



International Conference on Infant Studies

New Orleans, Louisiana
May 26-28, 2016



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Event Numbers (0-000). Thursday's event number begins with 1, and each session is assigned a sequential number (1-001, 1-002, etc.) for that day. Friday sessions begin with 2, and Saturday sessions begin with 3. Missing numbers represent sessions that have been cancelled or posters that were withdrawn.

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Welcome from the President

Dear ICIS Attendees,

Welcome to the 20th biennial meeting of the International Congress on Infant Studies in New Orleans!

We celebrate the occasion of our 20th meeting—and our 40th year of operation—with an amazing line-up of speakers in the invited program and an outstanding three days of posters, symposia, and paper sessions. The invited program reflects the wonderful diversity of opinions and methods that characterize the richness and productivity of current infancy research and our efforts to highlight four intersecting themes of learning, emotion, culture, and technology that broaden and deepen the study of infant development. The posters, symposia, and paper sessions represent the leading edge of infancy research from around the world. This year, we boast 785 presentations from more than 33 countries.

Lisa Oakes, 2016 Program Chair, and Marianella Casasola and Vanessa LoBue, Program co-Chairs, the panel review chairs, and reviewers have provided us with a truly unique and engaging program. Martha Arterberry and Samuel Putnam, Chairs of the Undergraduate Committee spearheaded efforts to ensure undergraduate participation in the conference. Char Shada at Experient helped to secure the venue, Hailey Buck and the staff at SRCD expertly organized the meeting, and Marischal De Armond and his team at Podium Conference Specialists have revamped our website and are taking on the administration of the society.

The New Orleans venue is fantastic. The conference hotel, the Hilton New Orleans Riverside, has luxurious guest rooms, comfortable meeting rooms, and many opportunities for networking and gathering with colleagues and friends. The hotel is located in downtown New Orleans, minutes from the French Quarter, and attached to a food court and shopping outlet. Enjoy the NOLA music, spice, and vibe.

Please join us at the welcome reception on Thursday night and the presidential reception on Friday night to celebrate 40 years of progress in discovering the origins and processes of development.



With all best wishes,

Karen E. Adolph

Karen Adolph
ICIS President, 2014-2016

Welcome from the 2016 Program Chairs

We welcome you to the 20th meeting of the International Congress of Infant Studies. This year, we will gather in the heart of downtown New Orleans, home to the French Quarter, Mardi Gras, vibrant live music, and spicy Cajun cuisine. We hope that the richness of the New Orleans culture mirrors the richness of the program and that the energy of Mardi Gras reflects the enthusiasm with which we worked to create an intellectually vibrant array of presentations.

As in previous years, the congress will be an exciting mix of plenary and invited speakers, invited symposia, dedicated symposia, submitted symposia, paper sessions (individual papers grouped by research interest), and posters. For the first time, we organized the invited program across four intersecting themes: culture, technology, emotion, and learning in infancy. Invited talks and symposia focus on one or more of these themes, including the measurement of emotions in infancy, neurocognitive development, and the Presidential symposium on cultural diversity. In line with these themes, we are pleased to welcome Deb Roy as our plenary speaker. Deb Roy is an Associate Professor at the Massachusetts Institute of Technology, Chief Media Scientist of Twitter, and a leading expert on the intersection of human and machine communication. We are also proud to present two dedicated sessions to honor Carolyn Rovee-Collier and Gerald Turkewitz, former presidents of ICIS and pioneers in the field of infancy research.

We wish to acknowledge the many individuals who provided much-needed support and encouragement and who invested many hours to ensure a wonderful 2016 Congress. First, we thank Karen Adolph, the current ICIS president, for offering us the opportunity to plan this exciting meeting. Her vision and guidance were invaluable to us. We are indebted to Hailey Buck and the staff at SRCO. Their conference organizing expertise and Hailey's ability to keep the event planning organized and to manage the flow of communication was a tremendous help at every step along the way and made it possible to pull off this conference. We thank Martha Arterberry and Samuel Putnam for their amazing work to ensure that undergraduates can attend and participate in the meeting. We thank all of our invited speakers, invited symposia chairs, chairs of the individual paper sessions, panel review chairs, and panel reviewers for their time and effort in maximizing the quality of the program. We are also indebted to the many colleagues who reviewed travel award applications. We gratefully thank our generous sponsors who made aspects of this meeting possible. In particular, we are thankful to Johnson & Johnson Consumer Inc. for their generous sponsorship of the session to honor the memory of Gerald Turkewitz. We also are grateful to Positive Science for sponsoring the Studying Autism with Technology presentations by James Rehg and Brian Scassellati. Contributions from the University of California at Davis, Cornell University, and Rutgers University allowed us to host a "Lunch with the Leaders" at a minimal cost to the attendees. The Jacobs Foundation and the Simons Foundation supported travel awards to young scholars while NSF and NICHD supported travel awards for undergraduate students. 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 reception on Thursday morning and the welcome reception on Thursday evening. You also will not want to miss the Presidential Reception on Friday evening.

We hope you enjoy the 2016 Congress!



Lisa McAuley



Mariamella Casanova



Vanessa Lobue

Onsite Information

Registration Hours

(located on the Street Level Ballroom Promenade)

Wednesday, May 25	11:00am - 7:00pm
Thursday, May 26	7:30am - 6:30pm
Friday, May 27	7:30am - 6:00pm
Saturday, May 28	8:00am - 5:30pm

Exhibit Hall Hours

(located in Grand Ballroom Salon C & D)

Thursday, May 26	8:00am - 7:00pm
Friday, May 27	8:00am - 7:00pm
Saturday, May 28	8:00am - 4:00pm

Wireless and Internet Café

Wi-Fi connections are available in the Exhibit Hall. Wi-Fi is also available at no charge to the attendees who booked hotel rooms through the ICIS hotel block at the Hilton New Orleans Riverside.

The Internet Café is located in the Exhibit Hall as well. The café will have computers available for use during the Exhibit Hall hours and will have the program PDF available for browsing.

Mobile Device Charging Station

A station will be available in the Exhibit Hall during Exhibit Hall hours to recharge any of your mobile devices. This station is sponsored by Databrary.

Student Lounge Hours

(located in Grand Salon Room 7)

Thursday, May 26	7:30am - 7:30pm
Friday, May 27	7:30am - 7:30pm
Saturday, May 28	7:30am - 5:00pm

Ways to Access the Program Book

- Download the Mobile App to your mobile device.
- Online program is available through the ICIS website.
- A PDF is available on each of the monitors in the Internet Café.

Networking Rooms

(located in Grand Salon Room 10 and 19&22)

Two networking rooms are available for informal gatherings and topic-based discussions. These rooms are not equipped with A/V. Sign up on the schedule located outside of each room to reserve a time slot.

ICIS Leadership

Executive Committee

President	Karen Adolph	New York University
President-Elect	Kathy Hirsh-Pasek	Temple University
Past-President	Daphne Maurer	McMaster University
Treasurer	Christine Kitamura ('10-'16)	University of Western Sydney
Secretary	Rachel Barr ('14-'20)	Georgetown University

Members-at-Large

Scott Johnson ('14-'20)	University of California Los Angeles
Lisa Oakes ('14-'20)	University of California Davis
John Richards ('12-'18)	University of South Carolina
Janet Werker ('10-'16)	University of British Columbia
Amanda Woodward ('10-'16)	University of Chicago
Catherine Tamis-LeMonda ('14-'18)	New York University

Standing Committees

Publications	John Colombo	University of Kansas
List serve	David Lewkowicz	Northeastern University
Undergraduate Committee	Sam Putnam	Bowdoin College
	Martha Arterberry	Colby College
Program ICIS2014	Mark Johnson	Birkbeck University of London
	Denis Mareschal	Birkbeck University of London
	Núria Sebastián Gallés	Universitat Pompeu Fabra
Program ICIS2016	Marianella Casasola	Cornell University
	Vanessa LoBue	Rutgers University
	Lisa Oakes	University of California Davis

2016 Review Panels

Panel 1 – Motor and Sensorimotor Processes

Chairs: John Franchak and Jeff Lockman
Reviewers: Marianne Barbu-Roth, Bennett Bertenthal, Jean-Paul Boudreau, Whitney Cole, Daniela Corbetta, Jacqueline Fagard, Regina Harbourne, Petra Hauf, Bjorn Kahrs, Eliza Nelson, Audrey van der Meer, Beatrix Vereijken, Peter Vishton.

Panel 2 – Developmental Neuroscience

Chairs: Dima Amso and Leslie Carver
Reviewers: Heather Bortfeld, Kimberly Cuevas, Michelle de Haan, Jed Elison, Rick Gilmore, Julie Markant, Olivier Pascalis, John Richards, Margaret Swingler, Sara Jane Webb.

Panel 3 – Perception

Chairs: Martha Arterberry and Karen Dobkins
Reviewers: Lorraine Bahrack, Benjamin Balas, Andrew Bremner, Edouard Gentaz, Scott Johnson, Michael Kavsek, Klaus Libertus, Viola Macchi Cassia, Clay Mash, Robin Panneton, Lisa Scott, Masami Yamaguchi.

Panel 4 – Communication and Language

Chairs: Susan Graham and Athena Vouloumanos
Reviewers: Sudha Arunachalam, Arielle Borovskyt, Laura Bosch, Jane Childers, Alex Cristia, Suzanne Curtin, Judit Gervain, Katharine Graf-Estes, Jessica Hay, Annette Henderson, Jessica Horst, Elizabeth Johnson, Agnes Kovacs, Casey Lew Williams, Ulf Liszkowski, Alia Martin, Elizabeth Nilsen, Kris Onishi, Eugenio Parise, Ferran Pons, Hugh Rabagliati, Amanda Seidl, Mohinish Shukla, Sarah Shultz, Erik Thiessen, Daniel Weiss, Katherine White, Chen Yu.

Panel 5 – Attention, Memory, and Learning

Chairs: Patricia Ganea and Amy Needham
Reviewers: Rachel Barr, Ross Flom, Janet Frick, Sarah Gerson, Teodora Gliga, Harlene Hayne, Jane Herbert, Zsuzsa Kaldy, Natasha Kirkham, Angela Lukowski, Larissa Samuelson, Gudrun Schwarzer, Gabrielle Strouse.

Panel 6 – Cognitive Development

Chairs: Lisa Feigenson and David Rakison
Reviewers: Cara Cashon, Erik Cheries, Sara Cordes, Kiley Hamlin, Susan Hespos, Jean-Rémy Hochmann, Melissa Kibbe, Celeste Kidd, Valerie Kulhmeier, Melissa Libertus, Koleen McCrink, Paul Muentener, Sabina Pauen, Shannon Ross-Sheehy, Jeanne Shinsky, Sylvain Sirois, David Sobel, Aimee Stahl, Kristy vanMarle, Teresa Wilcox, Fei Xu, Jennifer Zosh.

Panel 7 – Social Development

Chairs: Pamela Cole and Kristin Shutts
Reviewers: Laura Armstrong, Renee Baillargeon, Marjorie Beeghly, Jonathan Beier, Erika Bockneck, Celia Brownell, Audun Dahl, Christine Fawcett, Josefina Grau, Kiley Hamlin, Dale Hay, Shoji Itakura, Heidi Keller, Katherine Kinzler, Laura Scaramella, Marinus van IJzendoorn, Brenda Volling, Felix Warneken.

Panel 8 – Emotional Development

Chairs: Kristin Buss and Koraly Perez-Edgar
Reviewers: Linda Camras, Elizabeth Davis, Kathryn Degnan, Jessica Dollar, Maria Gartstein, Amie Hane, Heather Henderson, Amy Kennedy Root, Elizabeth Kiel, Esther Leerkes, Diane Lickenbrock, Daniel Messinger, Ursula Pauli-Pott, Cynthia Smith, Cynthia Stifter, Susan Woodhouse, Nurit Yirmiya.

Panel 9 – Pediatric Issues, Psychopathology and Developmental Delay

Chair: Ann Mastergeorge
Reviewers: Malinda Colwell, Amy Donaldson, Jamie Edgin, Sybil Hart, Penny Knapp, Sally Ozonoff, Susan Rivera.

Preconference and Special Events

Wednesday

Facial Action Coding System for Infants and Young Children (Baby FACS)

Harriet Oster & Marco Dondi

Wednesday May 25, 2pm-6:30pm, Grand Salon 3

We will be conducting an introductory workshop on Oster's Facial Action Coding System for Infants and Young Children (Baby FACS), a modification for infants and young children of Ekman, Friesen, & Hager's fine-grained, anatomically based adult FACS. The recently revised Baby FACS manual includes extensive illustrations and video excerpts of Baby FACS Action Units and distinctive facial expressions in infants and young children. The workshop will begin with an overview of Baby FACS coding. In the second part of the workshop, we will discuss strategies for coding intensities and variants of positive and negative affect expressions; facial expressions occurring in the context of infant-caregiver interactions and experimental manipulations; and facial expressions reflecting hedonic responses to sensory stimulation, cognitive information processing, and emotion regulation. Illustrations from research involving typically developing infants and toddlers, preterm infants, and infants in pediatric populations will be presented to illustrate the advantages of an empirical approach to research on facial expression in infants and children. Marco Dondi will discuss strategies for coding facial expressions in preterm infants and fetuses. In the final part of the workshop, participants will have an opportunity to discuss their own studies and to brainstorm about coding and data analysis strategies. Prior FACS training is not required, but some experience coding infant or child behavior is recommended. Refreshments will be served.

Space is limited to 50 participants. For questions about the workshop or about Baby FACS, contact Harriet Oster. The attendance fee, to cover refreshments and other expenses of the workshop, is \$100 (\$75 for undergraduates and predoctoral graduate students). **Please preregister by emailing Harriet Oster, harriet.oster@nyu.edu**

Coding, Sharing, and Reusing Video Data with Databrary

Databrary and Datavyu

Wednesday, May 25 1pm-4pm, Grand Salon 9

Across age, context, and culture, children produce an extraordinary array of behaviors—speech, gestures, visual exploration, facial expressions, motor actions, and social interactions. Video captures much of the richness and complexity of children's behavior. The Databrary project (databrary.org) capitalizes on the potential of video to accelerate the pace of discovery in developmental science. Databrary provides the software, infrastructure, and policy framework to enable sharing and reuse of developmental research videos.

With Databrary, researchers can find and reuse videos to ask new questions, perform integrative analyses, illustrate phenomena for teaching, verify coding rules, see procedures and methods, browse colleagues' work, and get inspired. Moreover, Databrary can act as your video file manager, lab server, and secure off-site backup facility. It can enable collaborations with your students and colleagues.

This free workshop will teach researchers—from principal investigators to undergraduates—how to exploit the richness inherent in recordings of children's behavior by coding, reusing, and sharing research videos. Attendees will also learn how open sharing benefits the original data contributor with increased citations, attention, and fulfillment of federal funding mandates.

With the right tools, video coding can be easy, efficient, and enlightening. We will teach attendees how to use Datavyu, a free video-coding tool, to mine the richness of their videos. Video is unique from other forms of data because of the opportunities it provides for reuse. We will provide examples of how videos can be reused to address new questions beyond the scope of the original study.

We developed a policy framework to enable video sharing and address concerns about participants' privacy. Attendees will learn how to amend their IRB protocols and obtain participants' permission for sharing. Attendees will learn how to use Databrary to manage their ongoing studies and to monitor progress in data collection and coding. Databrary also functions as a lab server and secure backup for data that can be kept private to only collaborators and lab members until it's ready to be shared. When ready, the contributor can share the study with just a click of a button!

Delicious snacks and beverages will be provided. The workshop is free, but registration is required because space is limited.

For more information and registration visit: <http://goo.gl/forms/iUzBOI4DqM>.

For questions about the workshop, please contact events@databrary.org.

Preconference and Special Events

Introducing HomeBank: A TalkBank system for securely sharing largescale naturalistic child language recordings

DARCLE

Wednesday May 25, 4pm-7pm, Grand Salon 12

Anne Warlaumont & Melanie Soderstrom (anne.warlaumont@gmail.com; M.Soderstrom@umanitoba.ca)

Learn how to share your recordings or gain access to the database. Organized by Anne Warlaumont, Melanie Soderstrom, Alex Cristia, Mark VanDam. Please contact the organizers via the above emails.

Origins of Body Representations: Integrating Cognitive, Motor, Neural and Perceptual Perspectives

Body Representation Researchers

Wednesday May 25, 1pm-5pm, Grand Salon 6

The goal of the workshop is to integrate theory and findings on the development of early body knowledge across cognitive, motor, neural and perceptual perspectives. Please contact Jeff Lockman (lockman@tulane.edu)

Building Best Practices in Infancy Research

Wednesday May 25 from 12:30 to 5:30, Grand Salon 13

The organizers are Kiley Hamlin, Jessica Sommerville, Lisa Oakes, and John Colombo.

It's a bargain at only \$11.54 per registrant to cover costs.

What can you expect?

- Presentation by Kiley Hamlin and Jessica Sommerville of the results of a survey of common practices in infant labs
- Presentation by Lisa Oakes of the effects of adopting different practices on a data set
- Presentation by John Colombo on what we can learn from clinical trials
- Presentation by Mike Frank on the *Many Babies* project, which is aimed at demonstrating the replicability and non-replicability of research findings with infants
- Presentation by Lisa Freund and Marita Hopmann of NICHD about policies and the emerging focus on reproducibility and reliability of results when making funding decisions
- Discussion with members of the ICIS executive committee and Infancy editors on establishing standards for publishing

Questions? Email Kiley Hamlin or Jessica Sommerville

Please their website (<http://bestpracticesinfancy.weebly.com/>) for further details and to register.

Thursday

Lunch with Leaders

Thursday, May 26, 12:00 to 1:00pm, Grand Salon Room 19 & 22

This event provides a forum for students to interact with senior scholars who have central roles in the field of infant studies. The 2016 Lunch with Leaders is scheduled for Thursday, May 26, 12:00pm – 1:00pm. Registration and payment of a \$10 fee is required for this event prior to the conference. Leaders include Nathan Fox, Susan Graham, Jeff Lockman, Koraly Perez-Edgar, Paul C. Quinn, Susan Rivera, Larissa Samuelson, and Felix Warneken.

National Science Foundation and National Institutes of Health Conversation Hour

Thursday, May 26, 12:00 to 1:00pm, Grand Salon Room 10

Come participate in an informal discussion of funding opportunities within NSF and NIH and best practices for preparing competitive grant proposals. Feel free to bring your lunch! Presenters are Laura Namy and Lisa Freund.

Preconference and Special Events

Welcome Reception

Thursday, May 26, 6:00 to 7:30pm, Chemin Royale & Exhibit Hall

All attendees are invited to attend this event. This reception is in conjunction with Poster Session 4, so come and enjoy refreshments while viewing some exciting research. Here's an opportunity to meet people from other universities or countries who may share your research interests. Cash bars will be available.

Friday

Mock NIH Review Panel

Friday, May 27, 11:30am to 12:30pm, Grand Salon Room 10

A Mock NIH review panel will evaluate two different grant applications so you can see what happens during the NIH review process. Program and Review Officers from the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) as well as NIH supported investigators acting as reviewers will participate. There will be time for questions following the presentation.

How To Land That New Job (And How Not To)

Friday, May 27, 3:15 to 4:45pm, Grand Salon Room 21 & 24

The International Congress on Infant Studies (ICIS) joins forces with the Council of Graduate Departments of Psychology (COGDOP) to provide young ICIS scholars a unique opportunity to gain advice from acting Department Chairs about how best to write cover letters, select good referees, negotiate for job offers, secure competitive start-up allowances, and manage many other elements of the very anxiety-provoking process of landing a new job. In this Q&A panel format, multiple Department Chairs representing institutions ranging in size from very small to very large, and from private to public, will answer questions and give advice based on their several decades of combined experience negotiating and making jobs offers from the other side of table. This panel symposium should be of great interest to graduate students in all years of study, post-doctoral fellows, and even more seasoned professionals who are thinking of re-entering the academic job market. Presenters are Wallace E. Dixon, Jr., Martha Arterberry, Keith Crnic, H. Hill Goldsmith, Laura Scaramella, and Marsha Weinraub.

Presidential Reception - all attendees welcome!

Fri, May 27, 6:30 to 8:00pm, Chemin Royale & Exhibit Hall

All attendees are encouraged to attend this social event! Connect with old and new friends and colleagues as you enjoy refreshments. Cash bars will be available.

Saturday

Award Ceremony and Business Meeting

Saturday, May 28, 11:45am to 12:45pm, Grand Ballroom Salon A&B

The Award Ceremony and Business Meeting is open to all attendees. A program will be presented introducing each recipient of the Young Investigator Award, the Dissertation Award, the best paper in Infancy, Undergraduate Awards, Travel Awards, as well as recognizing others who made important contributions. We will announce our newly elected officers (President-elect, Treasurer, Board Members), our new society organizer, pass the baton to our incoming president, Kathy Hirsh-Pasek, and celebrate and recognize the wonderful work of our colleagues.

2016 Exhibitors

Brain Vision – Booth 300

2500 Gateway Centre Blvd., Suite 100
Morrisville, NC 27560
www.brainvision.com

Brain Vision, LLC offers tailored solutions for noninvasive neurophysiological infant and adult research. Specializing in EEG/ERP/BCI applications, our equipment can be compatible with fMRI and stimulation devices among other things.

Cortech Solutions, Inc. – Booth 205

1409 Audubon Blvd.
Suite B1
Willmington, NC 28403
www.cortechsolutions.com

Databrary – Booth 107/206

196 Mercer Street, Suite 807
New York, NY 10012
www.databrary.org

Databrary is a web-based video library specialized for researchers to store, manage, preserve, and share research videos. We aim to provide tools that encourage good data management, facilitate open data sharing, enable discovery, and foster data reuse.

LENA Research Foundation – Booth 204

5525 Central Avenue, Suite 100
Boulder, CO 80301
www.lenafoundation.org

The world's first automatic language collection and analysis tool, the LENA System facilitates accelerated language development of children 0-5, and research and treatment of language delays and disorders

Mangold International – Booth 207

Graf-von-Deym-Str. 5
Arnstorf, DE 94424
www.mangold-international.com

Mangold International is a world leading provider of professional research labs. Our innovative, easy to use hardware and software solutions enable researchers from different disciplines to discover more in their observational studies.

Pathways.org – Booth 105

150 N Michigan Ave. Suite 2100
Chicago, IL 60601
www.pathways.org

Pathways.org, provides FREE tools to maximize all children's motor, sensory and communication development, under the direction of the Pathways.org Medical Roundtable and in collaboration with our staff and outside experts.

SensoMotoric Instruments, Inc. – Booth 201

236 Lewis Wharf
Boston, MA 21100
www.smivision.com

SMI is a world leader in dedicated computer vision applications, developing and marketing eye & gaze tracking systems and OEM solutions for a wide range of applications such as psychology & neurology. Visit our booth to try the eye tracking solutions your

Springer – Booth 302

233 Spring St., 3rd floor
New York, NY 10013
www.springer.com

Springer's Infant and Child Development Books and Journals, where leading scholars and practitioners connect research and practice, giving professionals the information and tools they need.

SR Research Ltd. – Booth 203

35 Beaufort Drive
Ottawa, Ontario K2L2B9
www.sr-research.com

SR Research, the makers of EyeLink eye trackers, provide highly precise, easy-to-use, baby-friendly systems that make eye tracking a breeze. Stop by the SR Research booth and see what's new!

Tobii Pro – Booth 304/306

510 North Washington Street, Suite 200
Falls Church, VA 22046
www.tobiiipro.com

Tobii Pro helps business and science professionals gain valuable insights into human behavior. Our high-quality eye tracking solutions capture human behavior in a natural way, ultimately affording users access to valuable, objective data about real responses.

