@campus.unimib.it
2-025 (24), 2-040 (16)

Propper, Cathi B.
propper@email.unc.edu
3-012 (13), 3-023 (47)

Provenzi, Livio
livio.provenzi@bp.lnf.it
2-025 (58)

Pruden, Shannon M.
sdick@fiu.edu
2-013, 3-012 (41)

Puente-Duran, Sofia
s.puenteduran@utoronto.ca
2-040 (9)

Pulverman, Rachel
rpulverm@gmail.com
3-012 (55)

Putnam, Samuel P.
sputnam@bowdoin.edu
1-038 (50), 2-034 (69), 3-012 (57)

Putnick, Diane L.
putnickd@mail.nih.gov
3-012 (67), 3-023 (48)

Puura, Kaija
kaija.puura@uta.fi
2-011 (47), 2-011 (49)

Qin, Wenjuan
weq004@mail.harvard.edu
1-009 (13)

Quam, Carolyn
cmquam@gmail.com
3-023 (19)

Quek, Xin Rui
u0901845@nus.edu.sg
2-025 (36)

Quinn, Paul
pquinn@udel.edu
1-028, 2-040 (14), 3-011

Raby, Lee
rabyx006@umn.edu
1-036

Racine, Nicole
racinen@yorku.ca
1-002, 1-038 (66), 2-034 (64)

Racine, Timothy P.
tracine@sfu.ca
1-009 (51)

Rader, Nancy D.
rader@ithaca.edu
1-038 (20)

Raijmakers, Maartje E.
m.e.j.raijmakers@uva.nl
1-009 (26), 1-033 (48)

Raj, Vinaya
vraj318@vt.edu
1-033 (13)

Rakison, David
rakison@cmu.edu
3-009

Rakoczy, Hannes
hrakocz@gwdg.de
1-032, 1-038 (24), 2-011 (34),
2-011 (39), 2-025 (53), 2-034 (13),
2-034 (39), 2-034 (40), 2-040 (47),
2-040 (54)

Ramenzoni, Veronica C.
vramenzoni@gmail.com
1-009 (21), 3-023 (38)

Ramos, Isabel
iaramos@eden.rutgers.edu
1-038 (63), 3-023 (64)

Rancourt, Hilary
7hr4@queensu.ca
1-009 (60)

Ranganathan, Sujeet
sujee@udel.edu
1-009 (12)

Rankin, Kristin
krankin@uic.edu
1-009 (17), 1-033 (7), 2-011 (61),
3-024

Rapee, Ron
ron.rapee@mq.edu.au
1-038 (3)

Rat-Fischer, Lauriane
lratfischer@gmail.com
1-004, 1-013

Ratner, Nan
nratner@umd.edu
3-014

Raudies, Florian
fraudies@bu.edu
2-040 (19)

Reader, Jonathan M.
jreade89@gmail.com
1-025 (62)

Redahan, Sara
sredahan@tulane.edu
2-040 (5)

Reddy, Vasu
Vasu.Reddy@port.ac.uk
1-033 (2), 2-011 (1)

Reeb-Sutherland, Bethany C.
bethanyreeb@gmail.com
1-025 (14)

Reed, Jessa
jreed@temple.edu
3-012 (35)

Reese, Elaine
ereese@psy.otago.ac.nz
2-034 (49)

Regolin, Lucia
lucia.regolin@unipd.it
2-011 (44), 2-025 (25), 2-025 (52),
3-012 (18)

Reid, Vincent M.
vincent.reid@durham.ac.uk
1-014, 1-019, 1-038 (56), 2-011 (12),
2-034 (1)

Reinecke, Katie
kreine4@uic.edu
1-009 (17)

Reiss, David
dxreiss@earthlink.net
1-021, 2-034 (70)

Reissland, Nadja
n.n.reissland@durham.ac.uk
1-003

Ren, Jie
Jie_Ren@Brown.Edu
3-005

Rendall, Drew
d.rendall@uleth.ca
1-012

Author Index

Rennels, Jennifer L.
jennifer.rennels@unlv.edu
1-028, 2-025 (22), 2-040 (15)

Repacholi, Betty
bettyr@u.washington.edu
2-040 (63)

Ressel, Volker
volker.ressel@upf.edu
2-034 (25)

Reuben, Julia
jdr2116@gmail.com
3-012 (52)

Reuner, Gitta
gitta.reuner@med.uni-heidelberg.de
3-023 (58)

Reyna, Barbara
breyna@vcu.edu
3-023 (56)

Reynolds, Greg
greynol3@utk.edu
1-033 (14), 2-011 (14)

Rhee, Hye-Young
hur119@psu.edu
1-009 (54), 1-034, 2-040 (57),
3-023 (40)

Rhee, Soo H.
Soo.Rhee@colorado.edu
2-040 (52)

Richards, Jeffrey A.
jeffrichards@lenafoundation.org
1-038 (22), 2-011 (29)

Richards, John E.
richards-john@sc.edu
1-008, 1-033 (21), 3-012 (9)

Richardson, Patricia
panri@med.umich.edu
3-010

Richmond, Jenny
jennyrichmond@gmail.com
1-007

Ridge, Katherine
katherineridge@gmail.com
1-033 (25)

Rigato, Silvia
s.rigato@gold.ac.uk
1-009 (5), 2-025 (14)

Righi, Giulia
grighi@gmail.com
3-012 (10)

Riksen-Walraven, Marianne
m.riksen@psych.ru.nl
1-025 (42), 1-038 (50)

Rips, Lance
rips@northwestern.edu
1-033 (32), 2-040 (45)

Rivière, James
james.riviere@univ-rouen.fr
3-007

Robbins, Arryn
arobbins@nmsu.edu
2-034 (27)

Robbins, Erin
eerobbi@emory.edu
1-038 (41), 3-012 (20)

Robbins, Rachel
dr.r.robbins@gmail.com
1-028

Roben, Caroline K.
pemberton@psu.edu
3-012 (59)

Robertson, Steven
ssr4@cornell.edu
1-033 (4)

Robinson, Christopher W.
robinson.777@psy.ohio-state.edu
1-007, 1-025 (6), 2-025 (44), 3-009

Robson, Scott J.
9sr58@queensu.ca
1-038 (35)

Rocha, Nelci Adriana C.
acicuto@gmail.com
2-040 (8)

Rochat, Philippe
psypr@emory.edu
1-038 (41), 3-012 (20), 3-017

Rochette, Emilie
emilie.rochette@umontreal.ca
2-037

Rodman, Lauren
laurenrodman14@yahoo.com
2-025 (61)