2016 Sponsors

Cornell University, Department of Human Development – Lunch with Leaders Sponsor

B51 MVR Hall
Ithaca, NY 14853
<http://www.human.cornell.edu/hd/>

Positive Science – Invited Session Sponsor

375 Sunrise Highway, Suite 7
Lynbrook, NY 11563
<http://positivescience.com/icis/2016/>

Databrary – Mobile Device Charging Station Sponsor

196 Mercer Street, Suite 807
New York, NY 10012
www.databrary.org

Rutgers University, Department of Psychology – Lunch with Leaders Sponsor

<http://childstudycenter.rutgers.edu/Home.html>

Jacobs Foundation – Travel Awards Sponsor

Seefeldquai 17
Postfach
CH-8034 Zürich
www.jacobsfoundation.org

Simons Foundation Autism Research Initiative (SFARI) – Travel Awards Sponsor

160 Fifth Avenue, 7th Floor
New York, NY 10010
<https://www.simonsfoundation.org/>

Johnson & Johnson Consumer Inc. – Invited Session Sponsor

One Johnson & Johnson Plaza
New Brunswick, New Jersey 08933
<http://www.jnj.com/>

UC Davis, Center for Mind and Brain – Lunch with Leaders Sponsor

267 Cousteau Place
Davis, CA 95618
<http://mindbrain.ucdavis.edu/>

National Institute of Child Health and Human Development (NICHD) – Travel Awards Sponsor

31 Center Drive
Building 31, Room 2A32
Bethesda, MD 20892-2425
<https://www.nichd.nih.gov/>

UC Davis, College of L&S, Division of Social Sciences – Lunch with Leaders Sponsor

One Shields Avenue
Davis, CA 95616
<http://ls.ucdavis.edu/our-college/soc-sci/>

National Science Foundation – Travel Awards Sponsor

4201 Wilson Boulevard
Arlington, Virginia 22230
<http://www.nsf.gov/>

UC Davis, Department of Psychology – Lunch with Leaders Sponsor

135 Young Hall
One Shields Avenue
Davis, CA 95616
<http://psychology.ucdavis.edu/>

Wiley

350 Main St.
Malden, MA 02148
<http://www.wiley.com/WileyCDA/>

First Level

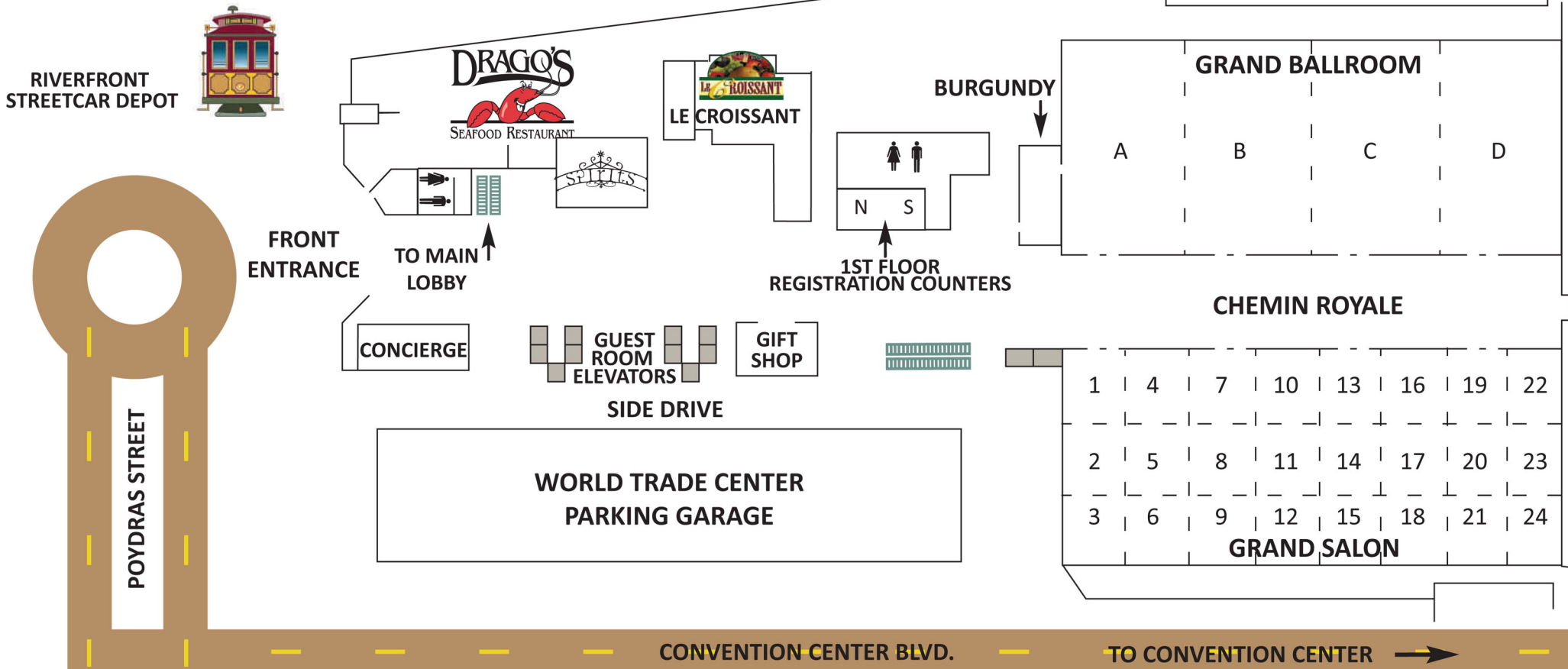
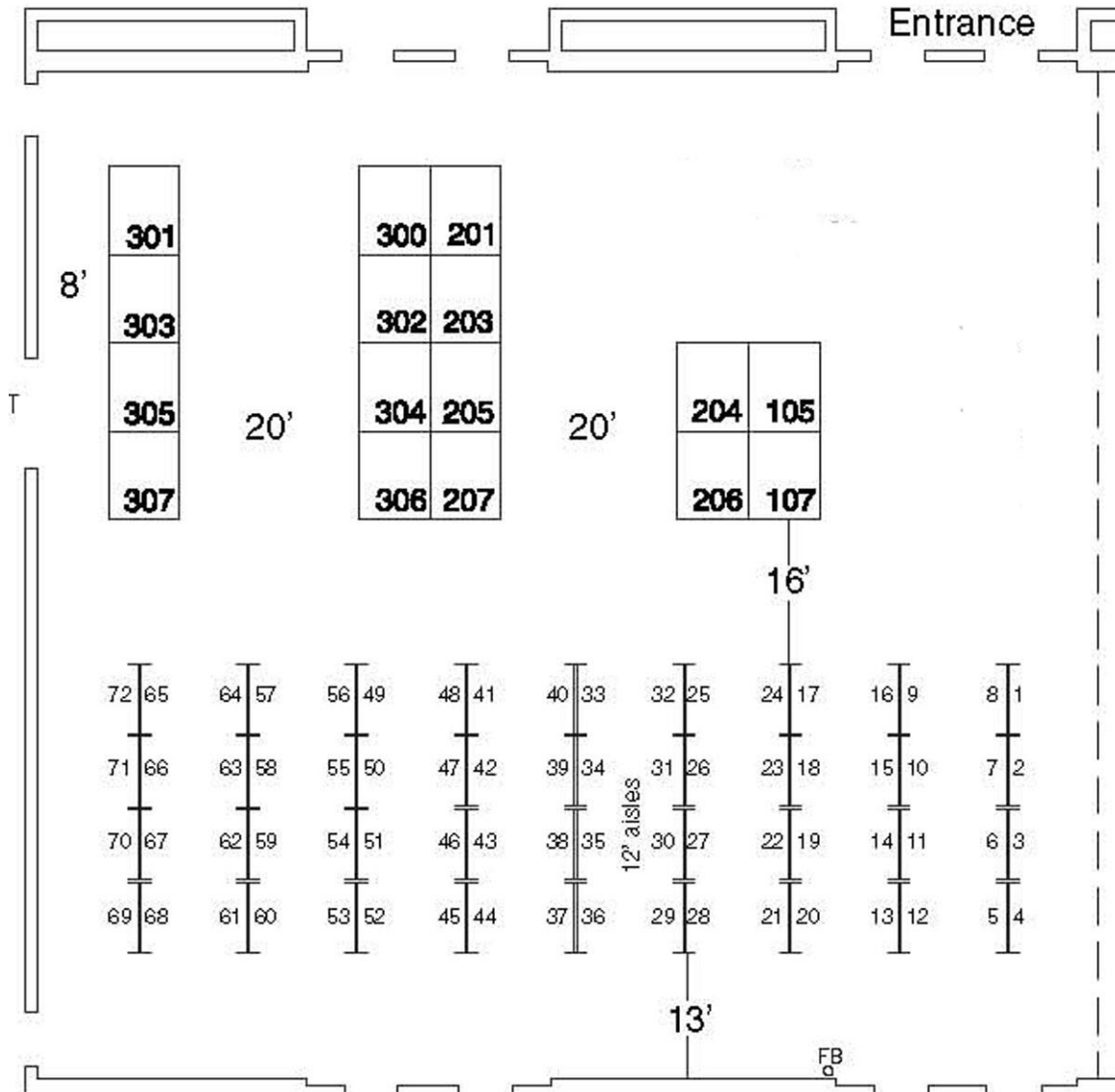


Exhibit Hall Floor Plan



2016 Invited Program

Presidential Address

Karen Adolph

Oh, Behave!

Grand Ballroom Salon A&B

Friday, 2:00pm-3:00pm



Biography: Karen E. Adolph is Professor of Psychology and Neuroscience at New York University. She received her B.A. from Sarah Lawrence College, her Ph.D. from Emory University, and completed a postdoctoral fellowship at the Albert Einstein College of Medicine. Adolph leads the Databrary.org project to enable video data sharing and reuse among developmental scientists. She is a Fellow of APA and APS and President of the International Congress of Infant Studies. She received the Cattell Sabbatical Award, APF Fantz Memorial Award, APA Boyd McCandless Award, ISIS Young Investigator Award, FIRST and MERIT awards from NICHD, and five teaching awards from NYU. She chaired the NIH study section on Motor Function and Speech Rehabilitation and serves on the Advisory Board of the McDonnell Foundation, the Board of Directors of the International Society for Ecological Psychology, and the Editorial Boards of Developmental Psychobiology, Developmental Science, and the Journal of Motor Learning & Development. Adolph's research examines effects of body growth, exploratory activity, environmental and social supports, and culture on perceptual-motor learning and development.

Plenary Speaker

Deb Roy

Birth of a Word

Grand Ballroom Salon A&B

Thursday, 9:00am-10:15am



Biography: Deb Roy is an Associate Professor at MIT, director of the Laboratory for Social Machines based at the MIT Media Lab, and Chief Media Scientist of Twitter. He studied computer engineering at the University of Waterloo, and completed his PhD in Media Arts and Sciences at MIT.

Description: Children learn words through an accumulation of interactions grounded in context. Although many factors in the learning environment have been shown to contribute to word learning in individual studies, no empirical synthesis connects across factors. We introduce a new ultradense corpus of audio and video recordings of a single child's life that allows us to measure the child's experience of each word in his vocabulary. This corpus provides the first direct comparison, to our knowledge, between different predictors of the child's production of individual words. We develop a series of new measures of the distinctiveness of the spatial, temporal, and linguistic contexts in which a word appears, and show that these measures are stronger predictors of learning than frequency of use and that, unlike frequency, they play a consistent role across different syntactic categories. Our findings provide a concrete instantiation of classic ideas about the role of coherent activities in word learning and demonstrate the value of large scale multimodal data in understanding children's language acquisition.

2016 Invited Program

Invited Speakers

Dick Aslin

Learning in Infancy: A Rational Response to Stability and Change

Grand Salon Room 15 & 18

Saturday, 2:30pm-3:45pm



Biography: Richard Aslin is the William R. Kenan Professor of Brain and Cognitive Sciences at the University of Rochester. He received his Ph.D. from the University of Minnesota's Institute of Child Development in 1975 and has been on the faculty at Rochester since 1984. He is the past-president of ICIS (2010-2012).

Description: There are two general modes of learning available to infants (and non-humans) who do not have access to language. The first is supervised learning in which feedback from the environment is readily available. This feedback could consist of observable outcomes produced via either self-generated actions or externally generated event consequences. There are two dilemmas facing a naive learner who attempts to rely on supervised learning: (1) many actions and external events have no obvious feedback, and (2) feedback signals are often available long after the causal chain of events has ended. The second mode of learning is unsupervised in which feedback is completely absent. In this mode, the naive learner must extract latent structures from mere observation. There are two dilemmas facing the unsupervised learner: (1) the potential number of latent structures is enormous, even with relatively simple events, and (2) without strong a priori biases, a search through this space of potential structures would be inefficient and time-consuming. Both of these modes of learning, therefore, present the naive learner with substantial obstacles, yet we know that infants learn and develop quite rapidly. To overcome these obstacles, infants must deploy a set of implicit strategies to reduce the computational complexity of the learning task, either by having immature sensory systems or by being placed in an environmental context that filters out irrelevant (or misleading) contingencies between events. Data supporting these developmental perspectives on learning in infancy will be summarized, with an emphasis on the trade-off between exploring a changing environment and exploiting a stable environment.

Maureen Black

Nutrition and Early Child Development: The First 1000 Days

Grand Salon Room 15 & 18

Thursday, 4:45pm-6:00pm



Biography: Maureen Black, Ph.D. is the John A. Scholl MD and Mary Louise Scholl MD Endowed Professor in the Department of Pediatrics, University of Maryland School of Medicine. She is a pediatric psychologist, director of the Growth and Nutrition Clinic, and an adjunct professor in the Center for Human Nutrition, Johns Hopkins Bloomberg School of Public Health.

Description: The first 1000 days (conception to age 24 months) represent a period where nutrition has a major influence on children's early development. This presentation is divided into six phases. Phase 1 examines how specific nutrients are linked to specific aspects of brain development. Phase 2 discusses measurement strategies related to nutrition and growth during infancy and toddlerhood. Phase 3 addresses the consequences of nutritional deficiencies during the first 1000 days, with specific attention to the timing, dose, and chronicity of deficiencies. This phase relies primarily on data from low- and middle-income countries where rates of undernutrition are high. It includes the long term consequences of early nutritional deficiencies, specifically stunting, on children's development, school performance, and adult health and well-being. Phase 4 addresses the consequences of over-nutrition (obesity), relying primarily on data from high income countries. Phase 5 addresses early feeding behavior and relations among parent behavior, infant feeding behavior, and early child development. Phase 6 reviews recent evidence on interventions to promote nutritional adequacy, beginning prior to conception and extending through the first 1000 days.

2016 Invited Program

Paul Bloom

Just Babies: The Origin of Good and Evil

Grand Salon Room 21 & 24

Saturday, 2:30pm-3:45pm



Biography: Paul Bloom is the Brooks and Suzanne Ragen Professor of Psychology at Yale. His research explores the developing understanding of domains such as morality and art. He has written for journals such as *Nature* and *Science*, and popular outlets such as *The New Yorker*, and is the co-editor of *BBS*.

Description: Babies possess a rich moral sense—they distinguish between good and bad acts and prefer good characters over bad ones. They feel compassion for others, and might even possess a primitive sense of justice. But this moral sense is narrow. Many principles that are central to adult morality, such as kindness to strangers, are the product of our intelligence and our imagination; they are not in our genes. And some of our natural moral intuitions have perverse consequences—we would be better off without them. After reviewing what we know about baby morality, I will zoom in on empathy and its development. Many psychologists and philosophers believe that empathy is the foundation of morality. I will argue that, from a developmental standpoint, empathy is nowhere near as important as many scholars believe it is. This is a good thing, because empathy is actually a poor moral guide. It is biased, short-sighted, and innumerate; we do better when we rely on a more distant compassion.

Ami Klin

The Ontogeny of Social Visual Engagement in Infants and Toddlers with Autism Spectrum Disorder

Grand Salon Room 21 & 24

Friday, 12:30pm-1:45pm



Biography: Ami Klin, Ph.D. is the Georgia Research Alliance Eminent Scholar Professor and Chief of the Division of Autism and Developmental Disabilities at Emory University School of Medicine, and Director of the Marcus Autism Center, Children's Healthcare of Atlanta, a National Institutes of Health Autism Centers of Excellence.

Description: This presentation highlights the critical role of early diagnosis and intervention in attenuating the symptoms of autism. Data will be presented on early diagnostic indicators obtained through eye-tracking-based behavioral assays that quantify the unfolding social disabilities in autism. In the study of densely-sampled cohorts over the course of the first 2 years of life, the results of these assays were used to generate "growth charts" of normative social engagement, and the deviations from the norm were taken as early indicators of risk. Subsequent studies focused on the screening and diagnostic utility of our methods in large samples of toddlers. This effort yielded high sensitivity and specificity for the screening for ASD in 16- to 30-month-old children. The ultimate goal of this effort is to develop objectified and quantitative tools for the detection of autism in infancy and toddlerhood, tools that might be deployed in primary care pediatricians' offices as part of a larger effort in implementation science: to deploy cost-effective tools for universal screening of ASD and related developmental delays. This work will be contextualized in terms of recent developmental social neuroscience research with toddlers with autism, which implicated developmentally very early emerging, and evolutionarily highly conserved, mechanisms of social adaptation, which set the stage for reciprocal social interaction, which in turn represent the platform for early social brain development.

2016 Invited Program

Nim Tottenham

Human Amygdala-PFC Circuit Development & the Role of Caregiving

Grand Salon Room 21 & 24

Thursday, 4:45pm-6:00pm



Biography: Nim Tottenham, Ph.D. is an associate professor of Psychology at Columbia University, who examines human limbic-cortical development and the role of early life experiences. She received her graduate and postdoctoral training at the University of Minnesota and the Sackler Institute for Developmental Psychobiology at Cornell. She is a recipient of the NIMH BRAINS Award and the APA Distinguished Scientific Award for Early Career Contribution to Psychology.

Description: Strong evidence indicates that reciprocal connections between the amygdala and medial prefrontal cortex (mPFC) support fundamental aspects of emotional behavior in adulthood. However, this circuitry is slow to develop in humans. In this talk, I will present developmental functional magnetic resonance imaging data describing age-related changes in amygdala-mPFC circuitry and how it relates to emergent emotional behaviors. The argument will be made that the development of this circuitry in humans is intimately associated with caregiving, such that parents exert significant and enduring neural modulation during development. I will focus on both typical development as well as development following caregiver deprivation (e.g., orphanage care in infancy), showing that early life stress may accelerate development of this circuitry. The findings presented are highly consistent with the animal literature showing both large changes in amygdala-mPFC circuitry throughout development, as well as the large influence of parental care in shaping this neural circuitry. These age-related changes will be discussed in terms of potential developmental sensitive periods for environmental influence.

2016 Invited Program

Views by Two

Comparative and Developmental Methods to Social Cognition

Grand Salon Room 15 & 18

Friday, 5:00pm-6:30pm

Laurie Santos

Yale University

The Evolution Origins of Theory of Mind?: New Insights into Infant Theory of Mind from Non-Human Primates



Abstract: How do we come to represent the thoughts, beliefs, and intentions of other people? Over the past decade, researchers have made great strides in developing non-verbal methods for studying both the ontogenetic and phylogenetic origins of human mental state representations. This recent work has come to suggest an important divide between the representations that human infants use to think about other minds and those used by nonhuman primates: while human infants show evidence of representing others' beliefs, to date nonhuman primates have not. However, other species do show a sophisticated ability to track others' current and past perceptions. In my talk, I'll explore what this pattern means for the origins of theory of mind representation more generally. I'll argue that nonhuman primates may possess a phylogenetically-old system for tracking other individuals' informational relations between agents and true (but not false) information. I'll then discuss how this view accounts both for nonhuman primates' performance in a range of theory of mind tasks as well as what it means for developmental accounts of infants' early theory of mind representations.

Felix Warneken

Harvard University

The Emergence of Human Cooperation: Evidence from Young Children and Chimpanzees



Abstract: Humans are able to cooperate with others in sophisticated, flexible ways: sharing valuable resources, assisting others who need help, and working together in teams to produce outcomes that lie beyond the capabilities of any one individual. But what psychological processes allow this variety of cooperative behaviors to emerge in humans? I will present a framework that derives hypotheses from evolutionary theory about the fundamental psychological processes that enable human cooperation. Specifically, I propose that for cooperation to evolve, individuals need a psychological machinery that solves to problems: identify and create opportunities for cooperative interactions with others (creating benefit) and mechanisms to solve the free-rider problem to sustain cooperation as a viable strategy (distributing benefit). I will present empirical studies with children examining the ontogenetic origins and development of these two sets of processes. In particular, while infants and toddlers already possess basic skills to help others and share valuable resources, social norms and social experience begin to influence children's cooperation in later ontogeny. These results are complemented by studies with chimpanzees to illuminate the extent to which these abilities are unique to humans, or shared with our evolutionary relatives. I conclude with a proposal of how this framework motivates new developmental, comparative, and cross-cultural research to shed light on the ontogenetic and phylogenetic roots of the psychological abilities underpinning human cooperation.

2016 Invited Program

Views by Two

Studying Autism with Technology - Sponsored by Positive Science

Grand Salon Room 21 & 24

Saturday, 12:45pm-2:15pm

Jim Rehg

Georgia Institute of Technology

Behavioral Imaging and the Analysis of Social Interactions



Abstract: Beginning in infancy, individuals acquire the social and communication skills that are vital for a healthy and productive life. Children with developmental delays face great challenges in acquiring these skills, resulting in substantial lifetime risks. Children with an Autism Spectrum Disorder (ASD) represent a particularly significant risk category, due both to the increasing rate of diagnosis of ASD and its consequences. Since the genetic basis for ASD is unclear, the diagnosis, treatment, and study of the disorder depends fundamentally on the observation of behavior. In this talk, I will describe our research agenda in Behavioral Imaging, which targets the capture, modeling, and analysis of social and communicative behaviors between children and their caregivers and peers. We are developing computational methods and statistical models for the analysis of vision, audio, and wearable sensor data. I will present several recent findings, including a method for detecting eye contact between children and adults using wearable cameras, an approach to retrieving behaviors of interest in large video collections, and the audio-video analysis of paralinguistic events in young children's speech. I will also describe our plans for clinical applications of this technology. This is joint work with Drs. Agata Rozga and Mark Clements, and Ph.D. students Eunji Chong, Arridhana Ciptadi, Yin Li, Hrishikesh Rao, and Zhefan Ye.

Brian Scassellati

Yale University

Teaching Social Skills with Social Robots



Abstract: In the last decade, there has been a slowly growing interaction between robotics researchers and clinicians to look at the viability of using robots as a tool for enhancing therapeutic and diagnostic options for individuals with autism spectrum disorder. While much of the early work in using robots for autism therapy lacked clinical rigor, new research is beginning to demonstrate that robots improve engagement and elicit novel social behaviors from people (particularly children and teenagers) with autism. However, why robots in particular show this capability, when similar interactions with other technology or with adults or peers fails to show this response, remains unknown. This talk will present some of the most recent evidence showing robots eliciting social behavior from individuals with autism and discuss some of the mechanisms by which these effects may be generated. As a diagnostic tool, robots offer a social press that is repeatable and controllable to allow for standardization of interactive stimuli across individuals and across time. Because robots can provide consistent, reliable actions, clinicians can ensure that identical stimuli are presented at each diagnostic session. Furthermore, the component systems in socially aware robots may offer non-interactive methods for tracking human-human social behaviors. The perceptual systems of these robots are designed to measure and quantify social behavior—that is, exactly the skills that must be identified during diagnosis.

2016 Invited Program

Views by Two

Language Learning in Multiple Language Contexts

Grand Salon Room 21 & 24

Friday, 5:00pm-6:30pm

Jesse Snedeker

Harvard University

Starting over: What Internationally Adopted Children Tell Us About How All Children Acquire Language



Abstract: Language development is marked by a predictable sequence of milestones. First, infants use single words for objects, people and social routines. Next they begin combining two or three words to make telegraphic sentences. Then they gradually acquire the grammatical resources of their language and begin to express more complex propositions. Why does language develop in this way? One possibility is that the sequence reflects cognitive and neural development: perhaps, as the child matures, she gains the ability to create more complex conceptual and linguistic representations and this is directly reflected in her speech. A second possibility is that the sequence results from the nature of the problem itself. Language may be a puzzle that can only be solved if we work through these steps, in this order. To explore this question, we have tracked the acquisition of English in internationally-adopted preschoolers. These children are in a unique situation. Like infants they acquire language from child-directed speech. Unlike most second language learners they do not maintain their first language and have little or no access to bilingual informants. But they are clearly older and more cognitively advanced than infant learners. We find that many (but not all) of the features of infant language development are present in these preschoolers, suggesting that the patterns are reflections of the learning process rather than maturation or cognitive development. This infant-like learning pattern begins to change at around 4 years of age. I'll discuss how this might relate to the critical period hypothesis.