Rodrigues, Nikita
nikitar@umd.edu
1-025 (14)

Rodriguez, Monica N.
mrodr0625@gmail.com
3-023 (36)

Roessler, Abeba
abeba.roessler@upf.edu
1-025 (21)

Rogers, Samantha L.
sxr822@bham.ac.uk
1-009 (64), 1-009 (65), 2-011 (67)

Rohlfing, Katharina J.
kjr@uni-bielefeld.de
2-001, 2-024, 3-008

Roisman, Glenn I.
roisman@illinois.edu
1-018, 1-031, 2-019

Romberg, Alexa R.
aromberg@indiana.edu
1-038 (19), 2-040 (30)

Roogow, Robyn
xxx@xxx.xxx
2-025 (38)

Rosa Salva, Orsola
orsola.rosasalva@unitn.it
2-025 (25), 3-012 (18)

Rosander, Kerstin
Kerstin.Rosander@psyk.uu.se
1-004

Rosati, Alexandra G.
alexandra.rosati@duke.edu
2-003, 2-025 (49), 2-040 (35)

Rosenbaum, David A.
rosenb13@gmail.com
2-040 (10)

Rosenberg, Lauren
lbrosenb@umich.edu
1-038 (45)

Rosenberg, Rebecca D.
rosenbergr@denison.edu
2-040 (43)

Author Index

Rosenblum, Katherine L.

katier@umich.edu
3-010

Rosengren, Karl S.

k-rosengren@northwestern.edu
1-033 (51), 2-025 (48)

Rosenthal, Erica

erica.rosenthal@gmail.com
2-034 (62)

Ross, Robbie A.

robbier@uoregon.edu
2-034 (37)

Ross-Sheehy, Shannon

shannon-ross@uiowa.edu
3-023 (57)

Rossi, Lauren

eb7412@wayne.edu
1-015

Rossmiller-Giesing, Whitney

whitneyraye9286@gmail.com
2-040 (58)

Rostad, Whitney

whitney.rostad@umontana.edu
2-028

Rothkopf, Constantin

rothkopf@fias.uni-frankfurt.de
1-020

Roubinov, Danielle S.

droubino@asu.edu
2-033

Rouse, Matthew

mrouse@emory.edu
2-029, 3-027

Rousseau, Sofie

Sofie.Rousseau@ped.kuleuven.be
3-023 (22)

Rowe, Hillary

hlrowe@gmail.com
2-040 (63)

Rugani, Rosa

rosa.rugani@unipd.it
2-025 (52)

Ruprecht, Karen M.

ruprechk@purdue.edu
1-025 (37), 2-011 (46)

Russell, Beth S.

bethsrussell@gmail.com
1-009 (58)

Russo, Frank

russo@psych.ryerson.ca
3-012 (70)

Rutherford, Helena

helena.rutherford@yale.edu
1-038 (39)

Rutherford, Mel

rutherm@mcmaster.ca
1-038 (35), 2-011 (19)

Ryan, Donna

ryan0004@mc.duke.edu
1-027, 3-024

Saby, Joni N.

joni.saby@temple.edu
1-019, 1-033 (25), 2-006

Safar, Kristina

ksafar@psych.ryerson.ca
1-038 (57), 3-023 (49)

Saffran, Jenny

jsaffran@wisc.edu
2-010, 2-013, 2-040 (56)

Sage, Kara D.

kara@uoregon.edu
1-013, 2-034 (37)

Saini, Rachita

saini_rachita@hotmail.com
1-009 (30)

Saito, Akira

saito-a@tsurumi-u.ac.jp
2-025 (10)

Sakkalou, Elena

e.sakkalou@ucl.ac.uk
1-016, 1-033 (34), 2-011 (51), 2-017,
2-031

Salisbury, Amy L.

amy_salisbury@brown.edu
2-025 (1)

Salley, Brenda

brendasalley@ku.edu
1-009 (49)

Sallquist, Julie

Julie.Sallquist@asu.edu
1-025 (36)

Salomon, Sarah

fbgymnastics@yahoo.com
2-040 (34)

Salomoni, Elisa

esalomoni@fgcu.edu
1-025 (16)

Sameroff, Arnold

sameroff@umich.edu
1-036

Sampath, Vanitha

vsampath@ucsd.edu
1-009 (10)

Samuel, Simcha

simcha9999@gmail.com
2-011 (24)

Samuelson, Larissa K.

larissa-samuelson@uiowa.edu
2-023, 3-012 (43), 3-022

Sanborn, Sarah M.

sarah.sanborn@uconn.edu
1-025 (56), 1-033 (46)

Sanders, Kristen W.

kristen.sanders@emory.edu
1-038 (41)

Sandhofer, Catherine

sandhof@psych.ucla.edu
2-011 (26), 2-034 (12)

Sandman, Curt

casandma@uci.edu
2-004, 2-030

Sandoval, Michelle

msandoua@email.arizona.edu
2-034 (16)

Santos, Laurie R.

laurie.santos@yale.edu
2-003, 2-011 (40)

Santos, Luiz S.

luizsilvadosantos@usp.br
2-025 (56)

Santos, Tamara

tsantos@fgcu.edu
1-025 (16)

Author Index

Sapotichne, Brenna

bfsapoti@uno.edu
3-012 (65)

Sarrett, McCall

mccall.sarrett@gmail.com
1-029

Sastre, Marcos

msastre3@gmail.com
2-040 (39)

Sather, Anna

annasather@gmail.com
3-023 (52)

Saucke, Liane

liane.saucke@gmail.com
2-011 (39)

Saunders, Katya

ksaunders@rucss.rutgers.edu
3-025

Savage, Jennifer S.

jfs195@psu.edu
3-023 (65)

Saxena, Priya L.

Priyas08@vt.edu
1-025 (15)

Scaramella, Laura

lscarame@uno.edu
3-012 (65)

Scarpa, Angela

ascarpa@vt.edu
2-029

Schaal, Benoist

benoist.schaal@u-bourgogne.fr
1-009 (4)

Schappin, Renske

r.schappin@umcutrecht.nl
1-027

Schauss, Eraina

eschauss@tuci.org
2-011 (70)

Scher, Anat

anats@edu.haifa.ac.il
2-040 (3)

Schiek-Gamble, Caroline

cshiekgamble@gmail.com
3-012 (52)

Schlottmann, Anne

a.schlottmann@ucl.ac.uk
1-009 (35)

Schmale, Rachel

rschmale@northpark.edu
3-021

Schmidt, Marco F.

marco_schmidt@eva.mpg.de
1-032, 2-025 (53), 2-034 (39)

Schmitt, Emma

ewschmitt@vt.edu
2-040 (44)

Schmuckler, Mark A.

marksch@utsc.utoronto.ca
1-025 (31), 1-038 (7), 2-034 (8),
2-040 (20)

Schohl, Kirsten

kirsten.schohl@mu.edu
2-029

Scholl, Brian

brian.scholl@yale.edu
1-006

Schoppe-Sullivan, Sarah

sschoppe-sullivan@ehe.osu.edu
1-024, 2-040 (58), 3-012 (64),
3-023 (66)

Schreiber, Jessica

schreiber.jessicae@gmail.com
1-033 (15)

Schröder, Caroline

caroline.schroeder@uni-potsdam.de
1-005

Schubert, Holly

hshubert4@gmail.com
2-011 (48), 3-023 (41), 3-023 (54)

Schuck, Rachel K.

rachelschuck@berkeley.edu
2-034 (46)

Schuetze, Pamela

schuetp@buffalostate.edu
1-009 (55), 1-025 (3), 3-023 (61)

Schuler, Jena

jena.blegen@ndsu.edu
2-034 (30)

Schulz, Laura E.

lschulz@mit.edu
3-004

Schwade, Jennifer A.

jen.schwade@cornell.edu
1-001, 1-025 (19), 2-009, 2-040 (49),
3-023 (17)

Schwartz, Laya

laya.schwartz@gmail.com
1-025 (24)

Schwartz, Rachel

rschwartz@trinity.edu
2-040 (33), 3-012 (33)

Schwartzman, Alex E.

alex.schwartzman@concordia.ca
3-012 (60)

Schwarzer, Gudrun

gudrun.schwarzer@psychol.uni-
giessen.de
2-007, 2-020, 3-026

Schwichtenberg, Amy Jo (A.J.)

ajschwichtenberg@ucdavis.edu
1-034

Schwytay, Jeannine

jeannine.schwytay@uni-potsdam.de
2-022

Schönebeck, Maria

maria.schoenebeck@uni-potsdam.de
2-040 (18)

Scola, Céline

celine.scola@univ-provence.fr
1-025 (66)

Scott, Lisa

lscott@psych.umass.edu
1-023, 2-027

Scott, Rose M.

rscott@ucmerced.edu
1-033 (53), 1-033 (54)

Scott, Syreeta

sscott21@emich.edu
1-038 (54)

Seal, Brenda C.

brenda.seal@gallaudet.edu
3-019

Author Index

Sebastián-Gallés, Núria
nuria.sebastian@upf.edu
1-025 (21), 2-034 (25)

Segalowitz, Sidney
sid.segalowitz@brocku.ca
1-028

Seidenberg, Mark
seidenberg@wisc.edu
2-013

Seidl, Amanda
aseidl@purdue.edu
2-040 (29), 3-021, 3-023 (13)

Seifer, Ronald
ronald_seifer@brown.edu
3-023 (69)

Senehi, Neda
neda.senehi.0@my.csun.edu
2-015, 3-023 (45)

Senju, Atsushi
a.senju@bbk.ac.uk
3-008

Senna, Irene
irenesenna@yahoo.it
2-011 (2)

Serbin, Lisa A.
lisa.serbin@concordia.ca
3-012 (60)

Sethuraman, Nitya
nitya@unich.umd.edu
2-040 (55)

Setoh, Peipei
setoh1@illinois.edu
1-033 (53), 1-033 (54)

Seyed Nozadi, Sara
sseyedno@asu.edu
1-025 (36)

Shafto, Carissa L.
carissa.shafto@gmail.com
3-012 (17)

Shah, Prachi E.
prachis@umich.edu
1-034, 2-037

Shankaran, Seetha
sshankar@med.wayne.edu
1-009 (49), 2-029, 3-013

Shaoul, Karina
shaoul@udel.edu
1-038 (21)

Shapka, Jennifer
jennifer.shapka@ubc.ca
3-023 (44)

Shaw, Daniel S.
casey@pitt.edu
1-021, 2-034 (70)

Shaw, Kathleen
kathleen.shaw@huskymail.uconn.edu
1-025 (17)

Sheinkopf, Stephen J.
Stephen_Sheinkopf@brown.edu
1-009 (49)

Sheinkopf, Steve
SSheinkopf@WIHRI.org
2-029

Shepard, Kate G.
kateshepard@utdallas.edu
2-025 (23)

Shi, Rushen
shi.rushen@uqam.ca
1-005, 1-009 (12), 1-022

Shimizu, Mina
mos5370@psu.edu
1-009 (54), 1-034, 2-034 (61),
2-040 (57)

Shinohara, Ikuko
shinoiku@asu.aasa.ac.jp
2-040 (48), 3-012 (53)

Shiple, Thomas F.
tshiple@temple.edu
2-006

Shneidman, Laura A.
lauras@uchicago.edu
1-001, 1-033 (52)

Shrestha, Hira
hira.shrestha@umit.maine.edu
1-009 (61), 2-011 (58), 3-012 (11),
3-023 (62), 3-023 (63)

Shuler, John
jts77@georgetown.edu
2-034 (24)

Shuwairi, Sarah M.
sms425@nyu.edu
1-033 (26)

Sidhu, Raychelle
raychelle.sidhu@uqconnect.edu.au
1-038 (68)

Siler, Katherine
ksiler@niu.edu
1-038 (39)

Silvia, Grace
grace.silvia@umconnect.umt.edu
2-028

Sim, Zi Lin
zilin@berkeley.edu
1-035

Simion, Francesca
francesca.simion@unipd.it
2-011 (13), 2-011 (44)

Simonin, Christine
262005@foad.iedparis8.net
3-023 (31)

Singer, Samantha
bb0903@wayne.edu
1-009 (18)

Singh, Leher
leher.singh@nus.edu.sg
2-025 (33), 2-025 (35), 2-025 (36)

Singleterry, Lisa
single30@msu.edu
1-009 (52)

Slater, Alan M.
A.M.Slater@exeter.ac.uk
3-011, 3-023 (5)

Sloane, Stephanie
ssloane2@illinois.edu
2-019, 2-034 (52), 3-023 (35)

Sloutsky, Vladimir
sloutsky@psy.ohio-state.edu
1-007, 1-009 (40), 1-025 (6),
2-025 (44), 3-009