Catherine Tamis-LeMonda

New York University

The Culture of Communication



Abstract: Culture infuses all aspects of communication, including the words, phrases, gestures, facial expressions, and body movements that characterize the social interactions of everyday life. Infants do not grow up in stark white laboratories where speech sounds, words, objects and actions are slowly and systematically presented in the absence of distractions. Rather, infants must make sense of meanings that are buried in an incessant barrage of sounds, sights, smells, tastes and touches as they participate in cultural activities of bathing, eating, play, book reading and so forth. Consequently, developmental scientists have long recognized the need to combine the meticulous rigor of experimental research with the study of everyday learning. In this presentation, I describe variations in infant-caregiver communicative interactions during naturalistic home observations in dyads from different ethnicities within and outside the United States – including infants from European American, Mexican immigrant, Dominican immigrant, African-American and Chinese backgrounds, and infants from communities outside the United States, including China, Tajikistan Kenya, and Cameroon. This cultural approach highlights the striking variability that characterizes infants' communicative worlds in terms of how much language infants hear, the extent to which gestures are used to communicate intention, the content, diversity and contingency of language, the social partners of communication, and how language is temporally distributed across everyday routines. In turn, these cultural variations play out in infants' emerging skills, ranging from how much infants use gestures and vocalizations to communicate and the extent to which they understand and respond to the gestures and language of social partners.

2016 Invited Program

Views by Two

Learning from Multiple Inputs by Humans and Robots

Grand Salon Room 15 & 18

Friday, 12:30pm-2:00pm

Pierre-Yves Oudeyer

French Institute for Research in Computer Science and Automation

How Baby Robots Help Us Understand Complex Dynamics in Development



Abstract: Understanding infant development is one of the greatest scientific challenges, as this is a massive complex dynamical system. The development of skills can be viewed as pattern formation through the interactions of multiple mechanisms at multiple spatio-temporal scales. Various processes of self-organization make that the concepts of “innate” or “acquired” are not adequate tools for explanation: what is needed is a shift from reductionist to systemic accounts. To address this challenge, it is insightful to build and experiment with robots that model the growing infant brain and body. This type of work can help explain how new patterns form in sensorimotor, cognitive, and social development. This complements traditional experimental methods in psychology and neuroscience where only a few variables can be studied at the same time. This also provides tools to model the mechanisms of development, going further than simply identifying correlations among variables in black-box statistical studies. Moreover, work with robots has enabled researchers to consider the body as a variable that can be systematically changed to study the impact on skill formation, something developmentalists could only dream about decades earlier. More generally, work with developing robots has shed new light on development as a complex dynamical system, leading to formal models that integrate mathematics, algorithms, and robots.

Linda Smith

Indiana University

From Hands-Eye Coordination to Words: A Pathways Approach to Development



Abstract: Theorists often refer to the far reach of developmental achievements in infancy in terms of a “developmental cascade.” This talk is about how to study that cascade, how doing so requires different methods and forms of explanation, and encourages new interdisciplinary connections. Borrowing from biologists and embryologists, a developmental pathway is defined as the route, or chain of events, through which a new structure or function forms. These pathways can be complex, multi-causal and contain unexpected dependencies. To illustrate a pathways approach, I will consider three developmental pathways – each begins with the development of coordinated hands and eyes and actions on objects and ends with object name learning. One pathway concerns head stability and stabilized visual attention. A second pathway is from hands and eyes to visual object recognition. The third concerns hand-eye coordination and the development of joint attention. The talk will present data from a series of experiments (many in collaboration with Chen Yu or Karin James) that studied 12 to 24 month old children that used head-mounted scene cameras and eye-trackers. Each of the three pathways is important and informative in its own right, but the overlapping, multi-causal nature of these pathways is the real lesson because they challenge usual analytic approaches in science and promote a synergistic approach to explanation (and a link to epigenetic robotics).

2016 Invited Program

Dedicated Session

Carolyn Rovee-Collier: Her Legacy for Science, Practice, and Academic Leadership

Grand Salon Room 21 & 24

Friday, 10:00am-11:30am



Organized by Harlene Hayne,

Speakers: Harlene Hayne, University of Otago; Andrew Meltzoff, University of Washington; Rachel Barr, Georgetown University; Kimberly Boller, Mathematica Policy Research

Abstract: Carolyn Rovee-Collier's research was the catalyst for a paradigm shift in our understanding of infant memory development. When she entered the field in the mid-1960's, infants were thought to learn little and remember even less. Carolyn's research has forever changed those views, showing that infants learn quickly, remember over long periods of time, and retrieve and use their memories in a wide range of circumstances. Many of her views were as controversial as they were profound, and they changed our thinking in multiple fields. Her work has been recognized by the Warren Medal from the Society of Experimental Psychologists and a Distinguished Scientific Contribution award from the Society for Research in Child Development. She served as president of ICIS, of the Eastern Psychological Association, and of the International Society for Developmental Psychobiology. She was the editor of *Infant Behavior and Development* for 18 years. The impact of Carolyn's career extends beyond her CV. She was a personal force of nature who was highly committed to nurturing the careers of others. Her work and her support of our careers left a lasting impression on us and others. On October 2, 2014, Professor Carolyn Rovee-Collier lost her brave battle with breast cancer, following years of living with multiple sclerosis. In this symposium we will celebrate the work of Professor Carolyn Rovee-Collier. We will highlight some of her major research achievements, trace her influence on our own research and leadership careers, and highlight her impact on the field of infancy generally and on ICIS in particular.

Biography: Harlene Hayne received her PhD from Rutgers University under the direction of Carolyn Rovee-Collier. Professor Hayne is now the Vice-Chancellor (President) of the University of Otago. She is a Fellow of the Royal Society of New Zealand and of the American Psychological Society, the Deputy Chair of the Board of Fulbright New Zealand, and a member of the Board of the New Zealand Treasury.

2016 Invited Program

Dedicated Session



In Honor of Gerald Turkewitz: His Scientific Legacy- Sponsored by Johnson & Johnson Consumer Inc.

Grand Salon Room 21 & 24
Saturday, 10:15am-11:45am

Organized by David Lewkowicz

Speakers: David J. Lewkowicz, Northeastern University; Robert Lickliter, Florida International University; David S. Moore, Pitzer College; Janet Werker, University of British Columbia

Abstract: To honor Turkewitz, Lewkowicz will begin by reviewing his early work with Turkewitz in neonates and will discuss how this led to his current work on the effects of early experience on multisensory perception. He will show that the multisensory world of young infants is relatively undifferentiated due to sensory limitations and that with the acquisition of experience infants gradually shed their primitive perceptual response mechanisms via perceptual narrowing and differentiation and, consequently, acquire a cognitively and socially meaningful representation of their multisensory world. Lickliter also will discuss Turkewitz's principle of sensory limitations and will show how it guided his research on the prenatal factors that contribute to early perceptual development in birds. He will then suggest that the sensory limitations principle can be applied to the management of high risk preterm infants to ensure their optimal development. Moore will argue that, based on Turkewitz's ideas, we must consider physical mechanisms and the antecedent causes of specific behaviors to understand developmental outcomes. He will then discuss how these insights led him to think about prenatal events, to consider what developmental and molecular biology can teach developmental psychologists, and how this led him to developmental systems theory and behavioral epigenetics. Finally, Werker will discuss her research on the development of infant speech perception to illustrate Turkewitz's three deep and direct influences on her thinking: (1) development begins prenatally and is a multifaceted process, (2) developmental status and timing are key to understanding early experience, and (3) the sensory systems emerge sequentially.

Biography: David J. Lewkowicz is Professor in the Department of Communication Sciences & Disorders at Northeastern University. He investigates infant perceptual and cognitive development with a focus on the development of multisensory processing & sequence learning in object, speech, language, and social perception and is also keenly interested in developmental theory.

2016 Invited Program

Presidential Symposium

Global Issues in Development
Grand Salon Room 21 & 24
Friday, 8:15am-9:45am

Cristine Legare

University of Texas at Austin

The Ontogeny of Cultural Learning



Abstract: Humans are a social species and much of what we know we learn from others. To be effective and efficient learners, children must be selective about when to innovate, when to imitate, and to what degree. In a systematic program of interdisciplinary, mixed-methodological, and cross-cultural research, my objective is to develop an ontological account of how children flexibly use imitation and innovation as dual engines of cultural learning. Imitation is multifunctional; it is used to learn both instrumental skills and cultural conventions such as rituals. I propose that the psychological system supporting the acquisition of instrumental skills and cultural conventions is driven by two modes of interpretation: an instrumental stance (i.e., interpretation based on physical causation) and a ritual stance (i.e., interpretation based on social convention). What distinguishes instrumental from conventional practices often cannot be determined directly from the action alone but requires interpretation by the learner based on social cues and contextual information. I will present evidence for the kinds of information children use to guide flexible imitation. I will also discuss cross-cultural research in the U.S. and Vanuatu (a Melanesian archipelago) on the interplay of imitation and innovation in early childhood.

Sandra Waxman

Northwestern University

Thinking about Nature: Across Cultures, Across Languages and Across Development



Abstract: How do our most fundamental concepts of the natural world – living thing, animal, human -- unfold? How do we view the relations among them? Until recently, research in this arena focused predominantly on children from Western, urban, technologically-advanced communities. But to discover which notions are universal and how they are shaped by experience, we have adopted a cross-linguistic, cross-cultural approach. I'll describe (decades of) evidence illuminating how young children from diverse cultural and language communities acquire fundamental concepts of the natural world and how their knowledge is shaped by the communities in which they are immersed (including children from the US (native and non-native Americans) and Argentina's Chaco rainforest). This basic research, which underscores the challenges facing young children in learning about the natural world, has implications for science education and children's media. To teach effectively, we need to understand the systems of knowledge that children bring with them to their increasingly diverse US classrooms.

2016 Invited Program

Invited Symposium

The Development of Attentional Control in Infancy: Insights from Eye-Movements

Grand Salon Room 21 & 24

Thursday, 1:00pm-2:30pm



Susan Rivera

University of California at Davis

Eye Movements as Window into Brain Development in Typically and Atypically Developing Children



Shannon Ross-Sheehy

East Tennessee State University

Using Eye Movements and Pupilometry to Assess Functional Brain Development in Infants



Sam Wass

University of East London

Using Eye Movements to Assess Individual Differences in Infancy: Some Methodological Challenges, and Ideas for New Approaches

Integrative Statement: This symposium brings together cutting-edge research evaluating infants' looking and eye-gaze behavior to uncover neurocognitive development in typical and atypical developing populations. Each presentation will highlight work illustrating the development and adaptation of procedures designed to assess visual attentional processes, and demonstrating how such procedures reveal insight into developmental processes and different developmental trajectories associated with risk for atypical development. Shannon Ross-Sheehy (Eastern Tennessee State University) will describe novel methods for using eye movements and changes in pupil diameter to assess neurocognitive development in infancy. Sam Wass (MRC-Cognition and Brain Sciences Unit) will discuss methodological challenges in understanding individual differences in infancy, and describe original solutions using gaze-contingent paradigms to train attention and aid. Susan Rivera (University of California, Davis) will present state-of-the-art work illustrating how eye-movements can be used to uncover development of brain functioning in both typically and atypically developing children. With a focus on innovative methods and analyses, the work presented will show how assessment of eye-movements is not simply a better tool. Rather, this method allows us to ask new questions about development.

2016 Invited Program

Invited Symposium

Methods and Meanings: New Insights into Infant Emotional Processes

Grand Salon Room 21 & 24

Saturday, 8:30am-10:00am



Daniel Messinger

University of Miami

Measuring Emotional Process: Objective, Subjective, and Automated Approaches



Koraly Perez-Edgar

Pennsylvania State University

Finding the Core of Emotion: Parental Report, Laboratory Observation, and Infant Behavior

Integrative Statement: At first blush, our ability to identify emotional responses seems quite obvious, since we all experience and are exposed to a myriad of emotions every day. However, emotions become scientifically elusive when we try to define them in the laboratory. Despite being a popular research topic among neuroscientists, social psychologists, developmental psychologists, and clinicians, there is no single agreed-upon definition of what an emotion is, and similarly, no consistent methods for measuring emotions across disciplines. Feldman Barrett (2016) suggested, “If we want to know whether a person is experiencing an emotion, we have to ask them” (p. 24). While infants are not very good at answering questions, an emerging synthesis of behavioral and neurophysiological methods suggests multiple, potentially converging levels of analysis for investigating infant emotional life and development. Here we present the work of two researchers who use new and innovative behavioral and physiological methods for studying emotions in infancy. Koraly-Perez Edgar (Penn State University) will present research using parental report, laboratory observation, and eye-tracking technology to measure infants’ emotional behaviors and how these behaviors may predict the development of anxiety. Daniel Messinger (University of Miami) will present research using objective (automatic measurement) and subjective (ratings) of infant facial expressions to study emotional and interaction dynamics in infancy.

THURSDAY

Thursday, 9:00am-10:15am

(Event 1-001) Plenary Speaker

Grand Ballroom Salon A&B
Thursday, 9:00am-10:15am

1-001. Birth of a Word

Chair: *Karen E. Adolph*
Speaker: *Deb Roy*

Description: Children learn words through an accumulation of interactions grounded in context. Although many factors in the learning environment have been shown to contribute to word learning in individual studies, no empirical synthesis connects across factors. We introduce a new ultradense corpus of audio and video recordings of a single child's life that allows us to measure the child's experience of each word in his vocabulary. This corpus provides the first direct comparison, to our knowledge, between different predictors of the child's production of individual words. We develop a series of new measures of the distinctiveness of the spatial, temporal, and linguistic contexts in which a word appears, and show that these measures are stronger predictors of learning than frequency of use and that, unlike frequency, they play a consistent role across different syntactic categories. Our findings provide a concrete instantiation of classic ideas about the role of coherent activities in word learning and demonstrate the value of large scale multimodal data in understanding children's language acquisition.

Biography: Deb Roy is an Associate Professor at MIT, director of the Laboratory for Social Machines based at the MIT Media Lab, and Chief Media Scientist of Twitter. He studied computer engineering at the University of Waterloo, and completed his PhD in Media Arts and Sciences at MIT.

Thursday, 10:30am-12:00pm

(Event 1-002) Paper Session

Grand Salon Room 21 & 24
Thursday, 10:30am-12:00pm

1-002. Strategies and Contexts for Word Learning

Chair: *Larissa K Samuelson*

- Infants learn novel words faster from their mother: Electrophysiological evidence
Karlijn Blommers, Sascha Couvee, Caroline Junge
- Linking the shape bias to visual attention and memory processes: A Dynamic Neural Field model
Larissa K Samuelson, Sammy Perone, John P Spencer
- Choosing words wisely: How infants strategically seek information when learning novel words.
Martin Zettersten, Jenny Saffran
- Specific structural features of child-directed speech influence early word learning
Jessica Schwab, Casey Lew-Williams

(Event 1-003) Paper Symposium

Grand Salon Room 15 & 18
Thursday, 10:30am-12:00pm

1-003. Computations in the crib: How cost-benefit analyses guide early social cognition and behavior

Chair: *Arber Tasimi*

- Minimal cues of social benefits compel infants to ascribe the goal of giving
Denis Tatone, Mikolaj Hernik, Gergely Csibra
- Physical costs influence infants' helping behavior
Jessica Sommerville, Miranda J. Sitch, Elizabeth A. Ake
- Costly rejection of wrongdoers by infants and children
Arber Tasimi, Karen Wynn
- Costs, utilities, and plans: Social cognition beyond goal inference
Julian Jara-Ettinger, Samantha Floyd, Joshua B. Tenenbaum, Laura E. Schulz

(Event 1-004) Paper Symposium

Grand Salon Room 12
Thursday, 10:30am-12:00pm

1-004. Hunter & Ames Revisited: Explaining and Predicting Infants' (Individual) Attentional Preferences

Chair: *Brigitta Keij*

- Infants' Familiarity and Novelty Preferences in the Auditory Domain at 7 and 9 Months Predict Language Development
Jill Lany
- Novelty or Familiarity? A Closer Look at Preference Patterns in a Word Segmentation Task
Laura Bosch, Maria Teixidó, Jorgina Solé
- Rational Approaches to Attention and Learning in Infants
Celeste Kidd

(Event 1-005) Paper Symposium

Grand Salon Room 9
Thursday, 10:30am-12:00pm

1-005. Genericity bias in development: where does it come from and what is it good for?

Chair: *Gergely Csibra*

- The influence of category knowledge on infant working memory: evidence from an EEG study in 12 month-old infants
Barbara Pomiechowska, Teodora Gliga
- Infants selectively prepare to learn from a teacher conveying kind-based information
Katarina Begus, Victoria Southgate
- Adults reveal an implicit bias to make inferences about kinds
Shelbie Sutherland, Andrei Cimpian, Sara-Jane Leslie, Susan A. Gelman

THURSDAY

(Event 1-006) Paper Symposium

Grand Salon Room 6
Thursday, 10:30am-12:00pm

1-006. Family Contexts for Parental Emotion Socialization Practices: Findings from the Michigan Infant-Toddler Research Exchange

Chair: *Holly E. Brophy-Herb*

- Predictors of triadic family engagement post-stressor among impoverished 2-year-old children and their parents
Erika London Bocknek, *Lucy McGoron, Hasti Raveau*
- Child Temperament Moderates the Association between Maternal Sensitivity and Toddler Self-Regulation
Ju-Hyun Song, *Alison Miller, Christy Y. Y. Leung, Julie Lumeng, Katherine L. Rosenblum*
- Parenting and Coparenting Predictors of Parents' Negative Responses to Toddlers' Emotions
Holly E. Brophy-Herb, *Brittany Motz, Danielle Dalimonte-Merckling, Alixandra Vanbuskirk, Rikki McClelland, Hailey Choi*
- Contributions of Parent-Child Interactions (14-36 Months) to Children's Mental State Language at Transition to Kindergarten
Neda Senehi, *Holly E. Brophy-Herb*

(Event 1-007) Paper Session

Grand Salon Room 3
Thursday, 10:30am-12:00pm

1-007. Infant Word Learning and Word Recognition

Chair: *Catherine T. Best*

- Contingent labeling after infants' pointing supports learning word-object associations
Zhen Wu, Julie Gros-Louis
- Social cues on screen enhance 12-month-old infants' word learning
Sho Tsuji, *Reiko Mazuka, Nobuyuki Jincho, Alejandrina Cristia*
- Category-shifting consonant differences between English accents do not interfere with familiar word recognition at 14 or 19 months
Catherine T. Best, *Sophie Gates, Christine Kitamura, Gerry Docherty, Bronwen G. Evans*
- Exposure to speakers of each of two English accents at 14 months boosts recognition of new words by the same speakers at 19 months
Catherine T. Best, *Sophie Gates, Christine Kitamura, Gerry Docherty, Bronwen G. Evans*

(Event 1-008) Paper Symposium

Grand Salon Room 13
Thursday, 10:30am-12:00pm

1-008. Maternal Pre- and Post-natal Stress and Infant Temperament: Specificity, Mechanisms and Timing of Effects

Chair: *David Bridgett*

- Maternal prenatal stress predicts infant affectivity and duration of orienting
Saara Nolvi, *Linnea Karlsson, Anja C Huizink, Eeva-Leena Kataja, Hasse Karlsson*
- Prenatal SSRI Antidepressant Exposure, Neonatal Methylation status of SLC6A4 and Infant Soothability at 3 and 6 Months
Maria Gartstein, *Kaia Kaia Hookenson, Ursula M Brain, Angela M Devlin, Ruth E Grunau, Tim F Oberlander*
- Cross-lagged Relations between Maternal Stress and Infant Negative Affect during the First Year of Life
Jacob Holzman, *David Bridgett*

(Event 1-009) Paper Session

Grand Salon Room 16
Thursday, 10:30am-12:00pm

1-009. Fathers' Role in Infant Development and the Family Environment

Chair: *Geoffrey L. Brown*

- Paternal characteristics as predictors of observed maternal gatekeeping behaviors in infancy
Marie Deschênes, *Sarah J Schoppe-Sullivan, Lauren E. Altenburger, Claire Kamp Dush*
 - The Longitudinal Association between Infant Negativity and Maternal Gate-Closing: Mediation through Maternal Parenting Stress
Julia Yan, *Sarah J Schoppe-Sullivan, Claire Kamp Dush*
 - Maternal Gatekeeping, Father-Infant Relationship Quality, and Toddler Social-Emotional Adjustment
Lauren E. Altenburger, *Sarah J Schoppe-Sullivan, Claire Kamp Dush*
 - Determinants of Fathering Behavior with Infants: Differential Correlates for Quantity and Quality of Parenting
Geoffrey L. Brown, *Sarah C. Mangelsdorf*
-

THURSDAY

(Event 1-010) Poster Symposium

Grand Ballroom Salon C&D (Exhibit Hall)
Thursday, 10:30am-12:00pm

1-010. Social interaction and learning: Contributions of contingent responding and mimicry

Chair: *Elizabeth B. daSilva*

- The Effects of Parental Imitation and Ostensive Signals on Facial Mimicry in 4-month-old Infants
Carina de Klerk, *Victoria Southgate*
- Effect of Maternal Mirroring Behavior on Infants' Social Bidding during the Still Face Task
Ann Ellen Bigelow, *Michelle Power, Maria Bulmer, Katlyn Gerrior*
- The role of maternal mimicry in shaping self-regulation during the Still Face Paradigm
Elizabeth B. daSilva, *Bennett Bertenthal*
- The role of contingency in vocal learning from biological and non-biological interaction partners
Michael Goldstein, *Jennifer Schwade*

(Event 1-011) Poster Session

Grand Ballroom Salon C&D (Exhibit Hall)
Thursday, 10:30am-12:00pm

1-011. Poster Session 1

Attention, Memory, and Learning

- 1 The development of object-based attention in infancy
Heidi Baumgartner, *Sara Haas, Laura Ackerman, Natasha Kirkham, Dima Amso*
- 2 Parent Cognitive Stimulation and Infant Sustained Attention in a Low-Income Sample
Caitlin Cantfield, *Clancy Blair, Susan Rose, Catherine S. Tamis-LeMonda, Judith Feldman, Adriana Weisleder, Jeffery Jankowski, Nina Burtchen, Carolyn Brockmeyer Cates, Benard Dreyer, F. Xavier Castellanos, Alan Mendelsohn*
- 3 I like that one best: Evaluative conditioning and infant preferences
Jenny Richmond, *Jenna Zhao, Gabrielle Weidemann*
- 4 By-passing Strategic Recall: Experimentally Induced Spontaneous Memories in 35-month-old Children
Peter Krojgaard, *Osman Skjold Kingo, Toril Sveistrup Jensen, Berntsen Dorthe*

Cognitive Development

- 5 Prereaching infants expect causal agents to act efficiently without motor training
Shari Liu, *Neon Brooks, Elizabeth S. Spelke*
- 6 Is 18-month-olds' imitation influenced by emotional cues?
Christiane Patzwald, *Charlotte Curley, Petra Hauf, Birgit Elsner*

- 7 Guiding Infants' Visual Attention Aids 6-Month-Olds' Understanding of Sliding but not Waving Actions
Charlotte Curley, *Petra Hauf*
- 8 Does one meow a cat-egory make? Infants' Generalizations of Sound Properties
Ena Vukatana, *Susan Graham, Suzanne Curtin*
- 9 Modeling Dynamics of Infant Category Learning
Samuel Rivera, *Olivia Guest, Keith S Apfelbaum, Kim Plunkett, Vladimir Sloutsky*
- 10 The Role of Choice in Moral Permissibility
Sydney Levine, *Talia Waltzer, Alan M. Leslie*
- 11 The cognitive-sensorimotor scale of the NEPS: A validation study of a very short assessment instrument at the age of 7 to 9 months
Manja Attig, *Jan-David Freund, Sabine Weinert*
- 12 Operational momentum during ordering operations in 4-month-old infants
Viola Macchi Cassia, *Hermann Bulf, Maria Dolores de Hevia, Koleen McCrink*
- 13 Early social learning of tools
Erika Nurmsoo, *Angelique Eydam, Afiya Carby, Laetitia Rater*
- 14 Links between Infants' Emerging Intention Understanding and Parents' Adoption of an Intentional Stance
Wyntre Stout, *Kelsey Ann Moty, Amanda Brandone*

Communication and Language

- 15 Within-language Semantic Priming in 24-month-old Monolinguals and Bilinguals
Krista Byers-Heinlein, Elizabeth Morin-Lessard, Michela Martiniello, Amel Jardak
- 16 Monolingual and bilingual infants' visual attention and use of pragmatic cues in novel word learning
Christina Schonberg, *Catherine Sandhofer, Scott Johnson*
- 17 'It's a big world': understanding the factors guiding early vocabulary development in bilinguals
Claire Delle Luche, *Rosa Kwok Wan, Samantha Durrant, Janette Chow, Klara Horvath, Allegra Cattani, Kirsten Abbot-Smith, Andrea Krott, Debra Mills, Kim Plunkett, Caroline Rowland, Caroline Floccia*
- 18 Differences in joint engagement of 18-month-olds from diverse socio-demographic groups in the same city
Susanna Jeschonek-Seidel, Ulf Liszkowski
- 19 Speed-accuracy tradeoffs during real-time language comprehension in children learning English and American Sign Language
Kyle MacDonald, *Virginia Marchman, Anne Fernald*
- 20 Caregivers' verbal production predicts children's language
Paloma Suarez, *Elda Alicia Alva, Tania Valdés*

THURSDAY

- 21 "Mum did this, but you do that": Isolating the factors that shape the coordinated nature of early parent-infant interactions
Annette Henderson, Mark Sagar, Josie Adams, Cindy Chong, Sara Noble
- 22 Where's the pause button? Toddlers' word learning following interrupted dyadic interactions
Jessa Reed, Kathy Hirsh-Pasek, Roberta Michnick Golinkoff
- 23 Executive Function Predictors of Preschoolers' Talk
Jacqlyne D. Weber, **Wallace E. Dixon, Jr.**, Jaima S. Price
- 24 Learning Nouns and Verbs via Cross-situational Statistics
Stanka A. Fitneva
- 25 Successful Switch Performance with Minimal Pair Labels using Social Cues and Eye Tracking
Laura Mills-Smith, Alison Rae Heck, Robin Panneton
- 26 The Effect of Infant-Directed Singing on Infants Learning Novel Words
Hsiao-Hsuan Chen, Feng-Ming Tsao
- 27 Preterm infants segment words from fluent speech by 6 months of age, as full-term infants
Leo-Lyuki Nishibayashi, Elena Berdasco-Munoz, Valérie Biran, Olivier Baud, Thierry Nazzi
- 28 English-learning Infants Are Sensitive to Phonotactic Probabilities at Six Months
Glenda Molina Onario, James Morgan
- 29 Comparing preterm and full term infants' sensitivity to sibilant-liquid phonotactics
Melanie Soderstrom, Amanda Seidl
- 30 Early sensitivity to vowel mispronunciations in word segmentation
Mireia Marimon, **Núria Sebastián-Gallés**

Developmental Neuroscience

- 31 Neural Mirroring and Functional Connectivity in Infancy: A Frequency Band Analysis
Lauren Bryant, Kimberly Valerio, Kimberly Cuevas
- 32 The Relation between Infant Covert Orienting, Sustained Attention and Brain Activity
Wanze Xie, John E. Richards
- 33 Sleep-Wake States and Feeding Competency in Very Preterm Infants
Jinhee Park, Suzanne Thoyre, Heba E Kamhawy, Debra Brandon
- 34 The effects of maternal adverse childhood events on infant heart rate variability are moderated by sex and racially specific
Christopher W Jones, Katherine Theall, Stacy Drury

Emotional Development

- 35 Mind-Mindedness of Male and Female Caregivers in Childcare and the Relation to Sensitivity and Attachment
Cristina Colonnese, Marleen van Polanen, Louis Tavecchio, Ruben Fukkink
- 36 The Development of Infants' Expectations of Emotional Outcomes
Peter Reschke, Eric A Walle, Ross Flom
- 37 Happy Mom, Healthy Baby: Maternal Prenatal Well-Being Predicts Preterm Birth and Toddler Cognitive Development
Laura Glynn, Elysia Davis, Curt A. Sandman
- 38 Five Arguable Conclusions from the First Century of Systematic Research on Infant Crying
James A. Green, Gwen E. Gustafson
- 39 Pain-related stress during Neonatal Intensive Care Unit stay and socio-emotional stress response in very preterm infants
Rosario Montiroso, Livio Provenzi, Monica Fumagalli, Francesco Morandi, Ida Sirgiovanni, Hilarj Tasca, Fabio Mosca, Renato Borgatti
- 40 The Impact of Hurricane Katrina on Young Children
Kristin Leigh Callahan, Joy D. Osofsky, Michelle B Moore, Tonya C. Hansel, Jennifer B. Hughes
- 41 Does Emotion Learning Influence Fear Processing in Infancy?
Kristina Safar, Margaret C Moulson
- 42 Discrimination of Emotional Faces in Infancy and Early Childhood: A Longitudinal ERP Study
Sarah Anne McCormick, Alissa Westerlund, Lindsay C. Bowman, Perry Dinardo, Anna M. Zhou, Charles A. Nelson
- 43 Children's Positive Affect is Reflected in Systematic Changes in Postural Elevation
Robert Hepach, Amrisha Vaish, Michael Tomasello
- 44 Parent-infant communication about discrete emotions: Where to attend?
Jennifer M. Knothe, Eric A Walle
- 45 Relation between spontaneous and social smiling: a longitudinal study
Fumito Kawakami

Motor and Sensorimotor Processes

- 46 Movement information is sufficient for 15-month-olds to predict others' actions
Claudia Elsner, Janny C. Stapel, Martyna Galazka, Gustaf Gredebäck
- 47 Productive action verbs are associated with sensorimotor mu-synchronization
Katharina Eva Maria Ledergerber, Moritz M. Daum
- 48 Hand-Use for Reaching and Object Exploration in Infants with Impaired Upper Extremity Functioning: Preferences vs. Affordances
Iryna Babik, Naimisha Movva, Michele Lobo

THURSDAY

49 Early visual-manual abilities influence on the perception of object invariance and language development
Laura Colosimo, Larissa K Samuelson

50 Consistency in handedness over 6 to 60 months is linked to school readiness
Sandy Gonzalez, Eliza L Nelson, Julie Campbell, Emily Marcinowski, George Michel

Pediatric Issues, Psychopathology and Developmental Delay

51 The role of temperament and broader autism phenotype in the prediction of toddlerhood externalising and internalising symptoms
Mirko Uljarevic, Katherine Crea, Cheryl Dissanayake, Kristelle Hudry

52 Neonatal characteristics, clinical health status, and behavior problems in toddlers born extremely and very preterm
Cláudia Maria Gaspardo, Rafaela Guilherme Monte Cassiano, Doane Sábio Servidone, Juliana Cunha Lima Rodrigues, Ricardo Augusto de Deus Facioli, Guilherme Cordaro Bucker Furini, Francisco Eulógio Martinez, Beatriz Linhares

53 Temperament and behavior in toddlers born preterm regarding preterm birth and its complications
Rafaela Guilherme Monte Cassiano, Cláudia Maria Gaspardo, Doane Sábio Servidone, Juliana Cunha Lima Rodrigues, Guilherme Cordaro Bucker Furini, Ricardo Augusto de Deus Facioli, Francisco Eulógio Martinez, Beatriz Linhares

54 Gestational age from 35-41 weeks predicts longitudinal patterns of risk for developmental delay in the second year
Gwenden Dueker, Jing Chen, Candace Cowling

55 Sleep and Language Development: Insights From a Cross-Syndrome Infant Study
Dean D'Souza, Hana D'Souza, Klara Horvath, Annette Karmiloff-Smith

Perception

56 Infant Social Categorization of Sex from Biological Motion
Tawny Tsang, Bryan Nguyen, Kerri Johnson, Scott Johnson

57 Infants use timing constraints to discriminate possible and impossible actions
Joshua Juvrud, Marta Bakker, Gustaf Gredebäck

58 Using Augmented Reality to Visualize Positive and Negative Affordances in Everyday Environments during the First Year of Life
Miho Nishizaki

59 Differences in Transitional Saccades in 4-month-olds When Viewing Pairs of Possible and Impossible Objects
Sarah Shuwairi, **Julie A. Planke**

Social Development

60 How exposure to sociolinguistic variation impacts infants' evaluations of accented speakers
Melissa Paquette-Smith, Elizabeth K. Johnson

61 The Role of Mimicry on Infants' Emerging Action Prediction and Understanding
Eugene Kim, Bennett Bertenthal

62 Infants' and toddlers' use of social understanding in daily life: Individual differences and changes over time
Joan E Test, Leah Ashley Harris

63 High- and Low-Risk Parents' Reactions to Prolonged Infant Crying: An Experimental Approach
Kreila Elizabeth Cote, Christie Miksys, Sapir Sasson, Jennifer Milliken, Julie L Crouch, David Bridgett, Joel S Milner, Thomas R McCanne

64 Timing of maternal feedback to newborn behavior
Sara Dominguez, Emmanuel Devouche, Gisèle Apter, Maya Gratier

65 Risk and Resilience in 9/11 Pregnant Widows and Their Infants at 4 Months
Beatrice Beebe, Christina Hoven, Mark Sossin, Phyllis Cohen, Suzi Tortora, Sally Moskowitz, Rita Reiswig, Anni Bergman, Donna Demetri Friedman, Nataliya Rubinchik, Anna-Lee Stafford, Killian Folse, Kristen Kim, Molly Rappaport, Yana Kuchirko

66 Dopamine and Looking Patterns in the Face-to-Face/Still-Face
Katherine Blair Martin, Katherine Zambrana, Devon Nicole Gangi, Michael Cuccaro, Daniel Messinger

67 Early Genetic Risk Factor for Externalizing May Have Protective Qualities Against Internalizing
Gabriel A Casher, Megan K McCrary, Emma B Diaz, Lisabeth F DiLalla

68 A longitudinal investigation of individual differences in imitation in the first year
Ben Kenward, Mari Fransson, Marcus Lindskog, Gustaf Gredebäck, Carin Marciszko

69 Parent Personality and Infant Temperament and Their Effects on Parental Sensitivity
Lauren Grace Bailes, Diane M Lickenbrock

THURSDAY

Thursday, 12:00pm-1:00pm

(Event 1-012) Special Event

Grand Salon Room 19 & 22

Thursday, 12:00pm-1:00pm

1-012. Lunch with Leaders

Leaders: *Nathan Fox, Susan Graham, Jeff Lockman, Koraly Perez-Edgar, Paul C. Quinn, Susan Rivera, Larissa Samuelson, Felix Warneken*

This event provides a forum for students to interact with senior scholars who have central roles in the field of infant studies. Registration and payment of a \$10 fee is required for this event prior to the conference.

(Event 1-013) Special Event

Grand Salon Room 10

Thursday, 12:00pm-1:00pm

1-013. National Science Foundation and National Institutes of Health Conversation Hour

Presenters: *Laura Namy, Lisa Freund*

Come participate in an informal discussion of funding opportunities within NSF and NIH and best practices for preparing competitive grant proposals. Feel free to bring your lunch!

Thursday, 1:00pm-2:30pm

(Event 1-014) Invited Symposium

Grand Salon Room 21 & 24

Thursday, 1:00pm-2:30pm

1-014. The Development of Attentional Control in Infancy: Insights from Eye-Movements

Chair: *Shannon Ross-Sheehy*

Integrative Statement: This symposium brings together cutting-edge research evaluating infants' looking and eye-gaze behavior to uncover neurocognitive development in typical and atypical developing populations. Each presentation will highlight work illustrating the development and adaptation of procedures designed to assess visual attentional processes, and demonstrating how such procedures reveal insight into developmental processes and different developmental trajectories associated with risk for atypical development. Shannon Ross-Sheehy (Eastern Tennessee State University) will describe novel methods for using eye movements and changes in pupil diameter to assess neurocognitive development in infancy. Sam Wass (MRC-Cognition and Brain Sciences Unit) will discuss methodological challenges in understanding individual differences in infancy, and describe original solutions using gaze-contingent paradigms to train attention and aid. Susan Rivera (University of California, Davis) will present state-of-the-art work illustrating how eye-movements can be used to uncover development of brain functioning in both typically and atypically developing children. With a focus on innovative methods and analyses, the work presented will show how assessment of eye-movements is not simply a better tool. Rather, this method allows us to ask new questions about development.

- Using Eye Movements and Pupilometry to Assess Functional Brain Development in Infants
Shannon Ross-Sheehy
- Using Eye Movements to Assess Individual Differences in Infancy: Some Methodological Challenges, and Ideas for New Approaches
Sam Wass
- Eye Movements as Window into Brain Development in Typically and Atypically Developing Children
Susan Rivera

(Event 1-015) Paper Session

Grand Salon Room 15 & 18

Thursday, 1:00pm-2:30pm

1-015. Social Cognition I: Infants' Understanding of Who is Naughty or Nice

Chair: *Ross Flom*

- Infants' Understanding of Helping and Hindering: Do Infants Prefer Positive Outcomes or Helpful Outcomes?
Ross Flom
- The Fiskeian infant. Giving and taking actions prime different social relations in 12-month-olds.
Denis Tatone, Gergely Csibra
- Infants have enduring memory of who's nice and who's mean
Arber Tasimi, Karen Wynn
- Once Helpful, Always Helpful: Infants Expect Helping, but not Hindering, Behavior to Persist Across Situations
Shinchieh Duh, Su-hua Wang

(Event 1-016) Paper Symposium

Grand Salon Room 12

Thursday, 1:00pm-2:30pm

1-016. Integrating "micro" and "macro" approaches to sensitivity

Chair: *Rachel R Albert*

- A comparison of "micro" and "macro" approaches to maternal responsiveness and sensitivity
Marc H. Bornstein
- Proximal features of infant vocal learning in social interactions
Melissa Elston, Jennifer Schwade, Michael Goldstein
- A micro approach to studying the appropriateness of caregiver responses to babbling: New findings from a playback paradigm
Rachel R Albert, Jennifer Schwade, Michael Goldstein
- When is a Caregiver's Response to an Infant's Signal Appropriate? Sensitivity from a Cross-Cultural Perspective
Judi Mesman, Andrei Angnged, Faramarz Asanjarani, Selva Chirif Trapnell, Ibrahima Cissé, Tessa Minter, Deniz Salali

THURSDAY

(Event 1-017) Paper Session

Grand Salon Room 9
Thursday, 1:00pm-2:30pm

1-017. Face Processing

Chair: *Elizabeth Ann Simpson*

- Put on a happy face: Developmental changes in infants' exposure to facial expressions of emotion from 3 to 6 months
Nicole A Sugden, Margaret C Moulson
- Face detection, attention capture, and holding
Elizabeth Ann Simpson, Krisztina Jakobsen, Fabrice Damon, Stephen J Suomi, Pier Francesco Ferrari, Annika Paukner
- Brain changes in response to faces in the first year
John E. Richards, Maggie Weinel Guy, Nicki Zieber, Wanze Xie, Jane E Roberts
- Race face preferences in infants : developmental timetable and influence of the kind of picture
Claire HOLVOET, Céline Scola, Thomas Arciszewski, Delphine Picard

(Event 1-018) Paper Symposium

Grand Salon Room 6
Thursday, 1:00pm-2:30pm

1-018. Biological embedding of early adversity: Examination of maternal mental illness, household chaos and neighborhood violence

Chair: *Elysia Davis*

- Household chaos predicts deficits in infant cognitive development
Molly Fox, Curt A. Sandman, Laura Glynn
- Early Life Origins of Leukocyte Telomere Length
Stephanie A Stout, Judith E Carroll, Deborah A Wing, Elysia Davis
- From neighborhood to telomeres: the impact of neighborhood on newborn telomere length and cortisol reactivity
Stacy Drury, Kyle Christopher Esteves, Katherine Theall
- Perinatal exposure to maternal depressive disorder and neonatal stress response: Placental glucocorticoid & serotonergic pathways
Laura Stroud, Stephanie Parade, George Papandonatos, Amy Salisbury, Carmen Marsit

(Event 1-019) Paper Symposium

Grand Salon Room 3
Thursday, 1:00pm-2:30pm

1-019. Language learning and the role of input

Chair: *Melanie Steffi Schreiner*

- How input and processing skills combine to affect child language outcomes
Rochelle Suzanne Newman, Nan Bernstein Ratner
- The impact of speaker variability in daily life on native vowel discrimination in the first year
Christina Bergmann, Alejandrina Cristia
- The impact of mothers' input on infants' word segmentation abilities
Melanie Steffi Schreiner, Nivedita Mani
- Bayesian modeling reveals the early emergence of syntactic abstraction in children's speech
Stephan Meylan, Michael C. Frank, Brandon C. Roy, Roger Levy

(Event 1-020) Paper Symposium

Grand Salon Room 13
Thursday, 1:00pm-2:30pm

1-020. Influences on social-emotional development in the context of parenting and socioeconomic adversity across early childhood

Chair: *Melissa A. Barnett*

- Interaction of parenting quality and child care teacher sensitivity in the development of emotion regulation in early childhood
Jennifer A. Mortensen, Melissa A. Barnett, Katherine Paschall,, Ann Mastergeorge
- Maternal depression and children's problem behaviors during early childhood: Considering the immediacy of parenting responses
Laura Scaramella, Jessica Grande, Brenna Sapotichne, Virginia Hatch, Alexa Austin
- Targeting parental nurturance to buffer the effects of environmental stressors in early childhood
Kaela D. Byers

THURSDAY

(Event 1-021) Paper Symposium

Grand Salon Room 16
Thursday, 1:00pm-2:30pm

1-021. Dynamics of Infant-Parent Play in the Context of Motor Development

Chair: *Daniela Corbetta*

- Child-Led (but not parent-led) joint attention during free-flowing toy play at 9 months predicts vocabulary growth at 12 months
Chen Yu, Linda Smith
- Crawling and walking infants' gaze following: Relations with parent-infant joint engagement
Eric A Walle, Joseph J. Campos, Lukas Lopez, Jaspreet K Johal, Peter Reschke, Jennifer M. Knothe
- Perceptual-Motor Decoupling and Dyadic Object Play: Relations to Motor Development
Gedeon Deak, Kaya de Barbaro, Lucas Chang
- Developmental Changes in Joint Play in Mother-Infant Dyads During Motor Skill Transitions in the First Two Years
Sabrina L Thurman, Daniela Corbetta

Thursday, 1:15pm-2:45pm

(Event 1-022) Poster Symposium

Grand Ballroom Salon C&D_(Exhibit Hall)
Thursday, 1:15pm-2:45pm

1-022. From robots to monkeys to human infants: Integrating different disciplines to understand early motor development

Chair: *Hana D'Souza*

- Modelling infant motor development with robots
James Law, Patricia Shaw, Mark Lee
- Development of reaching and grasping in infant and adult Colombian spider monkeys
Eliza L Nelson, Sara Neuman
- Emergence of activation patterns in prefrontal and motor cortices as infants acquire functional motor skills
Ryota Nishiyori, Beverly Ulrich
- Broad tuning and developmental specialization of the motor system in infants and toddlers with Down syndrome
Hana D'Souza, Jolanta Golan, Andrew Bremner, Annette Karmiloff-Smith

(Event 1-023) Poster Session

Grand Ballroom Salon C&D (Exhibit Hall)
Thursday, 1:15pm-2:45pm

1-023. Poster Session 2

Attention, Memory, and Learning

- 1 A new iPad app of the Early Childhood Attention Battery (ECAB) for profiling early attention deficits
Janette Atkinson, Pauline Kaplicz, Boris Yurkevich, Oliver Braddick
- 2 Gaze-contingent techniques increase infant attention during ERP studies
Estefania Dominguez-Martinez, Eugenio Parise, Claire Monroy, Vincent Reid
- 3 Exploring the influence of tactile cues on the processing of visual targets at 7 months of age
Rhiannon Thomas, Luke Mason, Jannath Begum Ali, Jose Van Velzen, Andrew Bremner
- 4 Robotic-Assisted Locomotion and Executive Function in Non-Crawling Infants: Looking at a Puppet
Nancy de Villiers Rader, Judith Pena-Shaff, Carole W. Dennis, Sharon Stansfield, Helene Larin
- 5 The Role of Parenting Stress in the Association of Parental Bonding and Child Executive Functioning at 24 Months
Evi de Cock, Janneke Maas, Charlotte Vreeswijk, Wim Meeus, Hedwig van Bakel

Cognitive Development

- 6 Speed Changes for Animacy Perception at Birth: the Role of Acceleration and Deceleration
Marco Lunghi, Elisa Di Giorgio, Francesca Simion, Giorgio Vallortigara
- 7 Does type of bilingualism influence infants' visual attention?
Alba Ayneto, Núria Sebastián-Gallés
- 8 Changes in Frontal EEG Coherence across Infancy Predict Cognitive Abilities at Age 3: The Mediating Role of Attentional Control
Margaret Whedon, Nicole B Perry, Susan D Calkins, Martha Ann Bell
- 9 Verbal Ability Mediates the Association between Effortful Control and Executive Functions at 24 Months
Ran Liu, Martha Ann Bell
- 10 Scarce, Abundant or Unique: What do Infants Want?
Matar Ferera, Avi Benozio, Gil Diesendruck
- 11 20-month-old Infants Can Attribute Prosocial and Antisocial Dispositions to Agents
Megan Smith, Rose Scott
- 12 The Temporal Dynamics of Intuitive Statistics in Infants
Marcus Lindskog, Gustaf Gredebäck, Carin Marciszko, Ben Kenward, Mari Fransson

THURSDAY

Communication and Language

- 13 Differences in the influence of raw numbers and adult:child ratios on language input across childcare settings
*Elizabeth Grauer, **Karmen McDivitt**, Melanie Soderstrom*
- 14 Comparing parents' and teachers' reporting of productive vocabulary in toddlers
*Jona Frohlich, **Karmen McDivitt**, Melanie Soderstrom*
- 15 The pointing-vocal coupling progression from 12 to 18 months of the infant's age: a longitudinal study
***Tiziana Aureli**, Mirco Fasolo, Paola Perucchini, Maria Concetta Garito, Maria Spinelli*
- 16 Judgements of communicative intent and emotionality in infant vocalization at 1 and 5 months
***Maya Gratier**, Anne Lacheret, Anne Bobin-Bègue, Emmanuel Devouche, Gisèle Apter*
- 17 Do 14-month-old infants need communicative cues for automatic level-1 perspective-taking?
***Marianna Jartó**, Wiebke Pätzold, Ulf Liszkowski*
- 18 How do infants know that speech can communicate?
***Amy Yamashiro**, Andrea Sorcinelli, athena vouloumanos*
- 19 Is infant-directed speech slower?
***Mengru Han**, Nivja de Jong, René Kager*
- 20 Piraha Motherese
***Peter Gordon**, Daniel L Everett, Erin Kirby, Jean Tang*
- 21 Does rhythmic grouping promote speech segmentation in French and German 7-month-olds
***Nawal ABOUB**, Natalie Boll-Avetisyan, Anjali Bhatara, Barbara Höhle, Thierry Nazzi*
- 22 Infants continue to trust language input even after multiple false testimonies
***Allison Fitch**, Patricia Ganea, Paul Harris, Zsuzsa Kaldy*
- 23 The representation of phonological features in the developing mental lexicon: Eye-tracking evidence from adults and infants
***Nadja Althaus**, Aditi Lahiri, Kim Plunkett*
- 24 Background Television Exposure during Dyadic Play: Negative Relations with Mothers' Speech Quality and Infants' Vocabularies
***Valerie Flynn**, Elise Frank Masur, Janet Olson*
- 25 The flexibility of semantic prediction in young children
***Casey Lew-Williams**, Kenneth Michael Brooks*
- 26 How do toddlers know whom to trust? Associative mechanisms cannot fully explain selective word learning at 18 months
***Elena Luchkina**, David Sobel, James Morgan*
- 27 Individual Differences in Real-Time Language-Processing Ability are Present by 12-Months of Age
***Madeleine Oswald**, Jill Lary*

Developmental Neuroscience

- 28 Neural correlates of face processing associated with risk of autism spectrum disorders in infancy
***Maggie Weinel Guy**, John E. Richards, Bridgette Tonnsen, Jane E Roberts*
- 29 Methodological considerations in the acquisition and analysis of multi-site infant EEG data
*Anastasia Evanoff, Kandice Varcin, **Charles A. Nelson***
- 30 An exploratory eyetracking study on numerical discrimination with 3- to 6-month-old infants
*Iben Ore Nielsen, **Claudia Uller***
- 31 Neonatal Hair Cortisol: Associations With Prenatal Maternal Cortisol and Temperament at Six Months Postpartum
***Darby Saxbe**, Ann B. Tsai, Hannah Lyden, Sarah Stoycos, Geoffrey Corner, Mona Khaled*