Slugocki, Christopher
slugocc@gmail.com
2-025 (7)

Author Index

Smith, Ashley K.
Ashley.K.Smith@colorado.edu
2-040 (52)

Smith, Cynthia L.
smithcl@vt.edu
3-006

Smith, Linda B.
smith4@indiana.edu
1-001, 2-036, 2-040 (30), 3-009,
3-012 (47), 3-014, 3-016, 3-022,
3-023 (25), 3-026

Smith, Nicholas A.
nicholas.smith@boystown.org
1-009 (20), 1-038 (70)

Smith, Tim
tj.smith@bbk.ac.uk
1-014

Snidman, Nancy H.
nancy.snidman@
childrens.harvard.edu
3-012 (56)

Soderstrom, Melanie
M_Soderstrom@umanitoba.ca
1-005, 2-011 (22)

Sodian, Beate
Beate.Sodian@psy.lmu.de
1-009 (19), 1-033 (59), 2-025 (62),
3-023 (42)

Sohail, Juwairia
juwairia.sohail@utoronto.ca
2-010

Sommerville, Jessica
sommej@uw.edu
1-033 (1), 2-034 (42)

Somogyi, Eszter
somogyi.eszter@ppk.elte.hu
2-026

Song, Hyun-joo
hsong@yonsei.ac.kr
2-011 (53), 3-012 (14), 3-012 (38)

Song, Vivian M.
vms255@nyu.edu
2-025 (20)

Sorondo, Barbara M.
bmsorondo@gmail.com
3-023 (36)

Sorrells, Maureen
mmille83@uthsc.edu
2-011 (70)

Soska, Kasey C.
kcsoska@Virginia.EDU
2-025 (45)

Southgate, Victoria
v.southgate@bbk.ac.uk
1-033 (6), 2-002, 2-011 (50), 2-026

Sozzer, Fatima
fsozzer@gmail.com
2-025 (48)

Spangler, Sibylle
sibspa@yahoo.de
2-020

Spector, Ferrinne
Ferrinne@gmail.com
1-026

Spehar, Branka
b.spehar@unsw.edu.au
1-025 (69)

Spelke, Elizabeth
espelke@gmail.com
1-033 (58), 1-038 (40), 2-034 (54),
2-040 (36), 3-017

Spence, Brian J.
spence.122@buckeyemail.osu.edu
2-025 (44)

Spence, Melanie J.
mspence@utdallas.edu
2-025 (23), 2-040 (34)

Spencer, John P.
john-spencer@uiowa.edu
3-023 (57)

Sperotto, Rebecca G.
sperottorg@cardiff.ac.uk
1-016, 1-033 (61), 2-011 (51)

Sperry, Douglas E.
douglassperry@hotmail.com
1-038 (42)

Sperry, Linda L.
linda.sperry@indstate.edu
1-038 (42)

Spinrad, Tracy L.
tspinrad@asu.edu
1-025 (36), 3-012 (12)

Spivey, Leigh A.
leigh.spivey@duke.edu
2-011 (37), 2-025 (47)

Spring, Jo
j.spring@lancaster.ac.uk
3-023 (5)

Spring, Meghan
meghan.spring@mail.mcgill.ca
2-040 (26)

Sravish, Akhila V.
akhilav@gmail.com
3-002, 3-012 (63)

Srinivasan, Sudha
sudha8383@gmail.com
1-038 (61), 1-038 (62)

Sroufe, Alan
srouf001@umn.edu
1-036

Stack, Dale M.
dale.stack@concordia.ca
1-038 (51), 3-012 (60)

Stacks, Ann
amstacks@wayne.edu
1-009 (18)

Stahl, Aimee
aimeestahl@gmail.com
1-009 (12), 1-038 (21), 3-012 (45)

Stahl, Daniel
Daniel.r.stahl@kcl.ac.uk
1-014

Stansbury, Kathy E.
stansbu2@msu.edu
1-009 (46), 3-023 (45)

Stapel, Janny
j.c.stapel@donders.ru.nl
2-025 (4)

Stark, Siewli
siewlis@gmail.com
1-025 (8)

Starr, Ariel
ariel.starr@duke.edu
2-011 (42), 3-023 (8), 3-023 (23)

Author Index

Stauble, Melissa R.

stauble@nmsu.edu
2-034 (31)

Stavans, Maayan

stavans2@illinois.edu
3-023 (26)

Steele, Howard

hsteele@newschool.edu
2-034 (62)

Steele, Miriam

msteele@newschool.edu
2-034 (62)

Steenis, Leonie

l.j.p.steenis@uu.nl
2-011 (69)

Stefanatos, Arianna K.

akstefanatos@utexas.edu
1-033 (42), 3-012 (61)

Steinman, Christina

cbsteinm@umich.edu
3-012 (32)

Stepp, Stephanie

steppsd@upmc.edu
1-015

Stergiou, Nicholas

nstergiou@unomaha.edu
1-033 (5), 2-011 (7), 2-011 (8)

Sternschein, Samantha

ssternschein93@gmail.com
3-012 (49)

Stets, Manuela

manuela.stets@durham.ac.uk
1-014, 2-034 (1)

Stevens, Bonnie

b.stevens@utoronto.ca
1-002

Stevens, Corinne

stevecor@ohsu.edu
3-013

Stevens, Michael

stevensml@mailbox.sc.edu
1-033 (21)

Stevens, Sheryl

sheryl.stevens@mu.edu
2-029

Stewart, Krissy

krissystewart821@gmail.com
2-025 (61)

Stifter, Cynthia A.

tvr@psu.edu
1-025 (55), 1-025 (60), 3-006, 3-015,
3-023 (53)

Stoffregen, Nicole

nicole-stoffregen@gmx.de
2-011 (39)

Stone, Sarah A.

sahlander@gmail.com
1-025 (67), 1-025 (68)

Strickland, Brent

brent.strickland@yale.edu
1-006

Strid, Karin

karin.strid@gu.se
2-040 (65)

Stright, Ann D.

astreight@indiana.edu
2-037

Stroud, Laura R.

lstroudri@gmail.com
1-038 (2)

Strouse, Gabrielle

gabrielle.a.strouse@vanderbilt.edu
1-038 (9), 2-034 (35)

Stubbs, Jessica A.

jessica.stubbs02@gmail.com
2-034 (7), 3-023 (51)

Studte, Kristin

kristin.studte@stud.uni-goettingen.de
2-040 (47)