Emotional Development

- 32 Culture, Maternal Sensitivity, and Infant Emotional Development: Protective factors of an urban Canadian Aboriginal population?
***Leah Litwin**, Yvonne Bohr*
- 33 Emotion Displays in Picture Books within American Culture
***Jessica Stoltzfus Grady**, Malina Her, Geena Moreno, Katie Perez, Jillian Yelinek*
- 34 Reports of Toddlers' Externalizing Behavior Problems and Protective Factors within the Context of High-risk Family Triads
***Lucy McGoron**, Erika London Bocknek, Hasti Raveau, Michael Lopez, Rachel Ruth Buxbaum*
- 35 Infants' Attention to Emotional Faces: Individual Differences Explained by Maternal and Paternal Depression and Anxiety
***Evin Aktar**, Wieke de Vente, Mirjana Majdandzic, Maartje Raijmakers, Susan Bögels*
- 36 Externalizing Behaviors in Toddlers: Associations with Vocabulary Size and Anger Proneness
***Lyndsay Fairchild**, Sarah Haney, Kelsey Van Boxel, Kathryn Hewitt, Katelyn Monday, Charlene Kucirek, Anne Hungerford*
- 37 Associations between Emotional Reactivity at 4 Months and Temperament at 2 Years
***Penina M. Backer**, Cynthia Stifter*
- 38 Infant anger and fear reactivity differentially predict approach/withdrawal behaviors during toddlerhood
***Kameron J. Moding**, Cynthia Stifter*
- 39 Parental Psychological Predictors of Observed Supportive and Undermining Coparenting during Infancy
***Miranda Gerace**, Lauren E. Altenburger, Sarah J Schoppe-Sullivan, Claire Kamp Dush*
- 40 Does Marital Conflict Predict Infants' Physiological Regulation? A Short-Term Prospective Study
***Chris L. Porter**, William J Dyer*

THURSDAY

- 41 A Longitudinal Twin Study of the Infant Behavior Record as a Novel Measure of Temperament
Megan K McCrary, Gabriel A Casher, Emma B Diaz, Lisabeth F DiLalla
- 42 Infants' Temperament Elicit Different Infant-Adult Interaction from Parents and Educators
Alicia Yun Kwon, Tricia Foster, Claire D. Vallotton, Chamarrita Farkas
- 43 Social Referencing Objects Not in the Room: A Connection to Object Permanence
Nicole Martin, M Grant M Grant Greco, Natalie Tucker, Jade Wilson, Shannon Grossman, Alex Bogle, Sasha Olvera

Motor and Sensorimotor Processes

- 44 Cross-cultural differences in infants' exploratory behaviours: Evidence from three societies
Hilary Aime, Tanya Broesch
- 45 Inhibition of Return After Spontaneous (Un-cued) Covert Attention During Free-Looking at 3 Months
Steven Robertson
- 46 Term and extremely preterm infants' motor learning at 3 months of age
Kayleigh Day, Neil Marlow, Michelle de Haan
- 47 Strategic Locomotion and Carrying in Young Walkers
Aislyn Booth, Serena Sanders, **Emily W Bushnell**
- 48 Effects of Constraint during Infancy on Locomotor Development
Do Kyeong Lee, Lana Karasik, Catherine S. Tamis-LeMonda, Karen E. Adolph

Pediatric Issues, Psychopathology and Developmental Delay

- 49 Lateralization and cerebral hemodynamics at rest in toddlers at risk for language delay
Elizabeth Smith, Afrouz Anderson, Audrey Thurm, Fatima Chowdhry, Amir Gandjbakhche
- 50 Correlates of Parenting Stress in Taiwanese Mothers of Children with autism spectrum disorders
Yi-Ting Chiu, Chin-Chin Wu
- 51 Odds of Developmental Delay at Kindergarten in Preterm Infants as a Function of Gestational Age
Prachi Shah, Blair Richards, Julie Lumeng
- 52 Maternal Distress Tolerance, Intrusive Parenting Behavior and Toddler Externalizing Difficulties
Kreila Elizabeth Cote, Gabriela Lelakowska, Haley Gander, Bianca Hernandez, Jacob Holzman, Victoria Stanley, Taylor Koegel, David Bridgett
- 53 Do Genetic Factors Explain the Links Between Callous-Unemotional, ADHD and Oppositional Defiant Behaviors in Late Infancy?
Megan Flom, Kimberly J Saudino

Perception

- 54 A novel approach to speech perception at birth: On the importance of temporal information
Laurianne Cabrera, Judit Gervain
- 55 Infants at Risk for Autism show elevated unusual sensory behaviors
Hannah Van Etten, Maninderjit Kaur, Sudha Srinivasan, Anjana N. Bhat, Karen Dobkins
- 56 Replicated clusters of 6-month-olds' visual fixation patterns to multimodal familiar and unfamiliar faces
Kate Shepard, Melanie J. Spence
- 57 Age Differences in Infants' Eye-Tracking of Synchronous and Desynchronous Infant-Directed Speech
Mariah L. Fowler, Priscilla Jacob, Melanie J. Spence
- 58 Identifying the sources of primate vocalizations in infancy
Andrea Sorcinelli, Amy Yamashiro, Jennifer Ference, Suzanne Curtin, athena voulosmanos

Social Development

- 59 Maternal trauma symptoms moderate the association between mothers' childhood trauma and their secure base script knowledge
Elizabeth Morgan, Kristina Borneman, Jerrica Pitzen, Alissa C. Huth-Bocks
- 60 Thinking about others' thoughts: Can neural activity in infancy predict development of theory of mind?
Courtney Filippi, YB Choi, Erin Cannon, Nathan Fox, Samuel Thorpe, Amanda Lea Woodward
- 61 Why are you copying me? Functional explanations for neonatal imitation
Siobhan Clare Kennedy, Virginia P Slaughter, Mark G Nielsen
- 62 Oscillatory Correlates of Sensitivity to Attention Mirroring in Young Infants
Holly Rayson, James Bonaiuto, Lynne Murray
- 63 Coordinating Attention in Parent-Infant Social Interactions
Jaspreet K Johal, Eric A Walle
- 64 The development of gender-typed toy preferences in infancy: A meta-analytic review and consideration of key variables
Jillian E. Lauer
- 65 How a variation in the social context prior to imitation task impacts 18 month old infants' subsequent learning and imitation
Ziyon Kim, Monika Knopf
- 66 Exploring 18- to 36-month-olds' behaviour in a naturalistic garden setting
Valentina Fantasia, Claudia Elsner, Aleksandra Włodarczyk, Annie Wertz
- 67 Strange Situation Vocalizations Differ Between Secure and Insecure-Resistant Infants
Emily Barbara Prince, Anne Warlaumont, D. Kimbrough Oller, Sy-Miin Chow, Agata Rozga, Arridhana Ciptadi, James Matthew Rehg, Daniel Messinger
- 68 Social Games during Early Mother-Infant Interactions
Gabriela Markova, Zuzana Hrivikova, Katrin Steinbrück

THURSDAY

Thursday, 2:45pm-4:15pm

(Event 1-024) Paper Symposium

Grand Salon Room 21 & 24

Thursday, 2:45pm-4:15pm

1-024. The use of functional near-infrared spectroscopy in the study of early cognitive development

Chair: *Charles A. Nelson*

- Age-dependence of emotional face processing in infants as measured with functional near-infrared spectroscopy
Katherine L. Perdue, *Julia Cataldo, Alissa Westertlund, Sarah Anne McCormick, Charles A. Nelson*
- Using fNIRS to Characterize Sources of Infant Attention
Lindsey Powell, *Rebecca Saxe*
- Comparing How Statistical Learning Supports Perceptual Expectations in Infants at Low and High Risk for Developmental Delays
Lauren Emberson, *Julie E. Riccio, John E. Richards, Ronnie Guillet, Richard Aslin*
- Social brain responses in infants at risk for compromised development
Sarah Lloyd-Fox

(Event 1-025) Paper Symposium

Grand Salon Room 15 & 18

Thursday, 2:45pm-4:15pm

1-025. How to make words out of actions: Longitudinal links between perception and language

Chair: *Anja Gampe*

- Declarative memory development from 9 months to 16 months and the relation to lexical development
Annett Sundqvist, *Emelie Nordqvist, Felix Koch, Mikael Heimann*
- Relationships between the detection of actions with unexpected outcomes at 9 months and language production at 18 months
Katharina Kaduk, *Marta Bakker, Joshua Juvrud, Gustaf Gredebäck, Gert Westermann, Judith Lunn, Vincent Reid*
- Individual differences in non-linguistic event categorization at 13-15 months predict motion verb comprehension at 27-33 months
Roberta Michnick Golinkoff, *Haruka Konishi, Aimee Stahl, Kathy Hirsh-Pasek*

(Event 1-026) Paper Symposium

Grand Salon Room 12

Thursday, 2:45pm-4:15pm

1-026. Caregiver-infant contingencies: uncovering social mechanisms of development

Chair: *Julie Gros-Louis*

- How Do Infants' Actions Affect When Parents Name Objects?
Lucas Chang, *Gedeon Deak*
- Bidirectional contingencies in infant-adult vocal interactions in daylong home recordings
Gina Pretzer, *Anne S Warlaumont, Eric A Walle*
- The importance of vocal feedback loops for development: specificity to speech-like vocalizations in infant-caregiver interactions
Julie Gros-Louis, *Jennifer Miller*
- Exploring the microstructure of early dyadic coordination and infant visual attention to predict cognitive outcomes
Gina Marie Mason, *Michael Goldstein, Jennifer Schwade*

(Event 1-027) Paper Symposium

Grand Salon Room 9

Thursday, 2:45pm-4:15pm

1-027. Prenatal and Infancy Predictors of Subsequent Obesity: A focus on Biological and Environmental Factors

Chair: *Esther Leerkes*

- Infant intestinal microbiota: Possible link between maternal prenatal stress and offspring obesity risk?
Carolina de Weerth, *Katri Korpela, Willem de Vos, Maartje Zijlmans*
- Maternal Sensitivity and Infant Vagal Tone Moderate Links between Infant Temperament and Infant/Toddler Weight Outcomes
Esther Leerkes, *Susan D Calkins, Nan Zhou*
- Temperament and Parent Use of Instrumental Feeding: Early Pathways to Childhood Obesity
Cynthia Stifter, *Kameron J. Moding*

THURSDAY

(Event 1-028) Paper Session

Grand Salon Room 6
Thursday, 2:45pm-4:15pm

1-028. Social Cognition 2: Theory of Mind and Causal Reasoning in Infancy

Chair: *Anna Waismeyer*

- Can infants learn a new word by "looking though" a speaker's false belief?
Michelle Cheng, *Alan M. Leslie*
- How to tell the front from the back of a novel agent?
Mikolaj Hernik
- Young Children's Observational Causal Learning from Social and Physical Displays
Anna Waismeyer, *Andrew Meltzoff*
- Fourteen-month old infants track multiple objects and object identity when they represent others' beliefs
Dora Kampis, *Agnes Kovacs*

(Event 1-029) Paper Session

Grand Salon Room 3
Thursday, 2:45pm-4:15pm

1-029. New Advances in Motor Development

Chair: *Whitney Graham Cole*

- How Crawling Infants Plan Leg Movements for Navigating Obstacles
Whitney Graham Cole, *Julius Verrel, Ulman Lindenberger, Karen E. Adolph*
- Maternal Narrative of Infants' Latch and Sucking: Validating the Maternal Assessment of Infant Breastfeeding Behaviors Tool
Ruth Lucas, *Jacqueline McGrath, Ana Diallo, Debra Brandon*
- New Insights on Newborn Crawling: a Skateboard Study
Vincent Forma, Marianne Barbu-Roth, David Anderson, Joëlle Provasi, Mélina Martial, Viviane Huet
- Changes in early optic flow experiences across development and culture
Swapnaa Jayaraman, *Rick Gilmore, Florian Raudies*

(Event 1-030) Paper Symposium

Grand Salon Room 13
Thursday, 2:45pm-4:15pm

1-030. Understanding Shyness in Infancy

Chair: *Milica Nikolić*

- The Contexts of Positive Shyness from 4 to 10 Months of Age
Alexandra Miskou, *Vassiliki Tsourtou, Vasudevi Reddy*
- Observed Child shyness and Maternal Beliefs about Protection and Intrusive Strategies as Predictors of Maladaptive Parenting
Julie Premo, *Elizabeth Kiel*
- Stability of Expressions of Shyness from Four Months to Four Years and the Association with Temperament and Social Anxiety
Cristina Colonesi, *Milica Nikolić, Susan Bögels*
- Positive and Negative Aspects of Shyness and Behavioral Inhibition in Infancy
Milica Nikolić, *Cristina Colonesi, Wieke de Vente, Mirjana Majdandzic, Susan Bögels*

(Event 1-031) Paper Session

Grand Salon Room 16
Thursday, 2:45pm-4:15pm

1-031. Maternal Sensitivity to Infants' Social and Emotional Cues

Chair: *Ashley Groh*

- Joint Contributions of Child Negative Affect and Maternal Behavior to Child Engagement: Analyses of Within-Person Fluctuations
Xi Chen, *Helen Emery, Nancy McElwain*
 - Salivary Alpha-Amylase Reactivity to Arm Restraint in 6-Month-Old Infants: Links to Maternal Caregiving
Maria Lauer, *Susan Woodhouse*
 - Mothers' Neural Processing of Infant Emotion Cues: The Role of Secure Base Script Knowledge
Ashley Groh
 - The Role of Oxytocin in Early Mother-Infant Interactions: Examining Variations in Maternal Affect Attunement
Gabriela Markova, *Barbora Siposova*
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THURSDAY

Thursday, 3:00pm-4:30pm

(Event 1-032) Poster Symposium

Grand Ballroom Salon C&D_(Exhibit Hall)

Thursday, 3:00pm-4:30pm

1-032. Looking to learn: How infants integrate attention, working memory and associative processes to learn novel words

Chair: *Larissa K Samuelson*

- What's the Relevant Input for Toddler Word-Referent Learning? Evidence from Head Cameras and Simulations
Sumarga H Suanda, *Linda Smith, Chen Yu*
- Understanding the Developmental Trajectory of Cross-situational Word Learning
Stanka A. Fitneva, *Morten H Christiansen*
- Beyond associations or hypotheses: A dynamic, autonomous model of cross-situational learning
Larissa K Samuelson, *Laura Colosimo, John P Spencer*
- Learning words for categories: a gaze-contingent eye tracking paradigm with 12-month-olds
Nadja Althaus, *Kim Plunkett*

(Event 1-033) Poster Session

Grand Ballroom Salon C&D (Exhibit Hall)

Thursday, 3:00pm-4:30pm

1-033. Poster Session 3

Attention, Memory, and Learning

- 1 Attentional Control in Infancy Predicts Explicit Memory Performance at 36 Months
Tashauna L. Blankenship, *Martha Ann Bell*
- 2 Factors influencing action perception in infancy
Felix Koch, *Annett Sundqvist, Jane Herbert, Tomas Tjus, Mikael Heimann*
- 3 Familiarity Constraints on Infants' Visual Statistical Learning: Infants Learn Patterns of Faces, but not Shapes
Lauren Slone, *Hojin Kim, Scott Johnson*
- 4 Visual statistical learning : What do 8-month-old infants learn?
Estibaliz San Anton, *Arnaud Destrebecqz, Julie Bertels*

Cognitive Development

- 5 Visual statistical learning in infants at high risk for ASD: An electrophysiological analysis
Andrew Jonathan Sanders, *Andrew Marin, Shafali Jeste, Scott Johnson*
- 6 Inborn Predispositions to Social Stimuli strikingly differed between Newborns at High-risk for Autism and Newborns at low-risk
Elisa Di Giorgio, *Orsola Rosa Salva, Elisa Frasnelli, Maria Luisa Scattoni, Maria Puopolo, Francesca Simion, Giorgio Vallortigara*

- 7 Linguistic distance and semantic priming in 24- to 27-month-old bilingual children
Caroline Floccia, *Rosa Kwok Wan, Claire Delle Luche, Janette Chow, Klara Horvath, Allegra Cattani, Jeremy Goslin, Laurence White, Kim Plunkett*
- 8 Neural signatures of addition and subtraction in 6-month-old infants
Yi Mou, *Charline Simon, Daniel Hyde*
- 9 Developing a reflective mind: behavioral and neural indices of metacognition in preverbal infants
Louise Goupil, *Sid Kouider*
- 10 The mobile-paradigm as measure of infants' sense of agency? Insights from babybot simulations
Lorijn Zaadnoordijk, *Maria Otworowska, Johan Kwisthout, Sabine Hunnius, Iris van Rooij*
- 11 Approximate Number System Precision in 4-month-old Infants
Jinjing (Jenny) Wang, *Lisa Feigenson*
- 12 Functional interactions among brain regions supporting word learning in newborns
Silvia BENAVIDES-VARELA, *Roma Siugzdaite, David M Gómez, Francesco Macagno, Luigi Cattarossi, Jacques Mehler*
- 13 To use or not to use, that is the question: Does active tool use hinder knowledge transfer?
Sabrina Bechtel-Kuehne, *Sabina Pauen*

Communication and Language

- 14 The trusting Twos: Evidence for the emergence of a strong trust in communication during toddlerhood.
Olivier Mascaro, *Agnes Kovacs*
- 15 Semantic-phonologic mediated priming in 24- and 30-month-old infants
Armando Quetzalcóatl Angulo-Chavira, **Natalia Arias-Trejo**
- 16 Communicating to Learn: Infants' Pointing Gestures Facilitate Fast Mapping
Kelsey Lucca, *Makeba P Wilbourn*
- 17 Look Who's Talking: Considering Complexity in Preverbal Communication
Brenda Salley, *Nancy Brady*
- 18 Chasing, causality and goals: Conceptual understanding at 9 months and its relationship to later language use
Samantha Durrant, *Caroline Rowland, Franklin Chang, Andrew Jessop, Amy Bidgood, Michelle Peter*
- 19 Infants discriminate two types of speech about an object: Labeling an object and expressing an attitude toward the object
Etsuko Haryu, *Toshinori Kaneshige, Mai Hamana, Shinnosuke Ikeda, Hisako Yamamoto*
- 20 It's Comprehension and Production! The Efficacy of Canonical Analysis for Predicting Language Outcomes
Erin Smolak, *Daniel Barlam, Pascal Zesiger, Diane Poulin Dubois, Margaret Friend*

THURSDAY

- 21 Social origins of infant pointing
Johanna Nuria Ruether, *Ulf Liszkowski*
- 22 How do infants use nonadjacent dependencies during language development?
Rebecca Louise Ann Frost, *Michelle Peter, Samantha Durrant, Amy Bidgood, Caroline Rowland, Padraic Monaghan, Morten H Christiansen*
- 23 Accessing Infants' Early Verb Comprehension
Iris Nomikou, *Katharina J. Rohlfing, Phillip Cimiano, Jean Mandler*
- 24 How infants link nonce sentences to scenes with objects and predicates
Angelica Buerkin-Salgado, *Daniel Swingley*
- 25 Does a Domain-General Sequence Learning Ability Support Language Development?
Katherine Wolfert, *Jill Lany*
- 26 Language skills of 3-year-old monolingual French-speaking children: Identifying early predictors
Tamara Patrucco-Nanchen, *Laura Alaria, Céline Béguin, Diane Poulin-Dubois, Margaret Friend, Pascal Zesiger*
- 27 Early-learned words sound like what they mean
Lynn K Perry, *Marcus Perlman, Bodo Winter, Gary Lupyan, Dominic Massaro*
- 28 9- and 12-month-olds Perceive Names but not Sentences in a Conversational Multi-Talker Background
Dana E Bernier, *Melanie Soderstrom*
- Developmental Neuroscience**
- 29 The relationship between inter-hemispheric resting-state connections and vocabulary development in the first year of life
Monika Molnar, *Borja Blanco, Manuel Carreiras, Cesar Caballero*
- 30 Maternal Pre-Pregnancy Weight and Telomere Length
Kyle Christopher Esteves, *Steven Lamm, Paige Deichmann, Cecilia Gambala, Katherine Theall, Stacy Drury*
- 31 Title: Sex and Race Differences in Infant Stress Responsivity
Andrew Dismukes, *Elizabeth Shirtcliff, Katherine Theall, Livia Merrill, Virginia Hatch, Stacy Drury*
- 32 Developmental Trajectory of Cortisol Reactivity in Typically Developing Infants at 4 and 12 Months of Age
Natasha Topolski, *Andrew Dismukes, Livia Merrill, Katherine Theall, Stacy Drury*
- Emotional Development**
- 33 Multimodal Babies: Investigating Infant-Parent Socio-Emotional Dynamics During a Surprising Toy Exposure
Shadi Sibani, *Alanna Singer, Jean-Paul Boudreau*
- 34 Timing and Trajectories of Maternal Depression during Pregnancy Relate to Offspring Emotional Reactivity
Danielle Swales, *Anne Winiarski, Yunsoo Park, Patricia Brennan*
- 35 Maternal affect attunement and Respiratory Sinus Arrhythmia (RSA): Psychophysiological correlates of mother-infant interaction
Heidi Chng
- 36 Rhythms and Patterns of Non-nutritive Sucking of 3 to 7 Month-Old Infants Measured by a Digital Pacifier
Sumiko Kuroishi, *Kentaro Ishii, Yoshimi Osugi, Kazuo Hiraki, Masa Ogata, Emi Itako, Nana Tsunoda*
- 37 Links Between Early Parenting and Trajectories of Infant Emotion Regulation as a Function of Maternal Risk
Amanda L Nowak, *Julia M. Braungart-Rieker, Jennifer Burke LeFever*
- 38 To Engage or Disengage in an Infant Distress Situation? Preschoolers' Dispositions in Empathy and Social Inhibition Tell a Story
Michelle Elaine Grisham Hanks, Hung-Chu Lin, Valanne MacGyvers, Yang Yang, Rebecca Tacke, Demi Leleux, Kylie Garber, Dylan Harrell, Tayler Richard
- 39 Maternal prenatal stress predict infant attention to faces at 8 months - eye-tracking findings from the FinnBrain
Eeva-Leena Kataja, *Janina Nurminen, Riikka Korja, Linnea Karlsson, Henri Pesonen, Tuomo Häikiö, Jukka Hyönä, Christine Parsons, Hasse Karlsson*
- 40 Shyness in early infancy: Approach-avoidance conflicts, temperaments and hypersensitivity to eyes
Yoshi-Taka Matsuda
- 41 Pre- and Postnatal Depressive Symptoms in Relation to Trajectories of Parenting
Dianna Tran, *Julia M. Braungart-Rieker, Jennifer Burke LeFever*
- 42 Maternal substance-related disorders and infant attachment security: A meta-analysis
Jennifer Barnes
- 43 RSA stability across infancy: Relations to mothers' perinatal depression and breastfeeding
Katherine Alexandra Cullum, *Meeka Saragina Halperin, Sherryl Hope Goodman*
- Motor and Sensorimotor Processes**
- 44 Where is infant visual attention directed in a situation of object exchange with a social partner?
Rebecca Wiener, *Sabrina L Thurman, Daniela Corbetta*
- 45 Video Magnification Reveals Postural Dynamics in Sitting in Typical and Atypical Development During Phases of Focused Attention
Sarah E. Berger, *Regina Harbourne, Julie Sonsini, Swati Surkar, Alexandra Schriefer, Fatima Arnan, Carmen Gualpa*
- 46 Navigation in 9-Month-Old Infants' Reach to Grasp
Clay Mash, *Marc H. Bornstein*
- 47 Hand Over Foot: Exploring the Relationship Between Walking Experience and Reaching Skill During Infancy
Jill A. Dosso, Alanna Singer, Sandra V. Herrera, Jean-Paul Boudreau

THURSDAY

- 48 Hand Preference is Related to Hand Skill at 2 Years
Lauren Hartstein, Vishakha Agrawal, Eliza L Nelson, Neil Berthier
- 49 Learning to walk: Identifying independent domains of gait in newly walking infants
Beatrix Vereijken, Whitney Graham Cole, Do Kyeong Lee, Karen E. Adolph

Pediatric Issues, Psychopathology and Developmental Delay

- 50 Embedded professional development in early care: Supporting vulnerable children's early learning and family engagement over time
Elisa Vele-Tabaddor, Catherine Ayoub, Adam Von Ende, Nick Wechsler, Joshua Sparrow
- 51 Too Much or Too Little of a Good Thing? Activity Level and Mental Development in Late Infancy
Madeleine F Cohen, Megan Flom, Kimberly J Saudino
- 52 Low Birth Weight, Parenting in Infancy, and Trajectories of Children's Sleep Problems Predict Attention and Aggression Problems
Nicholas Wagner, Cathi Propper, Marie Camerota, Noa Gueron-Sela
- 53 Early prediction of emotional and behavioral disturbance in at-risk infants: A longitudinal study of potential risk factors
Noam Binnoon-Erez, Michelle Rodrigues, Jennifer Jenkins
- 54 "Put yourself in my shoes!" Older sibling perspective-taking is associated with lower internalizing problems in preschool children
Michelle Rodrigues, Noam Binnoon-Erez, Jennifer Jenkins
- 55 Electronic Cigarette Use Among Pregnant Women: Prevalence, Perceptions, and Implications for Infant Birth Weight
Marie Camerota, Nicholas Wagner, Cathi Propper