Styles, Suzy

suzy.styles@psy.ox.ac.uk
1-033 (43), 2-025 (43)

Subiaul, Francys

subiaul@gwu.edu
1-009 (24)

Sugden, Nicole

nsugden@ryerson.ca
3-023 (49)

Suhrke, Janina

janina.suhrke@googlemail.com
3-023 (30)

Sulik, Michael J.

msulik@asu.edu
1-025 (36), 3-012 (12)

Sullivan, Elinor

sullivae@up.edu
2-004

Sullivan, Jennifer

jfsulliv@stfx.ca
1-038 (18)

Sullivan, Margaret W.

sullivan@umdnj.edu
2-008, 2-011 (57)

Summers, Berta J.

berta.summers@duke.edu
1-009 (23)

Sundara, Megha

megha.sundara@humnet.ucla.edu
2-034 (17), 3-012 (29)

Sundberg, Ulla

ulla.sundberg@ling.su.se
2-040 (25)

Suomi, Stephen J.

suomis@mail.nih.gov
2-018

Surian, Luca

luca.surian@unitn.it
2-040 (65)

Susman-Stillman, Amy

asusman@umn.edu
1-025 (38), 1-025 (39)

Sutherland, Shelbie

ssuther2@illinois.edu
1-038 (26)

Sutton, Megan

suttonm2@umd.edu
3-012 (26)

Suwalsky, Joan T.

suwalskj@mail.nih.gov
1-009 (53), 3-012 (67), 3-023 (48)

Svetlova, Margarita

mas53@pitt.edu
2-034 (65), 3-012 (21)

Author Index

Swain, James E.
jameswa@med.umich.edu
1-033 (23), 3-010

Swan, Kristen
k.swan@bbk.ac.uk
2-040 (50), 3-016

Swingler, Margaret M.
mmswingl@uncg.edu
2-008

Swingley, Daniel
swingley@psych.upenn.edu
2-005, 2-040 (22), 3-014

Syed, Nazia
nazsyed187@gmail.com
2-011 (3)

Szivek, Nicole
nszivek@email.arizona.edu
2-034 (11)

Tada, Hiroshi
tadah@mta.biglobe.ne.jp
2-025 (10)

Tager-Flusberg, Helen
htagerf@bu.edu
1-025 (63), 3-012 (49)

Takahashi, D.
takahasd@ohsu.edu
2-004

Takahashi, Hideyuki
hideman@lab.tamagawa.ac.jp
2-034 (38)

Takeshita, Hideko
hideko@shc.usp.ac.jp
1-003

Tam, Jun Hui
u0802631@nus.edu.sg
2-025 (35)

Tamis-LeMonda, Catherine
catherine.tamis-lemonda@nyu.edu
2-031

Tanaka, James W.
jtanaka@uvic.ca
3-011

Tanaka, Rika
Rika.Tanaka@asu.edu
2-033

Tanaka, Yukari
yucari.carol@gmail.com
2-025 (31)

Tangi, Ronit
ronit_tngi@walla.com
1-025 (22)

Tardif, Twila
twila@umich.edu
3-012 (32), 3-023 (16)

Taubert, Jessica
jtaubert@emory.edu
1-038 (41), 3-012 (20)

Taumoepeau, Mele
mele@psy.otago.ac.nz
2-034 (49)

Tavian, Daniela
daniela.tavian@unicatt.it
2-025 (58)

Tay, Fann
u0901598@nus.edu.sg
2-025 (36)

Taylor, Gemma
pcp10gt@sheffield.ac.uk
2-034 (29)

Taylor, Zoe
zetaylor@asu.edu
3-012 (12)

Teglas, Erno
teglase@ceu.hu
1-020, 2-026, 3-012 (36)

ten Bosch, Louis
L.tenBosch@let.ru.nl
1-033 (39)

Tenenbaum, Joshua
jbt@MIT.EDU
1-035

Tessaro, Fiorino
tessaro@univr.it
3-012 (46)

Test, Joan
JoanTest@MissouriState.edu
2-040 (62)

Teti, Douglas
dmt16@psu.edu
1-009 (54), 1-009 (63), 1-024,
1-025 (62), 1-034, 1-038 (67),
2-034 (61), 2-040 (57), 3-012 (3),
3-023 (40)

Teubert, Manuel
manuel-teubert@uni-bielefeld.de
2-020

Tham, Diana Su Y.
s.tham@lancaster.ac.uk
3-023 (2)

Thierry, Guillaume
g.thierry@bangor.ac.uk
1-026

Thiessen, Erik
thiessen@andrew.cmu.edu
1-010

Thoermer, Claudia
Claudia.Thoermer@psy.lmu.de
1-009 (19), 1-033 (59), 2-025 (62),
3-023 (42)

Thomas, Elizabeth
elizabeth.thomas@u-bourgogne.fr
2-040 (17)

Thomas, Kathleen M.
thoma114@umn.edu
1-009 (62), 1-033 (56)

Thomason, Elizabeth
lizzyb@umich.edu
1-038 (45), 2-011 (62), 3-010

Thompson, Laura A.
thompson@nmsu.edu
1-009 (27), 2-034 (27), 2-034 (31)

Thompson, Meagan
mrt@bu.edu
1-025 (63)

Thompson, Ross A.
rathompson@ucdavis.edu
1-018, 1-033 (65), 2-034 (66)

Tice, Marisa P.
middyp@stanford.edu
2-024

Ticini, Luca
ticini@cbs.mpg.de
1-019

Author Index

Tidemann, Ida

idat.tidemann@gmail.com
1-004

Tincoff, Ruth

ruth.tincoff@bucknell.edu
2-025 (38)

Todd, James T.

jtodd@fiu.edu
1-009 (3), 3-023 (36)

Tomasello, Michael

tomas@eva.mpg.de
1-013, 1-025 (40), 1-032, 1-033 (37),
1-038 (14), 1-038 (37), 2-003,
2-025 (50), 2-025 (53), 2-032,
2-034 (36), 2-034 (39)

Tomlinson, Jeremy

j.w.tomlinson@bham.ac.uk
1-009 (64)

Topál, József

ekea@axelero.hu
3-020

Tortella, Patrizia

cemef@libero.it
3-012 (46)

Toub, Tamara R.

trstoub@u.washington.edu
2-040 (63)

Touchette, Evelyne

eveline.touchette.1@uaval.ca
1-034

Trainor, Laurel

ljt@mcmaster.ca
1-012, 2-011 (16), 2-016, 2-025 (7)