Perception

- 56 Musical experience and preference of timing expression in a song by 6- to 7-month-old infants
Takayuki Nakata, Susan E. Marsh-Rollo, Laurel Trainor
- 57 Newborns' sensitivity to birdsongs
Bahia GUELLAI, Arlette Streri, Maya Gratier, Laurent Nagle
- 58 Darker objects are noisier: Infants look longer towards black balls than white balls only when an impact sound is heard
Hannah Wilson, Peter Walker, Gavin Bremner

Social Development

- 59 The effect of prenatal reflective functioning on the development of infant physical aggression
Hanneke Smaling, Stephan Huijbregts, Kristiaan van der Heijden, Dale Hay, Stephanie van Goozen, Hanna Swaab

- 60 Elementary motion cues to animacy perception: filial preferences for accelerating objects in naive chicks (*Gallus gallus*)
Orsola Rosa Salva, Elena Lorenzi, Massimo Grassi, Regolin Lucia, Giorgio Vallortigara
- 61 Infant Eye Gaze in a Pedagogical Learning Situation
Johannes Bätz, Sebastian Wahl, Vesna Marinovic, Birgit Träuble
- 62 Spontaneous turn-taking drumming in an infant-parent interaction: a pilot study
Hiroshi Fukuyama, Masaharu Kato
- 63 Distressed Yet Empathically Sensitive: The Organization of Preschoolers' Behavioral Responses to Infant Crying
Michelle Elaine Grisham Hanks, Hung-Chu Lin, Valanne MacGyvers, Yang Yang, Rebecca Tacke, Demi Leleux, Kylie Garber, Dylan Harrell, Tayler Richard
- 64 The contribution of music to the effect of interpersonal synchrony on infant helping
Laura Cirelli, Stephanie Wan, Christina Spinelli, Laurel Trainor
- 65 The Development of Infant Intention Understanding: Contributions of Joint Attention and Motor Experience
Kelsey Ann Moty, Wyntre Stout, Amanda Brandone
- 66 Maternal Influences on Infant Weight Gain: Feeding Style at 3-months Predicts Parenting at 3-years
John Worobey
- 67 Associations between Early Maternal Sensitivity and Infant Sleep
Émilie Tétreault, Andrée-Anne Bouvette-Turcot, Annie Bernier
- 68 Impact of Oxytocin and Maternal Sensitivity on Infant Social Gaze at Four Months
Isabelle Mueller, Gabriela Markova
- 69 Maternal Intrusiveness as a Moderator of the Relation of Infant Negative Affect to Toddler Effortful Control
Jillian Troxler, Cynthia L. Smith, Anjolie Diaz, Susan D Calkins, Martha Ann Bell

THURSDAY

Thursday, 4:30pm-6:00pm

(Event 1-034) Paper Session

Grand Salon Room 12
Thursday, 4:30pm-6:00pm

1-034. Linguistic Input Across SES, Culture, and Register

Chair: *Rochelle Suzanne Newman*

- Socio-economic Differences in Young Argentinean Children's Language Environments
Celia Rosemberg, Alejandra Menti, Alejandra Stein, Florencia Alam, Maia Migdalek, Gladys Ojea, Laia Fibla, Alejandrina Cristia
- Effect of the relationship between target and masker sex on infants' recognition of speech
Rochelle Suzanne Newman, Giovanna Morini
- Rhythm and Modes of Maternal Vocal Stimulation to 3-Month-Old Infants: A Comparison across Cultures and Immigration Experience
Samuele Zanoni, Manuela Lavelli, Cecilia Carra, Heidi Keller
- Child-Directed Speech is not Intrinsically Easier to Segment than Adult-Directed Speech
Alejandrina Cristia, Melanie Soderstrom, Robert Daland, Amanda Saksida, Mark Johnson, Roland THIOLLIERE, Xuan Nga Cao, Nan Bernstein Ratner, Emmanuel Dupoux

(Event 1-035) Paper Symposium

Grand Salon Room 9
Thursday, 4:30pm-6:00pm

1-035. The many faces of experience: The roles of early experience and individual factors in the development of prosocial behaviour

Chair: *Annette Henderson*

- An intervention designed to increase parental empathy enhances infants' prosociality
Miranda J. Sitch, Lucretia L Fairchild, Jessica Sommerville
- Reciprocal play fuels the social construction of early altruism
Rodolfo Cortes Barragan, Carol S Dweck
- Making smart social judgments quickly matters: The relationship between Goal Prediction Speed and social competence
Sheila Krogh-Jespersen, Zoe Liberman, Amanda Lea Woodward
- The role of maternal scaffolding during task assignment in the early ontogeny of helping behavior: A cross-cultural perspective
Moritz Köster, Shoji Itakura, Joscha Kärtner

Thursday, 4:45pm-6:00pm

(Event 1-036) Invited Speaker

Grand Salon Room 21 & 24
Thursday, 4:45pm-6:00pm

1-036. Human Amygdala-PFC Circuit Development & the Role of Caregiving

Chair: *Vanessa LoBue*

Speaker: *Nim Tottenham*

Description: Strong evidence indicates that reciprocal connections between the amygdala and medial prefrontal cortex (mPFC) support fundamental aspects of emotional behavior in adulthood. However, this circuitry is slow to develop in humans. In this talk, I will present developmental functional magnetic resonance imaging data describing age-related changes in amygdala-mPFC circuitry and how it relates to emergent emotional behaviors. The argument will be made that the development of this circuitry in humans is intimately associated with caregiving, such that parents exert significant and enduring neural modulation during development. I will focus on both typical development as well as development following caregiver deprivation (e.g., orphanage care in infancy), showing that early life stress may accelerate development of this circuitry. The findings presented are highly consistent with the animal literature showing both large changes in amygdala-mPFC circuitry throughout development, as well as the large influence of parental care in shaping this neural circuitry. These age-related changes will be discussed in terms of potential developmental sensitive periods for environmental influence.

Biography: Nim Tottenham, Ph.D. is an associate professor of Psychology at Columbia University, who examines human limbic-cortical development and the role of early life experiences. She received her graduate and postdoctoral training at the University of Minnesota and the Sackler Institute for Developmental Psychobiology at Cornell. She is a recipient of the NIMH BRAINS Award and the APA Distinguished Scientific Award for Early Career Contribution to Psychology.

THURSDAY

(Event 1-037) Invited Speaker

Grand Salon Room 15 & 18
Thursday, 4:45pm-6:00pm

1-037. Nutrition and Early Child Development: The First 1000 Days

Chair: *John Colombo*
Speaker: *Maureen Black*

Description: The first 1000 days (conception to age 24 months) represent a period where nutrition has a major influence on children's early development. This presentation is divided into six phases. Phase 1 examines how specific nutrients are linked to specific aspects of brain development. Phase 2 discusses measurement strategies related to nutrition and growth during infancy and toddlerhood. Phase 3 addresses the consequences of nutritional deficiencies during the first 1000 days, with specific attention to the timing, dose, and chronicity of deficiencies. This phase relies primarily on data from low-and middle-income countries where rates of undernutrition are high. It includes the long term consequences of early nutritional deficiencies, specifically stunting, on children's development, school performance, and adult health and well-being. Phase 4 addresses the consequences of over-nutrition (obesity), relying primarily on data from high income countries. Phase 5 addresses early feeding behavior and relations among parent behavior, infant feeding behavior, and early child development. Phase 6 reviews recent evidence on interventions to promote nutritional adequacy, beginning prior to conception and extending through the first 1000 days.

Biography: Maureen Black, Ph.D. is the John A. Scholl MD and Mary Louise Scholl MD Endowed Professor in the Department of Pediatrics, University of Maryland School of Medicine. She is a pediatric psychologist, director of the Growth and Nutrition Clinic, and an adjunct professor in the Center for Human Nutrition, Johns Hopkins Bloomberg School of Public Health.

Thursday, 6:00pm-7:30pm

(Event 1-038) Reception

Chemin Royale & Exhibit Hall
Thursday, 6:00pm-7:30pm

1-038. Welcome Reception

All attendees are invited to attend this event. This reception is in conjunction with Poster Session 4, so come and enjoy refreshments while viewing some exciting research. Here's an opportunity to meet people from other universities or countries who may share your research interests. Cash bars will be available.

(Event 1-039) Poster Symposium

Grand Ballroom Salon C&D_(Exhibit Hall)
Thursday, 6:00pm-7:30pm

1-039. Trajectories of maternal pre- and postnatal depression: Associations with child temperament, cortisol reactivity, and attention

Chair: *Ashley Wazana*

- Maternal perinatal depressive symptom trajectories: Association with 12-month-old infant stress response
Meaghan McCallum, Sheryl Hope Goodman, Sona Dimidjian, Boulder Bob Gallop
- Trajectories of maternal depression and childhood dysregulation, in association with 5-HTTLPR and in utero exposure to SSRIs
Vanessa Babineau, Cathryn Gordon Green, Alexis Jolicoeur-Martineau, Klaus Minde, Martin St-André, Normand Carrey, Leslie Atkinson, James L. Kennedy, John Lydon, Hélène Gaudreau, Robert Levitan, Michael J Meaney, Ashley Wazana
- Early contributors of child negative emotionality: Evidence from the 3-way interaction of genotype, pre and postnatal depression
Cathryn Gordon Green, Vanessa Babineau, Alexis Jolicoeur-Martineau, Andrée-Anne Bouvette-Turcot, Klaus Minde, Roberto Sassi, Martin St-André, Normand Carrey, Leslie Atkinson, James L. Kennedy, John Lydon, Hélène Gaudreau, Jacob Burack, Robert Levitan, Michael J Meaney, Ashley Wazana
- How early maternal behavior interacts with prenatal depression and DAT1 genotype to predict attention competence from 18-24 months
Ashley Wazana, Vanessa Babineau, Cathryn Gordon Green, Alexis Jolicoeur-Martineau, Justin Graffi, Klaus Minde, Leslie Atkinson, Meir Steiner, Alison Fleming, Hélène Gaudreau, Robert Levitan, James L. Kennedy, Michael J Meaney

(Event 1-040) Poster Session

Grand Ballroom Salon C&D (Exhibit Hall)
Thursday, 6:00pm-7:30pm

1-040. Poster Session 4 (in conjunction with the Welcome Reception)

Attention, Memory, and Learning

- 1 The Relation Between Attention Orienting in Infancy and Executive Control in Early Childhood
Kelley Elizabeth Gunther, Julie Markant, Rachel Martino, Dima Amso
- 2 Effortful Control Moderates the Link between Negative Affect and Vigilance to Threat only after the First Year of Life
Xiaoxue Fu, Kayla M Brown, Vanessa LoBue, Kristin Buss, Koraly Perez-Edgar

THURSDAY

- 3 Visual Finite State Grammar Learning in 5- and 12-month-old Infants

Lauren Slone, Scott Johnson

- 4 What Language Matters for Selective Imitation

Chi-Tai Huang, **Yueh-Ju Yang**, Feng-Ming Tsao

Cognitive Development

- 5 Visual tracking in very preterm infants at 4 months corrected age predicts neurodevelopment at 3 years of age

Claes von Hofsten, Ylva Fredriksson Kaul, Kerstin Rosander, Katarina Strand Brodd, Gerd Holmström, Alexander Kaul, Birgitta Böhm, Lena Hellström-Westas

- 6 Intermodal activation of a neural representation of “humans” in preverbal infants

Stefanie Peykarjou, Julia Wissner, Sabina Pauen

- 7 Predicting toddler’s information processing capacities from parenting behavior

Daniel Mann, Manja Attig, Anja Sommer, Jan-David Freund, Sabine Weinert

- 8 Language as a marker guiding prosocial behavior: evidence in preverbal infants and preschoolers

Bahia Guellai, Eszter Somogyi, **Rana Esseily**

- 9 Asian 2.5-year-olds Display In-group Favoritism when Dividing Resources

Peipei Setoh, **Lijun Zhang**, Stephanie M. Sloane

- 10 Child-Directed Interactions and the Effects on Object-Action Learning: An observational study of US and Mayan Children

Elizabeth C Joyce, Nicole Burke, Laura Shneidman, Amanda Lea Woodward

- 11 Infant Social Attention and Cognition of Goal-Directed Actions Relates to Preschool Social Behavior and Theory of Mind

Aditi V. Deodhar, Bennett Bertenthal

- 12 Preschoolers Deny Being Able to Perceive or Address Others Outside of Mutual Engagement

Henrike Moll, **Allie Khalulyan**

- 13 Infants apply the principle of relational consistency to individuate the number of agents involved in dyadic social relations

Barbara Pomiechowska, Denis Tatone, Gergely Csibra

- 14 8-month-olds Attribute, and Expect Others to Attribute, Strong Preferences to Agents

Lin Bian, Renee Baillargeon

Communication and Language

- 15 Developmental Delays and Autism Symptoms in Toddlers Screening for Language Delay

Laurie Swineford, **Audrey Thurm**, Stacy Shumway Manwaring

- 16 Prediction of Communication Risk Before 12 months with the ISCBS: Preliminary Group Outcomes at 3 Years

Cynthia Cress, Teresa Parrill, Janice Swanson, Maggie Steinhauser, Anna Fichtl, Alexis Reinert, Sydney Rhoades, Emma Fleisher, Nicole Forbes, Alayna Stokes, Sydnee Brehmer, Kayla West, Maddy Wilson, Amy Olson

- 17 Direct and Indirect Measures of Translation Equivalents in Bilingual Toddlers

Jacqueline Legacy, Cristina Crivello, Jessica Reider, Olivia Kuzyk, Margaret Friend, Pascal Zesiger, Diane Poulin Dubois

- 18 Audiovisual matching abilities of 4.5-month-old monolingual and bilingual infants

Jovana Pejovic, Monika Molnar, Eiling Yee

- 19 Phoneme categorization depends on production abilities during the first year of life

Marjorie Dole, Hélène Loevenbruck, Olivier Pascalis, Jean-Luc Schwartz, Anne Vilain

- 20 Do Children in the Null Subject Stage Understand Null Subject Sentences?

Angela Lee, Yuriko Oshima-Takane, Yuhko Kayama, Michelle Ma, Fred Genesee

- 21 Semantic density influences real-time lexical recognition in 18-month-olds

Arielle Borovsky, Courtney Yehnert, Ryan Peters

- 22 Does caregiving experience reorganize women’s perceptions of infant vocalizations?

Emily Lindberg, Lillian Molik, Haley Roenneburg, **Rachel R Albert**

- 23 ‘Daddy, talk!’: The acoustic and affective characteristics of fathers’ infant-directed speech

Karen Mattock, Scott O’Loughlin

- 24 Everyday Opportunities for Language Learning

Yana Kuchirko

- 25 Increasing Parents’ Use of Intervention Strategies to Bridge the Word Gap and Promote the Communication of Infants and Toddlers

Dale Walker, Kathryn M. Bigelow, Constance Beecher, Jane Atwater

- 26 Is the Relation between Early Joint Attention and Later Theory of Mind Explained by Language and Inhibitory Control?

Camila Soares de Abreu, **Cláudia Cardoso-Martins**, Catharine Echols

- 27 Stress clash avoidance by 6- to 7-month-olds

Natalie Boll-Avetisyan, Jürgen Weissenborn, Barbara Höhle

- 28 A longitudinal study on the emergence of comprehension in infancy

Juwairia Sohail, Elizabeth K. Johnson

THURSDAY

- 29 The effect of age on the composition of children's first 10 words: Evidence from the UK-CDI
Caroline Rowland, *Katie Alcock, Kerstin Meints, Janine Just, Victoria Brelsford*

Developmental Neuroscience

- 30 Sex Differences in Attention Behavior and Attention-Related EEG at 5 and 10 Months
Cassandra Mayve Eng, *Susan D Calkins, Martha Ann Bell*
- 31 Role of temperament in the link between infants' ERP markers of attention and emotional responses to other baby's cry and laughter
Maria Magdalena Crespo-Llado, *Elena Geangu*
- 32 Neurodevelopmental and Emotional Interactive Patterns in Breastfeeding Dyads
Nancy Aaron Jones, *Aliza Sloan, Melannie Platt, Krystal Mize*
- 33 Dyadic Flexibility Mediates the Relation between Parent Conflict and Infant Vagal Regulation during the FFSF.
Alex Busuito, *Ginger Moore*
- 34 Enhanced neural processing of goal-directed actions after active training in 4-month-old infants.
Marta Bakker, *Jessica Sommerville, Gustaf Gredebäck*

Emotional Development

- 35 Teachers' Attachment and Dispositional Mindfulness: Links to Developmentally Supportive Practices with Infants and Toddlers
Holly E. Brophy-Herb, *Claire D. Vallotton, Amy Williamson, Julia Torquati, Gina Cook, Kalli Decker*
- 36 Maternal Self-Efficacy and Hostility during the Perinatal Period as Predictors of Perceptions of Infant Emotion
Gloria Romero, *Katherine Guyon-Harris, Emily Gutman, Alissa C. Huth-Bocks*
- 37 The Expression and Regulation of Positive Affect in Predicting Externalizing Behavior Problems
Jessica Dollar, *Nicole B Perry, Susan D Calkins, Susan P Keane, Lilly Shanahan, Marion O'Brien*
- 38 Breastfeeding Predicts Change in Infant Temperament from 3 to 6 Months
Kelsey M Quigley, *Ginger Moore, Cathi Propper, Barbara D Goldman*
- 39 Parents' reactions to toddlers' emotions mediate relation between parent emotion regulation difficulty and child behavior problems
Danielle Dalimonte-Merckling, *Holly E. Brophy-Herb*
- 40 Individual differences in infant stress reactivity and stress regulation: quantitative analysis of behavioral responses and HR.
Naoto Yamane, *Miki Takahashi, Reiko Mazuka*

- 41 Relations between infant temperament and attentional allocation to emotional expressions in faces: A longitudinal study
Carin Marciszko, *Mari Fransson, Marcus Lindskog, Ben Kenward, Gustaf Gredebäck*
- 42 Prenatal screening in home visiting program linked to reduction in risk in postnatal of the home environment
Leanne Whiteside-Mansell, Lorraine McKelvey, Shalese Fitzgerald, Danielle Thomas
- 43 Good night, good morning: How sleep quality affects infants' morning mood
Caspar Addyman, *Frank Wiesemann*
- 44 Infant self-regulation and mother-infant interaction on mother-infant attachment in healthy preterm and full-term infants
Marina Fuertes, *Anabela Faria, Filipe Bras pinto, Joana Lopes, Pedro Lopes dos Santos*
- 45 Temporal Dynamics in Infants' and their Parents' Co-Regulation Processes
Sanne Geeraerts, *Jorg Huijding, Nicolette Munsters, Marissa Helmich, Maja Deković*

Motor and Sensorimotor Processes

- 46 Response to Changing Physical Contingencies in Infants at High & Low Risk for Autism Spectrum Disorder at 6 and 10 months
Jessie Bolz Northrup, *Klaus Libertus, Jana Marie Iverson*
- 47 A Handy Guide to Measuring Handedness in 36-month-olds with and without Autism Spectrum Disorder
Kayla Finch, *Meagan Ruth Talbott, Charles A. Nelson, Helen Tager-Flusberg*
- 48 From grasping tools to functional actions in infants at high-risk for Autism Spectrum Disorders
Laura Sparaci, *Jessie Bolz Northrup, Olga Capirci, Jana Marie Iverson*
- 49 Learning to cruise: The effects of garments on gait parameters
Jennifer Sansom, *Kelsey Roberts, Kara Dornbos, Margo Recla*
- 50 Exploring the Relationship Between Infant Motor Development and Sleep Using Times Series and Point Process Models
Sarah E. Berger, *Calandra Tate Moore*

Pediatric Issues, Psychopathology and Developmental Delay

- 51 Prenatal Glucocorticoid Exposure Moderates Relations between Maternal Weight and Offspring Growth through Childhood
Jared Vineyard, *Jennifer Hambleton, Nicki Aubuchon-Endsley*
- 52 Associations between Maternal Prenatal Stress and Birth Outcomes: a Pilot Study with Hair Cortisol Assessments in Argentina
Christiane Passen, Roseriet Beijers, Carolina de Weerth

THURSDAY

- 53 Early intervention for children with hearing loss: Parents' reports of experiences and perceptions of strengths and opportunities
Kalli Decker, *Tricia Foster, Amy Foote*
- 54 Trends in maternal leave, breastfeeding, and child development in a very low-income sample
Samantha A Melvin, *Julissa Veras, Mayra Lemus, Natalia Rojas, Greg J Duncan, Katherine Magnuson, Lisa Gennetian, Hirokazu Yoshikawa, Kimberly G Noble*
- 55 Enhancing early socioemotional development through promotion of reading aloud and play in pediatric health care
Adriana Weisleder, *Carolyn Brockmeyer Cates, Samantha Berkule Johnson, Caitlin Canfield, Anne Seery, Caroline Raak, Maya Matalon, Aida Custode, Alan Mendelsohn*
- 56 People's attitudes toward breastfeeding in public: Individual variability
Valanne MacGyvers, *Taylor Richard, Dylan Harrell, Audra Jensen, Michelle Elaine Grisham Hanks, Kylie Garber, Rebecca Tacke, Yang Yang, Hung-Chu Lin*
- 57 18-Month-Olds trust pollyannas
Diane Poulin-Dubois, *Jessica Reider, Olivia Kuzyk, Sabrina Chiarella*
- 58 Infants' preference for a responsive caregiver character in a choice paradigm is related to gender but not to attachment security
Szilvia Biro, *Lenneke Alink, Marinus van IJzendoorn, Marian Bakermans-Kranenburg*
- 59 Mother-infant attachment security and the quality of their interactions in the prediction of children's psychosocial functioning
Marie-Soleil Sirois, *Annie Bernier*
- 60 Toddlers' behavioural and emotional reactions to prosocial and antisocial others
Julia W. Van de Vondervoort, *Lara Aknin, Tamar Kushnir, Kiley Hamlin*
- 61 The link between infants' performance on sociomoral evaluation tasks and parent-report preschool social functioning
Enda Tan, *Amori Yee Mikami, Kiley Hamlin*

Perception

- 57 Categorical Perception of Species in Infancy
Hannah White, *Alyson Hock, Rachel Jubran, Alison Rae Heck, Ramesh S. Bhatt*
- 58 Prolonged development of language-specific voicing boundaries: comparison of Korean and Japanese infants
Minji Nam, *Youngon Choi, Naoto Yamane, Minha Shin, Reiko Mazuka*
- 59 Are preferences for conspecific faces stable in infancy?
Andrea Sorcinelli, *Amy Yamashiro, Jennifer FERENCE, Suzanne Curtin, athena vouloumanos*
- 60 Third Party Detection of Mimicry and Synchrony in Infancy
Amelie Deschenaux, *Maria Jones, Sara Valencia Botto, Erin Robbins, Daniel Kim, Philippe Rochat*

Social Development

- 61 The Relative Importance of Race and Conventionality of Behavior in Young Children's Representations of Social Categories
Katalin Oláh, *Fruzsina Elekes, Ildikó Király*
- 62 Individuation by sociomoral behavior in 11-month-old infants
Hernando Taborda, *Ashley Lyons, Erik Cheries*
- 63 Parent Knowledge and Beliefs Predict Infant and Toddler Use of Mobile Screen Devices
Michaela Wooldridge, *Jennifer Shapka*
- 64 Infant-father attachment stability: Moderating effects of paternal depression
Madeline Shipley, *Geoffrey L. Brown, Sarah C. Mangelsdorf*
- 65 "Good" intentions might lead to "bad" outcomes
Avi Benozio, *Gil Diesendruck*

FRIDAY

Friday, 8:15am-9:45am

(Event 2-001) Presidential Symposium

Grand Salon Room 21 & 24

Friday, 8:15am-9:45am

2-001. Global Issues in Development

Chair: *Karen E. Adolph*

- The Ontogeny of Cultural Learning
Speaker: **Cristine Legare**
Abstract: Humans are a social species and much of what we know we learn from others. To be effective and efficient learners, children must be selective about when to innovate, when to imitate, and to what degree. In a systematic program of interdisciplinary, mixed-methodological, and cross-cultural research, my objective is to develop an ontological account of how children flexibly use imitation and innovation as dual engines of cultural learning. Imitation is multifunctional; it is used to learn both instrumental skills and cultural conventions such as rituals. I propose that the psychological system supporting the acquisition of instrumental skills and cultural conventions is driven by two modes of interpretation: an instrumental stance (i.e., interpretation based on physical causation) and a ritual stance (i.e., interpretation based on social convention). What distinguishes instrumental from conventional practices often cannot be determined directly from the action alone but requires interpretation by the learner based on social cues and contextual information. I will present evidence for the kinds of information children use to guide flexible imitation. I will also discuss cross-cultural research in the U.S. and Vanuatu (a Melanesian archipelago) on the interplay of imitation and innovation in early childhood.
- Thinking about Nature: Across Cultures, Across Languages and Across Development
Speaker: **Sandra Waxman**
Abstract: How do our most fundamental concepts of the natural world – living thing, animal, human -- unfold? How do we view the relations among them? Until recently, research in this arena focused predominantly on children from Western, urban, technologically-advanced communities. But to discover which notions are universal and how they are shaped by experience, we have adopted a cross-linguistic, cross-cultural approach. I'll describe (decades of) evidence illuminating how young children from diverse cultural and language communities acquire fundamental concepts of the natural world and how their knowledge is shaped by the communities in which they are immersed (including children from the US (native and non-native Americans) and Argentina's Chaco rainforest). This basic research, which underscores the challenges facing young children in learning about the natural world, has implications for science education and children's media. To teach effectively, we need to understand the systems of knowledge that children bring with them to their increasingly diverse US classrooms.