Tran, Minh M.

minhmarie1@gmail.com
1-038 (39), 1-038 (59), 3-023 (41)

Trehub, Sandra

sandra.trehub@utoronto.ca
3-012 (70)

Tremblay, Richard E.

richard.ernest.tremblay@umontreal.ca
1-034

Triesch, Jochen

triesch@fias.uni-frankfurt.de
1-020

Troller-Renfree, Sonya

sonya.troller-renfree@
childrens.harvard.edu
3-012 (10)

Tronick, Ed

ed.tronick@umb.edu
2-011 (63), 2-011 (68), 2-025 (58),
3-002, 3-012 (56), 3-012 (63)

Troseth, Georgene

georgene.troseth@vanderbilt.edu
2-034 (35), 2-040 (40)

Träuble, Birgit

birgit.traeuble@psychologie.uni-
heidelberg.de
1-025 (27)

Tsao, Feng-Ming

tsaosph@mail2000.com.tw
3-012 (22)

Tsuji, Sho

Sho.Tsuji@mpi.nl
3-012 (28)

Tsuruhara, Aki

aki.tsuruhara@gmail.com
1-025 (11)

Tucciarone, Joseph T.

TUCCIARONE@mail.etsu.edu
1-009 (32)

Tucker, Breon

breon90@vt.edu
3-012 (30)

Tuit, Lisa

ltuit@umd.edu
3-014

Tully, Kristin P.

kristin.tully@duke.edu
3-012 (13), 3-023 (59)

Tully, Kristin

ktully@live.unc.edu
3-023 (47)

Tumuluru, Sravya

sravyatumuluru2007@
u.northwestern.edu
1-033 (51), 2-025 (48)

Turati, Chiara

chiara.turati@unimib.it
2-011 (2), 2-025 (24), 3-012 (19)

Turcotte, Kara

karakturcotte@gmail.com
1-002

Turcotte-Tremblay, Anne-Marie

anne-marie.turcotte-tremblay@
douglas.mcgill.ca
2-030

Turiel, Elliot

turiel@berkeley.edu
2-040 (66)

Turner, Jacqueline

jacqueline.turner@plymouth.ac.uk
1-038 (13), 2-034 (19), 2-040 (23)

Tylavsky, Frances

ftylavsk@uthsc.edu
2-011 (70)

Tyler, Michael D.

m.tyler@uws.edu.au
2-034 (15)

Uchiyama, Ichiro

iuchiyam@mail.doshisha.ac.jp
2-007

Ueno, Mika

eli3503@mail2.doshisha.ac.jp
2-007

Uga, Naoki

naokiuga@med.toho-u.ac.jp
2-025 (10)

Ugolini, Maggie

maggieu@umich.edu
3-012 (32)

Uliel, Shimrit

shimrit_u@yahoo.com
2-025 (5)

Uman, Lindsay

lindsay.uman@iwk.nshealth.ca
1-002

Umemura, Tomo

umetomotaka@gmail.com
1-038 (48), 1-038 (49)

Unger, Annika

AnnikaUnger@gmx.de
2-040 (27)

Author Index

Uniken-Venema, Monica

m.unikenvenema@umcutrecht.nl
1-027

Unrau, Andrea

unrauaj@mcmaster.ca
2-011 (16)

Upshaw, Michaela

kbupshaw@uw.edu
1-033 (1)

Usherwood, Barrie

b.usherwood@lancaster.ac.uk
2-025 (46)

Vaala, Sarah

svaala@asc.upenn.edu
1-038 (64)

Vadnais, Sarah

Vadnais.sarah@gmail.com
1-038 (39), 1-038 (59)

Vaillant-Molina, Mariana

mvail001@fiu.edu
1-025 (46)

Vaish, Amrisha

vaish@eva.mpg.de
1-025 (40), 1-038 (37), 3-025

Valenza, Eloisa

eloisa.valenza@unipd.it
2-025 (27), 2-034 (4), 3-012 (19)

Valero-Garcia, Ana V.

vanesavg@um.es
1-009 (37)

Vallabhajosula, Srikant

svallabhajosula@unomaha.edu
1-033 (5), 2-011 (8)

Vallortigara, Giorgio

giorgio.vallortigara@unitn.it
2-011 (44), 2-025 (25), 2-025 (52),
3-012 (18)

Vallotton, Claire

vallotto@msu.edu
1-038 (15), 2-011 (21)

van Baar, Anna L.

a.l.vanbaar@uu.nl
2-011 (69), 3-023 (60)

van den Bergh, Bea

bea.vdnbergh@uvt.nl
1-003, 1-033 (18)

Van den Brink, Danielle

d.vandenbrink@donders.ru.nl
2-025 (17)

van den Heuvel, Marion

m.vdnheuvel@gmail.com
1-033 (18)

van der Feest, Suzanne V.

suzanne@austin.utexas.edu
1-012

van der Goot, Marloes H.

marloes.vandergoot@mpi.nl
1-038 (14)

van Dijk, Ludger

l.van.dijk@uu.nl
2-040 (7)

van Heugten, Marieke

marieke.vanheugten@utoronto.ca
1-012, 2-025 (39), 2-034 (18)

van Hoogmoed, Anne

a.vanhoogmoed@donders.ru.nl
2-025 (17)

van IJzendoorn, Marinus

VANIJZEN@FSW.leidenuniv.nl
2-015, 2-040 (64)

Van Puyvelde, Martine

mvpuyvel@vub.ac.be
2-025 (41)

van Usen, Karin

k.vanusen@let.ru.nl
3-023 (9)

van Velzen, José

j.vanvelzen@gold.ac.uk
1-009 (5), 2-025 (14)

vanMarle, Kristy

vanmarlek@missouri.edu
2-011 (41), 2-025 (51), 3-023 (24)

VanSchyndel, Sarah

svanschy@asu.edu
3-012 (12)

Vasquez, Janet

janetvas@yahoo.com
3-023 (36)

Vaughan Van Hecke, Amy

amy.vanhecke@mu.edu
2-029

Vera-Cruz, Margarita

veracrmc@mcmaster.ca
2-011 (19)

Verhoeven, Marjolein

j.c.t.verhoeven@uu.nl
2-011 (69), 3-023 (60)

Verlaan, Yvette

yvette@verlaan.org
2-040 (10)

Vernetti, Angelina

a.vernetti.31@gmail.com
2-026

Versteegh, Maarten

m.versteegh@let.ru.nl
2-021

Viator, Sara

sviator@email.arizona.edu
1-033 (49)

Vignola, Emilia F.

emma.vignola@gmail.com
1-025 (1)

Vihman, Marilyn M.

mv509@york.ac.uk
2-017, 2-034 (21)

Vila, Angela

az3852@wayne.edu
1-009 (18)

Viola, Macchi Cassia

viola.macchicassia@unimib.it
1-028, 2-011 (2), 2-040 (16)

Visser, Ingmar

i.visser@uva.nl
1-009 (26)

Voegtline, Kristin

kvoegtli@jhspk.edu
1-038 (1)

Vogel-Farley, Vanessa

Vanessa.Vogel@
childrens.harvard.edu
2-025 (8)

Author Index

Volling, Brenda

volling@umich.edu
1-038 (45), 2-011 (62), 3-010

Volman, M. (Chiel) J.

m.volman@uu.nl
2-011 (4), 2-040 (7), 3-007

von Hofsten, Claes

claes.von_hofsten@psyk.uu.se
1-004

Von Holzen, Katie

kvonhol@gwdg.de
1-017, 2-005

Vonderheid, Susan

vonde@uic.edu
2-011 (61), 3-024

Vouloumanos, Athena

athena.vouloumanos@nyu.edu
1-033 (38), 2-002

Vuori, Maria T.

maria.vuori@psy.lmu.de
2-025 (62)

Wadhwa, Pathik

pwadhwa@uci.edu
3-001

Wagner, Jennifer

jennifer.wagner@
childrens.harvard.edu
1-015, 2-040 (42), 3-012 (49)

Wahl, Sebastian

sebastian.wahl@
psychologie.uni-heidelberg.de
1-009 (6), 2-027

Waisman, Anna

annawais@uw.edu
3-004

Walco, Daniel K.

dwalco@u.northwestern.edu
1-033 (51), 2-025 (48)

Wall, Christine

cwall9@emich.edu
1-025 (59)

Walle, Eric A.

ewalle@berkeley.edu
1-025 (49), 2-007

Wang, Feihong

rainboww@email.unc.edu
2-011 (65)

Wang, Jing-Fong

psy82219@msn.com
3-023 (3)

Wang, Quan

wang@fias.uni-frankfurt.de
1-020

Wang, Su-hua

suhua@ucsc.edu
1-006, 3-023 (27)

Ward, Nancy A.

nancyward@ucla.edu
3-012 (29)

Warlaumont, Anne S.

anne.warlaumont@gmail.com
1-033 (40)

Warneken, Felix

warneken@wjh.harvard.edu
1-033 (66), 1-038 (36)

Wass, Samuel V.

sam.wass@bbk.ac.uk
1-014, 1-020

Watson, Amanda J.

watsonaj@vt.edu
1-038 (25), 2-025 (16)

Waugh, Whitney

wew36@pitt.edu
2-034 (65), 3-012 (21)

Waxler, Ellen

ellenwax@med.umich.edu
3-010

Waxman, Sandra R.

s-waxman@northwestern.edu
1-025 (23)

Way, Niobe

niobe.way@nyu.edu
1-009 (13)

Weinstein, Maya

weinmaya@gmail.com
2-025 (5)

Weisleder, Adriana

adrianaw@stanford.edu
2-034 (22), 3-022

Weiss, Juli L.

jlweiss2@uno.edu
3-012 (65)

Welch, Melisa

welchme1@msu.edu
3-023 (45)

Wereha, Tyler J.

tjw4@sfu.ca
1-009 (51)

Werker, Janet F.

jwerker@psych.ubc.ca
1-009 (39), 1-009 (43), 1-017, 1-026,
1-029, 2-011 (15), 2-016, 2-025 (34),
2-034 (14), 2-040 (32), 3-009

Wertz, Annie

annie.wertz@yale.edu
1-025 (32)

West, Ashley J.

zajw9@goldmail.etsu.edu
2-034 (28)

Westerlund, Alissa

alissa.westerlund@
childrens.harvard.edu
3-012 (10)

Westermann, Gert

g.westermann@lancaster.ac.uk
1-033 (40), 1-038 (28), 2-027

Wheeler, Andrea

andrea.wheeler@utoronto.ca
3-011

Wheeler, Lesley

lesleycwheeler@gmail.com
2-034 (7)

Whishaw, Ian Q.

whishaw@uleth.ca
2-040 (2)

Whitaker, Toni

twhitaker@uthsc.edu
1-009 (49), 2-029, 3-013

White, Katherine

white@uwaterloo.ca
2-005, 3-021

Author Index

White-Traut, Rosemary

rw@uic.edu
1-009 (17), 1-027, 1-033 (7),
2-011 (61), 2-034 (56), 3-023 (59),
3-024

Whiten, Andrew

aw2@st-andrews.ac.uk
1-032

Whitesell, Corey J.

cjw142@psu.edu
1-009 (63), 1-034

Whitfield, Alexandra C.

awhitfi3@utk.edu
1-033 (14), 2-011 (14)

Whitney, Pamela

pamela.whitney@uconn.edu
1-025 (56), 2-011 (3)

Wiersema, Roeljan

roeljan.wiersema@ugent.be
3-023 (22)

Wigoda-Mikkila, Maija

Maija@schulerprogram.org
1-033 (32)

Wijnroks, Lex

a.wijnroks@uu.nl
1-027

Wilcox, Teresa

twilcox@tamu.edu
1-033 (19), 2-034 (7), 3-023 (51)

Wilkening, Friedrich

f.wilkening@psychologie.uzh.ch
1-009 (35)

Wilkinson, Nick

nwilkinson3@gmail.com
2-024

Williams, Stacey L.

williasl@etsu.edu
1-038 (60)

Williamson, Tiffany

tsw14@duke.edu
3-023 (23)

Willits, Jon

willits@wisc.edu
2-013

Willoughby, Michael

willoughby@unc.edu
1-038 (29)

Wink, Teresa

twink@slu.edu
2-034 (56)

Winkler, István

iwinkler@cogpsyphy.hu
1-003, 1-033 (18)

Winstanley, Alice

WinstanleyAV@cardiff.ac.uk
1-033 (61), 3-023 (32), 3-023 (33)

Winter, Marcia

marcia_winter@urmc.rochester.edu
3-001

Wittke, Andrea

andrea.wittke@med.uni-heidelberg.de
3-023 (58)

Wobber, Victoria

wobber@fas.harvard.edu
2-003, 2-025 (50)