(Event 2-002) Paper Symposium

Grand Salon Room 15 & 18

Friday, 8:15am-9:45am

2-002. The role of social attention in the development of infants' action understanding

Chair: *Moritz M. Daum*

- The reciprocity between action understanding and social attention
Ty Boyer, Bennett Bertenthal
- Let's get it together: Infants' understanding of higher-order collaborative goals
Annette Henderson, Sheila Krogh-Jespersen, Amanda Lea Woodward, Rachel Low
- The plasticity of infants' attention to social events: Two training studies
Moritz M. Daum, Wronski Caroline, Mikolaj Hernik
- The statistical structure of action sequences modulates infants'
Claire Monroy, Sarah Gerson, Sabine Hunnius

(Event 2-003) Paper Session

Grand Salon Room 12

Friday, 8:15am-9:45am

2-003. Maternal and Environmental Risk Factors and Their Outcomes in Infancy

Chair: *Daniel Ewon Choe*

- Maternal risk status predicts infant physiological and emotion regulation
Jill Suurland, Kristiaan van der Heijden, Hanneke Smaling, Stephan Huijbregts, Stephanie van Goozen, Hanna Swaab
- Socioeconomic status and the augmentation of within-family risk
Dillon Thomas Browne, Mark Wade, Andre Plamondon, Jennifer Jenkins
- Postnatal Trajectories of Maternal Depressive Symptoms from Infancy to Toddlerhood: Predictors and Outcomes in Early Childhood
Daniel Ewon Choe, Arnold J. Sameroff, Susan C. McDonough
- Developmental Outcomes of Late Preterm Infants from Infancy to Kindergarten in a Nationally Representative Cohort
Prachi Shah, Blair Richards, Wonjung Oh, Julie Lumeng

FRIDAY

(Event 2-004) Paper Symposium

Grand Salon Room 9
Friday, 8:15am-9:45am

2-004. Disseminating Circle of Security: Targeting critical change agents to enhance caregiver-infant attachment relationships

Chair: *Catherine McMahon*

- Circle of Security Training changes how Australian Child and Family Health Professionals view Challenging Child Behavior
Catherine McMahon, Anna Huber, Jane Kohlhoff, Anna-Lisa Camberis
- Using Circle of Security in the Community: A Multi-Site Evaluation and Implementation Study
Angela Maupin, Emily Samuel, Susan Nappi, Jennifer Heath, Megan Smith
- Using Circle of Security (COS-P) in Family Child Care: Program Evaluation Effectiveness Outcomes and Reflections on Implementation
Sarah Gray

(Event 2-005) Paper Symposium

Grand Salon Room 6
Friday, 8:15am-9:45am

2-005. Attention and learning in infancy: Insights from typical/atypical development, computational modeling and developmental robotics

Chair: *Ezgi Kayhan*

- Infants dissociate between surprising events in the extent to which they are relevant for modulating expectations
Ezgi Kayhan, Sabine Hunnius, Jill O'Reilly, Harold Bekkering
- Attentional Switching in Complex Learning Environments: Insights from Computational Modeling and Empirical Work
Madeline Pelz, Celeste Kidd
- Early visual foraging in relationship to familial risk for autism and hyperactivity/ inattention
Teodora Gliga
- How motor experiences alter action perception: A computational account
Yukie Nagai

(Event 2-006) Paper Symposium

Grand Salon Room 3
Friday, 8:15am-9:45am

2-006. Early auditory temporal processing: pitch, speech, and experience-related plasticity

Chair: *Laurianne Cabrera*

- Infants' mature temporal pitch sensitivity: implications for temporal processing
Bonnie Lau, Lynne Werner
- The role of slow and fast temporal cues in phonetic perception at birth, an EEG-NIRS study.
Laurianne Cabrera, Judit Gervain
- Changes in EEG/ERPs and cortical oscillatory dynamics across maturation as a function of a non-invasive behavioral intervention
April A Benasich
- Short-term musical intervention enhances infants' neural processing of temporal structure in music and speech
Christina Zhao, Patricia Kuhl

(Event 2-007) Paper Symposium

Grand Salon Room 13
Friday, 8:15am-9:45am

2-007. Dynamic systems approaches to studying coordination and co-regulation in infant development

Chair: *Marijn van Dijk*

- A microgenetic analysis of mother-infant interaction using RQA
Ralf Cox
 - The temporal structure of eye movements in reenactment: A recurrence based analysis
Pieter de Bordes, Ralf Cox
 - The emergence of complexity in very preterm infant feeding skill: The dynamics of coordinating sucking and breathing across time
Suzanne Thoyre, Jinhee Park
 - Changes in the feeding dialogue during the introduction to solid food
Marijn van Dijk
-

FRIDAY

(Event 2-008) Paper Session

Grand Salon Room 16
Friday, 8:15am-9:45am

2-008. Word learning: Contexts, Sleep and Caregiver Interactions

Chair: *Denise Werchan*

- Semantic Inhibition in Toddlers
Janette Chow, *Anne Aimola Davies, Luis J Fuentes, Kim Plunkett*
- Nighttime Sleep Enhances Preschoolers' Long-Term Generalization of Word Learning
Denise Werchan, *Ji-Soo Kim, Rebecca Gomez*
- Father-infant interaction: 'Unpredictable' contingency & language development
Ada Urm, *Jean Quigley, Elizabeth Nixon*
- It's not just what you say but how you say it! 1-year-olds encode the tone of voice associated with novel words
Melissa Paquette-Smith, *Elizabeth K. Johnson*

(Event 2-009) Poster Symposium

Grand Ballroom Salon C&D_(Exhibit Hall)
Friday, 8:15am-9:45am

2-009. The Dynamics of Social Interaction: Infants' Coordination of Action and Attention

Chair: *Bennett Bertenthal*

- Seeking process in explaining action understanding: Parents' actions towards infants
Vasudevi Reddy, *Anna Wallot, Sebastian Wallot*
- Developmental Changes in Infants' Coordination of Visual Attention during Social Interactions
Bennett Bertenthal, *Ty Boyer, Samuel Harding, Caitlin Lischer*
- Natural Statistics of Maternal Actions Preceding Attention-sharing with Infants
Gedeon Deák, *Ann Krasno, Jochen Triesch*
- Infants structure their visual experiences to favor toys over faces during play
John Franchak, *Chen Yu*

(Event 2-010) Poster Session

Grand Ballroom Salon C&D (Exhibit Hall)
Friday, 8:15am-9:45am

2-010. Poster Session 5

Attention, Memory, and Learning

- 1 The Effect of Attention Getters on Infant Heart Rate, Attention, and Learning
Lori Curtindale, *Brittany Goss, Caroline Mulhare, Hannah Wilson*
- 2 Signal Clarity for Infant Numerical Representation: the role of non-quantity dimensions
Lisa Cantrell, *Mee-Kyoung Kwon, Lisa Oakes*
- 3 Infant Attentional Processing and Language Acquisition: The Role of Posture
Jaima S. Price, **Wallace E. Dixon, Jr.**
- 4 How infant-directed actions affect infants' learning of object affordances: A motion tracking study
Johanna E. van Schaik, *Marlene Meyer, Camila van Ham, Sabine Hunnius*
- 5 Empty Looks or Paying Attention? Can 20-month-olds' visual behavior during encoding of an imitation task predict later memory
Trine Sonne, *Osman Skjold Kingo, Peter Krojgaard*

Cognitive Development

- 6 Investigating the attentional cueing using arrows and arrow like icons in 4 and 8 month old infants
Milad Ekramnia, *Jacques Mehler*
- 7 Influence of adult and infant directed face movement and race on visual attention
Michaela Carol DeBolt, *Lisa Cantrell, Tina Vo, Lisa Oakes*
- 8 Pupil responses to the detection of local and global violations at 4 months
Jean-Rémy Hochmann, *Juan Manuel Toro*
- 9 Changing Preschoolers' Perspective on the Dimensional Change Card Sort
Sandra A Wiebe, *Justin Witzke*
- 10 Differential Effects of Socioeconomic Status on "Cool" and "Hot" Executive Functions in Early Childhood
Daphne M Vrantsidis, *Caron AC Clark, Nicolas Chevalier, Kimberly Andrews Espy, Sandra A Wiebe*
- 11 Engaging in Collaboration Facilitates Higher-Order Shared Goal Predictions
Sheila Krogh-Jespersen, *Annette Henderson, Amanda Lea Woodward, Natalie Mordini*
- 12 Infants are efficient learners, selecting the optimal source and optimal type of information to learn
Katarina Begus, *Teodora Gliga, Victoria Southgate*

FRIDAY

- 13 Can I eat that too? 18-month-old infants use social information to determine which plants are edible
Annie Wertz, Karen Wynn, Claudia Elsner, Valentina Fantasia, Aleksandra Włodarczyk
- 14 Infants' abilities to evaluate others on the basis of social interactions
Joanna Joo Kyung Chae, Hyun-joo Song

Communication and Language

- 15 Bilingual Toddlers have Advanced Abilities to Repair Misunderstandings
Stephanie Wermelinger, Anja Gampe, Susanne Grassmann, Moritz M. Daum
- 16 Early Executive Function in Spanish-English Bilingual and Spanish Monolingual Children
Daniel Barlam, Yushuang Liu, Diane Poulin Dubois, Pascal Zesiger, Margaret Friend
- 17 Language discrimination in monolingual and bilingual infants, where is the difference coming from?
Loreto Nacar, Marc Colomer, Núria Sebastián-Gallés
- 18 Early visual perceptual development in monolingual and bilingual 4-month-old infants
Monika Molnar, **Jovana Pejovic**
- 19 Learning from many people: The role of home environment and speaker variability in infants' novel word learning
Abbie Thompson, Jill Lany
- 20 Examining the efficacy of a parent pointing training intervention
Virginia C. Salo, Nathan Fox, Meredith L. Rowe
- 21 Construction and standardisation of the UK Communicative Development Inventory (UK-CDI), Words and Gestures
Katie Alcock, Kerstin Meints, Victoria Brelsford, Janine Just, Jayne Summers, Caroline Rowland
- 22 Emergence of point comprehension to occluded entities in the first year of life
Marie Kaiser, **Johanna Nuria Ruether**, Ulf Liszkowski
- 23 That's not my language: When do infants selectively ignore non-native speech sounds in the formation of word-object mappings?
Valerie San Juan, Suzanne Curtin, Susan Graham
- 24 Early word segmentation and mapping in preterm infants: can they benefit from audiovisual cues?
Maria Teixidó, Laura Bosch, Thais Agut-Quijano
- 25 Early speech discrimination abilities in infants at- and not at-risk for dyslexia
Marina Kalashnikova, Usha Goswami, Denis Burnham
- 26 Made you look: Gaze-following facilitates 2-year-olds' use of cross-situational information in verb learning
John P Bunce, Rose Scott

- 27 "Books at the Beginning": A data-base of English language books read to children ages 0-36 months
Carla Hudson Kam, Lisa Matthewson
- 28 Parental contact enhances 8-month-olds' ability to segment words
Leo-Lyuki Nishibayashi, Henny Yeung
- 29 Constraints on sub-syllabic statistical segmentation
Mireille Babineau, Rushen Shi

Developmental Neuroscience

- 30 Perception at a glance: The development of high-level categorization
Stefanie Peykarjou, Stefanie Hoehl, Bruno Rossion, Sabina Pauen
- 31 Eye-tracking measures of logical processing in infants and adults
Nicoló Cesana Arlotti, Ryszard Cetnarski, Luca L. Bonatti
- 32 Odd object out: Neural differentiation of object exemplars after 3 months of label learning in infants
Charisse B Pickron, Eswen Fava, Lisa Scott
- 33 The cortical sources of face sensitive ERP components in infancy
Maggie Weinel Guy, Nicki Zieber, John E. Richards

Emotional Development

- 34 Jealousy in "Expectant" Toddlers: Links with Adjustment Problems Following the Birth of a Sibling
Candace Brianna Marlin, Sybil Hart, Jennifer K Harris, Anuradha J Sastry
- 35 Co-regulation and the quality of the relationship during face-to-face interactions among at- and low risk mother-infant dyads
Kelly Doiron, Dale M. Stack, Jessica Fetter, Lisa Serbin
- 36 Age Differences in the Self-Regulation of Fear: Changes in the Dynamic Coupling of Prepotent and Executive Processes
Santiago Morales, Nilam Ram, Kristin Buss, Pamela Cole, Jonathan L Helm, Sy-Miin Chow
- 37 Early Life Adversity, Post-Adoption Parenting, and Emotion Regulation in Internationally Adopted Children
Kalsea J. Koss, Jamie Lawler, Shanna Mliner, Megan R. Gunnar
- 38 Coparenting and Parenting Satisfaction during the First Year after the First Childbirth
Jin-kyung Lee, Sarah J Schoppe-Sullivan, Claire Kamp Dush
- 39 Contributing Factors of Father Involvement on Maternal Parenting of Their Young Children
Emily Gutman, Jerrica Pitzen, Gloria Romero, Alissa C. Huth-Bocks

FRIDAY

- 40 Person Centered Analyses of Parenting Behaviors with 12-month-old Infants Predict Infant Affect During a Challenging Teaching Task
Paige Safyer, Matthew Stevenson, Brenda Volling
- 41 Maternal Postpartum Depression: Further Exploration of Child Effects
Nora Erickson, Eric Desmarais, David Bridgett, Alyssa Neumann, Miguel Sotelo, Maria Gartstein
- 42 Observation of Child Attachment and Caregiver Sensitivity in a Filipino Orphanage
Marilyne Dumais, Geneviève Michel, Aliya Mubarak, Chantal Cyr

Motor and Sensorimotor Processes

- 43 Impact of surface stability on sitting postural sway in 15-month-old infants at low- and high-risk of ASD
Amanda J. Arnold, Rachel C. Harris, Joshua J. Liddy, A.J. Schwichtenberg, Laura J. Claxton
- 44 Emergent Vocal-Motor Coordination from 6- to 9-months: New Considerations for Effects of Laterality and Posture
Sarah M. Sanborn, James A. Green, Pamela Askar
- 45 Connectivity in the Motor Network Matures Before the Emergence of Complex Motor Behaviour
Jordynne L. V. Ropat, Annika C Linke, Conor J Wild, Charlotte Herzmann, Leire Zubiaurre-Elorza, Hester Duffy, David SC Lee, Victor K Han, Rhodri Cusack
- 46 Drinking Behavior and Gross Motor Development in 6- to 11-Month-Old Infants
Yoshimi Osugi, Luna Osakabe, Emi Itako, Akiko Ishizaki, Takafumi Ooka, Shouji Hironaka
- 47 Patterns of self-directed touch in preterm human infants
Valerie Mendez-Gallardo, Scott R. Robinson
- 48 Concurrent validity between PDMS-2 and BSID-3 in young infants
Ming Li, Gai Zhao, Betsy Lozoff

Pediatric Issues, Psychopathology and Developmental Delay

- 49 Families of children with ASD are less likely to vaccinate subsequent child and more often perceive adverse reactions to vaccine
Karen Dobkins, Leslie Carver, Elizabeth Harrison, Gena Glickman
- 50 Relations between parental use of ESDM intervention techniques and communication growth in toddlers with ASD
Meagan Ruth Talbott, Kimberlee Moomey, Jessica Greenson, Katherine Davlantis, Nicholas Lange, Annette Estes, Sally J. Rogers
- 51 Maternal Infant and Early Childhood Home Visiting: Home Visitor Beliefs and Openness to Evidence Based Practice
Stephanie Parade, Stephanie Shepard Umaschi, Rebecca Silver, Kristine Campagna, Sara Remington, Sarah Bowman, Joanna Rojcewicz, Ronald Seifer

- 52 Communicative and motor developmental indexes at 12 months in extremely preterm infants
Alessandra Sansavini, Erika Benassi, Silvia Savini, Annalisa Guarini, Maria Cristina Caselli, Jana Marie Iverson
- 53 Examining Pathways Linking Maternal Depressive Symptoms Early in Life to Children's Subsequent Behavior Problems
Pamela Linton Norcross, Esther Leerkes, Nan Zhou

Perception

- 54 Visual context differentially affects action perception in 10-month-old infants
Cathleen Bache, Hannes Noack, Waltraud Stadler, Anne Springer, Franziska Kopp, Ulman Lindenberger, Markus Werkle-Bergner
- 55 Attraction of Infant's Attention by Emotional Body Stimuli
Rachel Jubran, Alyson Hock, Hannah White, Alison Rae Heck, Ramesh S. Bhatt
- 56 Young Infants' Perception of Complex Occlusion Events: Reasoning or Perception?
Gavin Bremner, Alan Slater, Uschi Mason, Jo Spring, Barrie Usherwood, Alison Rees, Diana Tham, Scott Johnson
- 57 What do infants from a multiracial environment prefer to look at?
Diana Tham, Gavin Bremner, Pei Jun Woo

Social Development

- 58 High Parental Intrusiveness in the Context of High Neighborhood Risk Predict Greater Child Anxiety
Meghan McDoniel, Kristin Buss, Dawn Witherspoon, Ginger Moore
- 59 Face processing differs between ASD and typically development early in infancy
Amy Hirshkowitz, Vivian Lee, Jennifer Walsh, M.D. Rutherford
- 60 Children's tendencies to resist bribes to pursue a joint goal with peers
Ulrike Kachel, Margarita Svetlova, Michael Tomasello
- 61 Maternal expectations affect toddlers' peer collaboration once socio-cognitive requirements are in place
Nils Schuhmacher, Joscha Kärtner
- 62 How infants reason about affective states and social interactions
Annie C. Spokes, Elizabeth S. Spelke
- 63 Emotion and Mental State Discourse: A Causal Mechanism in Early Prosocial Development
Jesse Drummond, Emma Satlof-Bedrick, Whitney Waugh, Stuart Hammond, Celia Brownell

FRIDAY

- 64 Six-month-old infants' inferences about affiliation based on shared food preferences
Zoe Liberman, Katherine Kinzler, Amanda Lea Woodward
- 65 Equal Praise for Equal Work: 10- month-olds expect an individual to praise others according to their efforts
Melody Buyukozer Dawkins, Stephanie M. Sloane, Renee Baillargeon
- 66 Mother-infant co-regulation in the triadic context from 4 to 24 months: normative trends and individual differences
Tiziana Aureli, Fabio Presaghi
- 67 Contextual Factors and Infant Temperament Predictors of Toddler Effortful Control and Impulsivity
Anton Petrenko, Annalise Farina, Timothy Bautista-Johnston, Haley Gander, Natalie Ckuj, Jacob Holzman, David Bridgett
- 68 Infants' Use of Facial Features to Represent Social Dominance
Lauren Hartstein, Seyyed Borgheai, Erik Cheries

Friday, 10:00am-11:30am

(Event 2-011) Dedicated Session

Grand Salon Room 21 & 24
Friday, 10:00am-11:30am

2-011. Carolyn Rovee-Collier: Her Legacy for Science, Practice, and Academic Leadership

Chair: *Harlene Hayne*

Speakers: *Harlene Hayne, Andrew Meltzoff, Rachel Barr, Kimberly Boller*

Abstract: Carolyn Rovee-Collier's research was the catalyst for a paradigm shift in our understanding of infant memory development. When she entered the field in the mid-1960's, infants were thought to learn little and remember even less. Carolyn's research has forever changed those views, showing that infants learn quickly, remember over long periods of time, and retrieve and use their memories in a wide range of circumstances. Many of her views were as controversial as they were profound, and they changed our thinking in multiple fields. Her work has been recognized by the Warren Medal from the Society of Experimental Psychologists and a Distinguished Scientific Contribution award from the Society for Research in Child Development. She served as president of ICIS, of the Eastern Psychological Association, and of the International Society for Developmental Psychobiology. She was the editor of *Infant Behavior and Development* for 18 years. The impact of Carolyn's career extends beyond her CV. She was a personal force of nature who was highly committed to nurturing the careers of others. Her work and her support of our careers left a lasting impression on us and others. On October 2, 2014, Professor Carolyn Rovee-Collier lost her brave battle with breast cancer, following years of living with multiple sclerosis. In this symposium we will celebrate the work of Professor Carolyn Rovee-Collier. We will highlight some of her major research achievements, trace her influence

on our own research and leadership careers, and highlight her impact on the field of infancy generally and on ICIS in particular.

Biography: Harlene Hayne received her PhD from Rutgers University under the direction of Carolyn Rovee-Collier. Professor Hayne is now the Vice-Chancellor (President) of the University of Otago. She is a Fellow of the Royal Society of New Zealand and of the American Psychological Society, the Deputy Chair of the Board of Fulbright New Zealand, and a member of the Board of the New Zealand Treasury.