Wochner, Katarzyna

katarzyna.wochner@med.uni-
heidelberg.de
3-023 (58)

Wojcik, Erica H.

ehwojcik@wisc.edu
2-013, 2-040 (56)

Wolke, Dieter

D.Wolke@warwick.ac.uk
1-038 (34)

Wong, Maria S.

mwong@fuller.edu
1-031, 3-012 (64)

Woodbury, Margaret R.

mwoodbur@terpmail.umd.edu
2-025 (57)

Woods, Rebecca J.

rebecca.woods@ndsu.edu
2-034 (30), 2-040 (37)

Woodward, Amanda L.

woodward@uchicago.edu
1-001, 1-009 (34), 1-033 (52),
1-033 (57), 2-024, 3-012 (54)

Wooldridge, Michaela

micha13@interchange.ubc.ca
3-023 (44)

Worobey, John

worobey@rci.rutgers.edu
1-038 (63), 3-023 (64)

Wrangham, Richard

wrangham@fas.harvard.edu
2-003, 2-025 (50)

Wright, Kristyn N.

kr_wright@live.concordia.ca
1-009 (38)

Wronski, Caroline

wronski@cbs.mpg.de
3-008

Wu, Di

dwu@cedarville.edu
2-025 (28)

Wu, Joy

qiongwu@vt.edu
3-023 (13)

Wu, Rachel

rachelwu2006@gmail.com
2-014, 2-023

Wu, TeHsin

tehsin.wu@gmail.com
2-034 (20)

Wu, Zhen

zhen-wu@uiowa.edu
2-009, 2-035

Wynn, Karen

karen.wynn@yale.edu
1-016, 1-025 (32), 2-025 (54)

Wyss, Nancy M.

nmille5@luc.edu
1-009 (36), 1-025 (7)

Xiao, Naiqi

naiqi.xiao@utoronto.ca
2-040 (14)

Xiao, Wen

xiaowen0423@gmail.com
2-013

Xie, Wanze

xiew@goldmail.etsu.edu
2-034 (28)

Author Index

Xu, Dongxin

dongxinxu@lenafoundation.org
1-038 (22), 2-011 (29)

Xu, Fei

fei_xu@berkeley.edu
1-035, 3-004, 3-018

Xu, Huiping

huipxu@iupui.edu
1-038 (17)

Yada, Kyndal

kyndaly@osl.org
1-033 (17)

Yamaguchi, Masami K.

ymasa@tamacc.chuo-u.ac.jp
1-025 (11), 1-025 (69), 1-033 (16),
1-038 (31), 1-038 (33), 2-034 (4)

Yamamoto, Jun-ichi

yamamotj@flet.keio.ac.jp
3-023 (18)

Yamashita, Wakayo

k3544891@kadai.jp
1-038 (33), 2-034 (4)

Yang, Charles

charles.yang@ling.upenn.edu
2-010

Yang, Yang

yay888@mail.harvard.edu
3-012 (56)

Yao, Qianwen

ceeceeyao@gmail.com
1-009 (31)

Yeakel, Emilie

ejy5014@psu.edu
1-025 (47), 2-034 (50)

Yee, Meagan N.

mnyee@indiana.edu
3-012 (47)

Yermolayeva, Yevdokiya

yyermola@andrew.cmu.edu
3-009

Yeung, Henny

henny.yeung@parisdescartes.fr
1-026, 2-005, 2-017, 2-040 (31)

Yim, Hyungwook

yim.31@osu.edu
1-009 (40)

Yonas, Albert

yonas@umn.edu
1-025 (11), 1-033 (30), 2-038

Yopst, Victoria

z1607067@students.niu.edu
2-011 (48), 3-023 (41)

Yorgason, Laurel

laurelyorgason@gmail.com
3-012 (51)

Yoshida, Hanako

hyoshida@Central.UH.EDU
3-012 (40)

Yoshikawa, Hirokazu

yoshikhi@gse.harvard.edu
1-009 (13)

Yott, Jessica

j_yott@live.concordia.ca
2-040 (53)

Young, Marion E.

MYoung@Wihri.org
2-025 (1)

Yu, Chen

chenyu@indiana.edu
1-001, 2-001, 2-040 (30), 3-016, 3-022

Yu, Tianyi

yutianyi@uga.edu
3-010

Yu, Yawen

yawenyu0811@gmail.com
1-033 (5), 2-011 (8)

Yu, Yue

yy376@cornell.edu
2-011 (38)

Yuan, Sylvia

shyuan@berkeley.edu
1-035

Yun, Jung-eun

jeyun@uw.edu
2-034 (42)

Yurovsky, Daniel

dyurovsk@indiana.edu
2-023, 3-016, 3-022

Yuschak, Kathryn

klyuschak@gmail.com>
1-025 (33)

Yusko, Brittany

byusk001@fiu.edu
3-023 (36)

Zachary, Chloe

chloezachary@gmail.com
3-012 (68)

Zajicek-Farber, Michaela L.

farber@cua.edu
2-011 (56)

Zamuner, Tania

tzamuner@uottawa.ca
2-010

Zapf, Jennifer A.

zapfj@uwgb.edu
1-009 (11)

Zavala, Corrine J.

corrinezavala@gmail.com
3-012 (5)

Zavala, Julia

julia.h.zavala@gmail.com
1-025 (1)

Zeanah, Charles H.

czeanah@tulane.edu
2-025 (57)

Zelaya, Rebecca

mzelaya@trinity.edu
3-012 (33)

Zelinsky, Megan

mmzeli1@gmail.com
1-038 (16)

Zesiger, Pascal

pascal.zesiger@unige.ch
1-033 (44), 2-022, 2-025 (32)

Zeyen, Anna-Maria

amzeyen@gmx.net
2-040 (47)

Zhang, Dantong

dzhang12@utk.edu
1-033 (14), 2-011 (14)

Zhang, Yueyan

812399904@qq.com
1-028

Author Index

Zieber, Nicole

nrzieb2@g.uky.edu
1-009 (9), 1-038 (5), 1-038 (6),
2-025 (19)

Zimmermann, Laura

ljz7@georgetown.edu
3-012 (68)

Ziv, Talee

ziv@fas.harvard.edu
1-038 (40)

Zolfaghari, Rahman

rahman@ucla.edu
2-034 (3)

Zukow-Goldring, Patricia

zukow@ucla.edu
1-038 (20), 2-001

Zvara, Bharathi J.

zvara@live.unc.edu
2-034 (51)