(Event 2-012) Paper Symposium

Grand Salon Room 15 & 18
Friday, 10:00am-11:30am

2-012. Emerging Structure-Function Relations in Early Brain Development

Chair: *Mark Samuel Blumberg*

- Infant Neuroimaging: Toward Translational Connectivity
Brittany R. Howell, Mihye Ahn, Jodi Godfrey, Yundi Shi, Govind Nair, Xiaoping Hu, Essa Yacoub, Martin Styner, Mar Sanchez, Jed Elison
- White Matter Maturation In Full and Late Pre-Term Infants
Sean Deoni
- Using Image Registration and fNIRS to Examine the Early Development of Visual Working Memory
John P Spencer, Lourdes M Delgado Reyes, Sobanawartiny Wijekumar, Vincent Magnotta

(Event 2-013) Paper Symposium

Grand Salon Room 12
Friday, 10:00am-11:30am

2-013. Programming of the HPA axis: Comparative studies across rodent, rhesus macaque, and human models

Chair: *Elisabeth Conradt*

- Within- and Between-Litter Maternal Care Alter Behavior and Gene Regulation in Female Offspring
Pauline Pan, Alison Fleming, Daeria Lawson, Jennifer Jenkins, Patrick O. McGowan
- Programming of the infant HPA axis by maternal rearing environment: Evidence from experimental research with rhesus macaques
Elisabeth Conradt, Elizabeth Passey, Christina Barr, Stephen Lindell, Stephen J Suomi, Dee Higley
- Placental Corticotropin Releasing Hormone influences Neurodevelopment in Rodents and Humans
Elysia Davis, Tallie Z Baram, Laura Glynn, Megan Curran, Curt A. Sandman

FRIDAY

(Event 2-014) Paper Symposium

Grand Salon Room 9
Friday, 10:00am-11:30am

2-014. Infant Development in the Context of their Caregivers

Chair: *Keith Crnic*

- Cascading Influence of Stressful Life Events during Pregnancy on 18-month-olds' Emotional and Behavioral Problems
Betty Lin, Keith Crnic, Linda Luecken, Nancy Gonzales
- Early Influences on Parenting, Child Cognition and Behavior: Findings from a Diverse Sample of Infants born Preterm
Emily Gerstein, William Dement, Rachel Paul, Cynthia E Rogers
- The Association between Maternal Depression and Sensitivity: Child-Directed Effects on Parenting during Infancy
Rebecca Newland, Stephanie Parade, Ronald Seifer
- The Emergence of Social-Emotional Competencies and Problems in Relation to Infant Temperament and Parenting in Mexican Americans
Lucia Ciciolla, Keith Crnic, Linda Luecken, Nancy Gonzales

(Event 2-015) Paper Symposium

Grand Salon Room 6
Friday, 10:00am-11:30am

2-015. Infants' Understanding of Social Hierarchy

Chair: *Arianne E. Eason*

- Infants' Evaluation of Advantaged and Disadvantaged Individuals
Arianne E. Eason, Jessica Sommerville
- Infants' Expectations About Resource Distributions Reflect Social Dominance Structures
Elizabeth A. Ake, Jessica Sommerville
- Infants Infer Dominance Relations from the Relative Numerical Size of Competing Groups
Anthea Pun, Susan Birch, Andrew Baron
- Discussant
Gergely Csibra

(Event 2-016) Paper Session

Grand Salon Room 3
Friday, 10:00am-11:30am

2-016. Maternal and Neural Factors Affecting Infant Temperament

Chair: *Lindsay C. Bowman*

- Both maternal sensitivity and depression mediate the relation between maternal history of early adversity and child temperament
Andrée-Anne Bouvette-Turcot, H  l  ne Gaudreau, Alison Fleming, Meir Steiner, Michael J Meaney
- Maternal Anxiety Predicts Attentional Bias Towards Threat in Infancy
Santiago Morales, Kayla M Brown, Brad Taber-Thomas, Kristin Buss, Koraly Perez-Edgar
- Infant predictors of childhood internalizing: The role of temperament and neural correlates of emotion-perception
Lindsay C. Bowman, Sarah Anne McCormick, Alissa Westerlund, Perry Dinardo, Anna M. Zhou, Charles A. Nelson
- Aspects of Toddlers' Effortful Control and Mothers' Behavior Jointly Predict Toddler Compliance in a Control Situation
Adriana Molitor, Hui-Chin Hsu, Carolyn Noack, Niamh Murphy, Sarah Gragg

(Event 2-017) Paper Symposium

Grand Salon Room 13
Friday, 10:00am-11:30am

2-017. Studying Language Development through Human and Automated Annotation of Infants' Natural Auditory Environments

Chair: *Adriana Weisleder*

- Automatic Estimation of Infant Syllable Production in Naturalistic Recordings
Anne S Warlaumont, Heather L Ramsdell-Hudock
 - 6 & 7-month-olds' Noun Input: Human and Automated Corpus Analyses
Sharath Koorathota, Shaelise Morton, Andrei Amaturi, Erika Bergelson
 - Daycare vs. Home: Comparing Human- and Machine-Annotated Language Input Across Childcare Settings
Melanie Soderstrom, Wayne Franz
 - Fidelity of Automatically Coded Family Speech of Mothers, Fathers, and 30 month-old Children with and without Hearing Loss
Mark VanDam, Paul De Palma, Noah H Silbert
-

FRIDAY

(Event 2-018) Paper Session

Grand Salon Room 16
Friday, 10:00am-11:30am

2-018. Infant Processing of Word Associations, Grammar and Prosody

Chair: *Alissa Ferry*

- The organisation of the early lexicon: Evidence from auditory priming in 15- and 18-month-olds
Caroline Floccia, *Claire Delle Luche, Jeremy Goslin, Thomas Hills, Kim Plunkett*
- Infants Track Non-adjacent Dependencies at the Grammatical Level
Andréane Melançon, *Rushen Shi*
- Following the rules: Nine-month-old Italian-learning infants understand gender and singular/plural morphological distinctions
Alissa Ferry, *Perrine Brusini, Marina Nespor, Jacques Mehler*
- Newborns use prosodic cues to segment continuous speech.
Ana Flo, *Alissa Ferry, Perrine Brusini, Marina Nespor, Jacques Mehler*

(Event 2-019) Poster Symposium

Grand Ballroom Salon C&D_(Exhibit Hall)
Friday, 10:00am-11:30am

2-019. Understanding object-directed actions in context

Chair: *Scott Robson*

- Selectivity of action influences infants interpretation of others' goals
Scott Robson, *Valerie Kuhlmeier*
- Infants' understanding of others' action-preferences
You-jung Choi, Jin H. Seok, Yuyan Luo
- Prior action-effect association enables goal-directed interpretation of a novel action in a new context
Szilvia Biro, *Stephan Verschoor, Alan M. Leslie*
- Integration of Contextual Information on Neural Measure of Action Perception Dependent on Action Planning Ability at 10 Months
Sarah Gerson, *Áine Ni Choisdealbha, Vincent Reid, Sabine Hunnius*

(Event 2-020) Poster Session

Grand Ballroom Salon C&D (Exhibit Hall)
Friday, 10:00am-11:30am

2-020. Poster Session 6

Attention, Memory, and Learning

- 1 Novelty Preferences During Early Infancy: Look Duration and Gaze Shift Contributions
Donna Fisher-Thompson
- 2 How you get there affects what you learn: Interactions between visual attention and memory in infancy
Heidi Baumgartner, *Dima Amso*
- 3 Attention to Multimodal Events from 3 to 12 Months: Developmental Differences are Magnified by Competing Stimulation
James Torrence Todd, *Kasey C. Soska, Lorraine Bahrick*
- 4 Meta-analysis of Toddlers' Object Labeling Behavior Predicts Goal Imitation Success in Transfer Learning Task
Alecia Moser, *Sarah Olsen, Rachel Barr, Peter Gerhardstein*
- 5 Gist extraction after sleep in 12-month-old infants
Carolin Konrad, *Jane Herbert, Silvia Schneider, Mareike Groene, Sabine Seehagen*

Cognitive Development

- 6 Previous Goal Selection Information Influence Gaze Latency on Future Trials in 18-month-old Infants.
Dorota Green, *Gustaf Gredebäck, Marcus Lindskog, Mari Fransson, Ben Kenward, Carin Marciszko*
- 7 Salient action goals speak louder than words in 16-month-olds' imitation of goal-directed actions
Birgit Elsner
- 8 Infants recognize statistically learned action patterns performed by a new actor at 14 months
Natalie Brezack, *Maya Marzouk, Roberta Michnick Golinkoff, Kathy Hirsh-Pasek*
- 9 Bilingualism and Inhibitory Control: The Influence of Culture
Anja Gampe, *Susanne Grassmann, Moritz M. Daum*
- 10 Individual differences in A-not-B performance and brain activity: Modeling infant development with parallel process growth models
Leigha MacNeill, *Nilam Ram, Martha Ann Bell, Nathan Fox, Koralay Perez-Edgar*
- 11 Neurophysiological measures of object representations following occlusion and communication
Wiebke Pätzold, *Sriranjani Karthik, Ulf Liszkowski*

FRIDAY

12 Music Enhances Observational Learning in 16-to 18-Month-Old Infants
Rana Esseily, Alyssia Tessier, Eszter Somogyi

13 Why do faces in infant-perspective scenes decline over time?
Swapnaa Jayaraman, Linda Smith

Communication and Language

14 Verbal labeling overrides visual similarity during object categorization in 9-month-old infants
Hanna Marno, Gert Westermann, Eugenio Parise

15 The Power of a Name: Novel Nouns Promote Categorization of Novel Stimuli at 12 Months
Alexander LaTourrette, Sandra Waxman

16 The effect of background variability on referent selection in fast mapping tasks: evidence from eye movements
Shirly Ma, **Katherine E. Twomey**, Gert Westermann

17 Identifying the Range of Auditory Signals that Support Infant Categorization
Danielle Perszyk, Sandra Waxman

18 Competing constraints in the acquisition of determiners, adjectives, count nouns, mass nouns and plurals
Alexandra Lavrentovich, Peter Gordon

19 Early communicative development in Swedish children aged 12 to 30 months
Christine Cox Eriksson, Tatjana von Rosen

20 The language of support in young children's spontaneous speech
Laura Lakusta, Maria Brucato, Amritra Bindra, Madalyn Polen, Barbara Landau

21 Context-Specific Syllable Co-occurrence Probabilities in Infant-Directed Speech
Rose Maier, Caitlin M. Fausey

22 Infant Chronic Biological Stress, SES, and Maternal Gaze Shifting Associated with Higher Level Gestural Communication Skills
Katie Kao, Ashley Moore St. John, Charu T Tuladhar, Jerrold S. Meyer, Amanda Tarullo

23 Perception of lexical tones by non-tone-learning infants: level tones and contour tones
Elsa Santos, Rushen Shi, Chen Qu

24 Keep Looking: No Robust Anticipatory Looking Paradigms Yet in Infant Speech Sound Learning
Buddhamas Pralle Kriengwatana, Caroline Junge, Karen Mulak, Katerina Chladkova, Cory Bonn, Richard Aslin, Paola Escudero

25 The Use of Stress Cues for Word Segmentation by Monolingual Dutch- and Turkish-learning 8-month-olds
Brigitta Keij, René Kager

26 Online Processing during Novel Noun Generalization
Megan G. Lorenz, Jordan Mattis, Larissa K Samuelson

27 (Not so) small talk: How cell phone conversations affect parent-toddler word learning exchanges
Sara Schroer, Jessa Reed, Kathy Hirsh-Pasek, Roberta Michnick Golinkoff

28 Infants' Understanding of Count Nouns and Proper Names
Jennifer C Campbell, D. Geoffrey Hall

29 The Impact of Temperament on Early Vocabulary Acquisition: A Longitudinal Study
Poliana Goncalves Barbosa, Elena Nicoladis

Developmental Neuroscience

30 Shining light into the early development of visual working memory: an fNIRS study
Lourdes M Delgado Reyes, Sobanawartiny Wijekumar, Vincent Magnotta, John P Spencer

31 A High-Density EEG Study of the Development of Optic Flow Perception in Infants
Kenneth Vilhelmsen, Ruud van der Weel, Audrey van der Meer

32 Presaccadic Activity in Response to Emotional Gaze Cues in 12-month-olds
Reiko Matsunaka, Kazuo Hiraki

33 The developmental change in integration of emotion perception from bodily expressions and affective sounds
Peiwen Yeh, Elena Geangu, Kirsty Dunn, Vincent Reid

34 Links between prefrontal EEG asymmetry, infants' temperament and emotional responses to their peers
Maria Magdalena Crespo-Llado, Ross E Vanderwert, Elena Geangu

Emotional Development

35 Assessment of separation-induced stress and stress-coping in infants via salivary biomarkers
Miki Takahasi, Naoto Yamane, Sanae Fukuda, Reiko Mazuka

36 Physiological Measures of Positive Emotional Contagion in Infancy
Janna Colaizzi, Elisa Duell, Evan M. Jordan, Brett McVey, Collin O'Leary, Courtney Hartman, Kyle Christopher, Sarah Winburn, Sammantha Roshay, David G. Thomas

37 An experimental study on mother-infant skin-to-skin contact in full-terms
Roseriet Beijers, Linda Cillessen, Maartje Zijlmans

FRIDAY

- 38 The recognition of emotional facial expressions is shaped by culture in 7-month-old infants
Elena Geangu, Hiroko Ichikawa, Junpeg Lao, Masami Yamaguchi, So Kanazawa, Roberto Caldara, Chiara Turati
- 39 Toddler Temperament Around the Globe: A Cross-Cultural Comparison of Children from 13 Cultures
Sam Putnam, Maria Gartstein, Ibrahim Acar, Roseriet Beijers, Oana Benga, Sara Casalin, Carmen Gonzalez-Salinas, Sae-Young Han, Veronica Garcia-Olguin, Beatriz Linhares, Mirjana Majdandzic, Rosario Montiroso, Soile Tuovinen, Elena Kozlova, Zhengyan Wang
- 40 Coordination of mother-infant heart rate during the Still Face paradigm
Elizabeth B. daSilva, Hannah Smith, Bennett Bertenthal
- 41 Fetal origins of infant emotional reactivity
Kristin M Voegtline, Radhika Raghunathan, Ginger Moore, Janet DiPietro
- 42 Maternal prenatal salivary diurnal cortisol: Associations with infant fussiness as rated by observers and mothers
Radhika Raghunathan, Kristin M Voegtline, Janet DiPietro
- 43 Parent Predictors of Infant Physiological Regulation
Angelica Marie Soto-Freita, Diane M Lickenbrock
- 44 Associations between Parent Personality and Sensitivity on Infant Cardiac Physiology
Cassidy L O'Connell, Diane M Lickenbrock

Motor and Sensorimotor Processes

- 45 Adults' monitoring of infants leads to exaggerated infant-directed actions
Kaori Nagata, Eriko Yamamoto, Kazuo Hiraki
- 46 What's next? Infants prospectively control their reaching movements based on the difficulty of their subsequent action
Janna Marleen Gottwald, Aurora de Bortoli Vizioli, Pär Nyström, Therese Ekberg, Claes von Hofsten, Gustaf Gredebäck
- 47 Face Maps in 2- to 6-Month-Olds
Claire Frances Noonan, Blair Youmans, Valentina Gyarfás, Miriam Lóbrano, Olivia Riccio, Jeff Lockman
- 48 Exploring links between infants' initiation and actions during toy play
Kelsey L West, Jana Marie Iverson
- 49 Does Bimanual Manipulation Facilitate Later Development of Tool-Use?
Iryna Babik, George Michel

Pediatric Issues, Psychopathology and Developmental Delay

- 50 The Clinical Utility of the Modified Checklist for Detecting children with Autism Spectrum Disorders before age 4 in Taiwan
Chin-Chin Wu, Selene Wong, Ching-Chi Yang
- 51 Family Affectedness of Autistic-like Traits Influence Developmental Trends in Social Attention
Tawny Tsang, Carolyn Ponting, Ted Hutman, Shafali Jeste, Mirella Dapretto, Scott Johnson
- 52 NICU Family Nurture Intervention improves repair of negative and helps sustain positive engagement in mothers and preterm infants
Beatrice Beebe, Michael M Myers, Howard Andrews, Sang Han Lee, Judith Austin, Nataliya Rubinchik, Julie Ewing, Natalie Buchinsky, Anna Egleson, Anielle Fredman, Josef Kala, Conor Shanahan, Steph Scrofani, Robert J Ludwig, Martha G Welch
- 53 Associations between Contextual Factors and Sleep Problems in a Clinical Sample of Infants and Toddlers
Jessica Grande, Sonia Rubens, Andrea Tountas, Kristina Patrick, Melisa Moore, Jodi Mindell
- 54 Impact of Methadone Maintenance Treatment and Perinatal Depression on Accuracy of Maternal Reports of Infant Regulation
Nicole A. Heller, Melinda K. Nystrand, Marie Hayes
- 55 Television exposure in 4 month-old infants is associated with parent report of sleep problems
Andrew Ribner, Clancy Blair

Perception

- 56 Encouraging 24-Month-Olds to Think Before They Act
Martha Arterberry, Susan Hespos
- 57 The Origins and Early Development of Cue Combination
Vladislav Ayzenberg, Stella Lourenco
- 58 Direct experience with non-human species influences perceptual-tuning to faces
Leighanne Ormston, Kathleen Elizabeth Shaw, Heather Bortfeld
- 59 Multisensory Cues Aid Infants in Overcoming the Other-Race Effect
Nicholas Minar, David J Lewkowicz

Social Development

- 60 The Role of Career Goals, Infant/Toddler Focus, and Beliefs in Preparing a Skilled and Effective Birth to Three Workforce
Jennifer Henk, Claire D. Vallotton, Maria Fusaro, Amy Williamson, Nicole Gardner-Neblitt, Larra Rucker

FRIDAY

- 61 Maternal Salivary Cortisol And Alpha Amylase Reactivity During Infant Feeding
Madalynn Neu, Ashley Haight
- 62 Linkages between perceptions of family stress, morning cortisol levels, and children's social-emotional behaviors
Jennifer Vu, Jason Hustedt, Rena Hallam, Myae Han
- 63 Caregiver Sensitivity and Children's Nutritional Status in Lao PDR
Michelle C Fong, Jessica Dwyer, Mai Kasuavang, Jeffrey R Measelle
- 64 The development of preferential attention to biological motion in 2-24-month-old infants
Robin D Sifre, Lindsay Olson, Warren Jones, Ami Klin, Sarah Shultz
- 65 Social Memory Biases in Infants and Apes
Lauren Howard, Lydia Hopper, Amanda Lea Woodward
- 66 Maternal personality, parenting and early child development
Anneloes L van Baar, Leonie Steenis, Marjolein Verhoeven, Maja Dekovic
- 67 The effect of babywearing on maternal responsiveness and infant social expectations
Emily Elysia Little, Cristine Legare, Leslie Carver
- 68 Infants Take into Account Recipients' Prior Resources in Judging Fair Distributions
Melody Buyukozer Dawkins, Stephanie M. Sloane, Renee Baillargeon
- 69 Mother-Child Interactions and Attachment Security: The Role of Tempo, Intensity, and Directedness
Sydney Iverson, Katelyn Frederick, Bianca Schwab, Audra Biermann, Maria Gartstein

Friday, 11:30am-12:30pm

(Event 2-021) Special Event

Grand Salon Room 10
Friday, 11:30am-12:30pm

2-021. Mock NIH Review Panel

Presenter: *Lisa Freund*

A Mock NIH review panel will evaluate two different grant applications so you can see what happens during the NIH review process. Program and Review Officers from the Eunice Kennedy Shriver National Institute of Child Health and Human Development (NICHD) as well as NIH supported investigators acting as reviewers will participate. There will be time for questions following the presentation.

Friday, 12:30pm-2:00pm

(Event 2-022) Invited Speaker

Grand Salon Room 21 & 24
Friday, 12:30pm-1:45pm

2-022. The Ontogeny of Social Visual Engagement in Infants and Toddlers with Autism Spectrum Disorder

Chair: *Scott Johnson*

Speaker: *Ami Klin*

Description: This presentation highlights the critical role of early diagnosis and intervention in attenuating the symptoms of autism. Data will be presented on early diagnostic indicators obtained through eye-tracking-based behavioral assays that quantify the unfolding social disabilities in autism. In the study of densely-sampled cohorts over the course of the first 2 years of life, the results of these assays were used to generate "growth charts" of normative social engagement, and the deviations from the norm were taken as early indicators of risk. Subsequent studies focused on the screening and diagnostic utility of our methods in large samples of toddlers. This effort yielded high sensitivity and specificity for the screening for ASD in 16- to 30-month-old children. The ultimate goal of this effort is to develop objectified and quantitative tools for the detection of autism in infancy and toddlerhood, tools that might be deployed in primary care pediatricians' offices as part of a larger effort in implementation science: to deploy cost-effective tools for universal screening of ASD and related developmental delays. This work will be contextualized in terms of recent developmental social neuroscience research with toddlers with autism, which implicated developmentally very early emerging, and evolutionarily highly conserved, mechanisms of social adaptation, which set the stage for reciprocal social interaction, which in turn represent the platform for early social brain development.

Biography: Ami Klin, Ph.D. is the Georgia Research Alliance Eminent Scholar Professor and Chief of the Division of Autism and Developmental Disabilities at Emory University School of Medicine, and Director of the Marcus Autism Center, Children's Healthcare of Atlanta, a National Institutes of Health Autism Centers of Excellence.

FRIDAY

(Event 2-023) Invited Views by Two

Grand Salon Room 15 & 18
Friday, 12:30pm-2:00pm

2-023. Learning from Multiple Inputs by Humans and Robots

Moderator: *John Franchak*

Presentation 1: From Hands-Eye Coordination to Words: A Pathways Approach to Development
Speaker: **Linda Smith**

Abstract: Theorists often refer to the far reach of developmental achievements in infancy in terms of a “developmental cascade.” This talk is about how to study that cascade, how doing so requires different methods and forms of explanation, and encourages new interdisciplinary connections. Borrowing from biologists and embryologists, a developmental pathway is defined as the route, or chain of events, through which a new structure or function forms. These pathways can be complex, multi-causal and contain unexpected dependencies. To illustrate a pathways approach, I will consider three developmental pathways – each begins with the development of coordinated hands and eyes and actions on objects and ends with object name learning. One pathway concerns head stability and stabilized visual attention. A second pathway is from hands and eyes to visual object recognition. The third concerns hand-eye coordination and the development of joint attention. The talk will present data from a series of experiments (many in collaboration with Chen Yu or Karin James) that studied 12 to 24 month old children that used head-mounted scene cameras and eye-trackers. Each of the three pathways is important and informative in its own right, but the overlapping, multi-causal nature of these pathways is the real lesson because they challenge usual analytic approaches in science and promote a synergistic approach to explanation (and a link to epigenetic robotics).

Presentation 2: How Baby Robots Help Us Understand Complex Dynamics in Development
Speaker: **Pierre-Yves Oudeyer**

Abstract: Understanding infant development is one of the greatest scientific challenges, as this is a massive complex dynamical system. The development of skills can be viewed as pattern formation through the interactions of multiple mechanisms at multiple spatio-temporal scales. Various processes of self-organization make that the concepts of “innate” or “acquired” are not adequate tools for explanation: what is needed is a shift from reductionist to systemic accounts. To address this challenge, it is insightful to build and experiment with robots that model the growing infant brain and body. This type of work can help explain how new patterns form in sensorimotor, cognitive, and social development. This complements traditional experimental methods in psychology and neuroscience where only a few variables can be studied at the same time. This also provides tools to model the mechanisms of development, going further than simply identifying correlations among variables in black-box statistical studies. Moreover, work with robots has enabled researchers to consider the body as a variable that can be systematically changed to study the impact on skill formation, something developmentalists could only dream about decades earlier.

More generally, work with developing robots has shed new light on development as a complex dynamical system, leading to formal models that integrate mathematics, algorithms, and robots.

(Event 2-024) Paper Symposium

Grand Salon Room 12
Friday, 12:30pm-2:00pm

2-024. The Development of Responsiveness to Optic Flow across the First Year of Life

Chair: *David Lee*

- The Effects of Optic Flow on Tactilely-Elicited Neonatal Stepping
Marianne Barbu-Roth, *David Anderson, Aurélie Saulton, Viviane Huet*
- Crawling and Non-Crawling Infants' Responsiveness to Downward Slope Traversal in a Virtual Moving Room
Ichiro Uchiyama, *Moeko Ueno, Joseph J. Campos, David Anderson, Audun Dahl*
- Walking Onset Leads to an Increase in Responsiveness to Peripheral Lamellar Optic Flow
Minxuan He, *Joseph J. Campos*
- Functional Brain Development of Optic Flow Perception in Full-Term and Preterm Infants
Audrey van der Meer, *Seth B. Agyei, Kenneth Vilhelmsen, Ruud van der Weel*

(Event 2-025) Paper Symposium

Grand Salon Room 9
Friday, 12:30pm-2:00pm

2-025. Neural correlates of action from infancy to early childhood

Chair: *Nathan Fox*

- From action to abstraction: Tracing the neural correlates of social behavior from infancy to early childhood
Courtney Filippi, *Erin Cannon, Nathan Fox, Samuel Thorpe, Amanda Lea Woodward*
- Neural correlates of motor learning in infants
Kathryn Yoo, *Samuel Thorpe, Nathan Fox*
- Examining mu rhythm in relation to infant communicative development
Virginia C. Salo, *Meredith L. Rowe, Samuel Thorpe, Nathan Fox*
- An Examination of EEG Mu Rhythm Suppression in 6- to 9-Week-Old Infants
Kimberly Cuevas, *Lauren Bryant*

FRIDAY

Friday, 2:00pm-3:00pm

(Event 2-026) Presidential Address

Grand Ballroom Salon A&B

Friday, 2:00pm-3:00pm

2-026. Oh, Behave!

Chair: *Kathy Hirsh-Pasek*

Speaker: *Karen E. Adolph*

Description: TBD

Biography: Karen E. Adolph is Professor of Psychology and Neuroscience at New York University. She received her B.A. from Sarah Lawrence College, her Ph.D. from Emory University, and completed a postdoctoral fellowship at the Albert Einstein College of Medicine. Adolph leads the Databrary.org project to enable video data sharing and reuse among developmental scientists. She is a Fellow of APA and APS and President of the International Congress of Infant Studies. She received the Cattell Sabbatical Award, APF Fantz Memorial Award, APA Boyd McCandless Award, ISIS Young Investigator Award, FIRST and MERIT awards from NICHD, and five teaching awards from NYU. She chaired the NIH study section on Motor Function and Speech Rehabilitation and serves on the Advisory Board of the McDonnell Foundation, the Board of Directors of the International Society for Ecological Psychology, and the Editorial Boards of Developmental Psychobiology, Developmental Science, and the Journal of Motor Learning & Development. Adolph's research examines effects of body growth, exploratory activity, environmental and social supports, and culture on perceptual-motor learning and development.

Friday, 3:15pm-4:45pm

(Event 2-027) Special Event

Grand Salon Room 21 & 24

Friday, 3:15pm-4:45pm

2-027. How To Land That New Job (And How Not To)

Presenters: *Wallace E. Dixon, Jr., Martha Arterberry, Keith Crnic, H. Hill Goldsmith, Laura Scaramella, Marsha Weinraub*

The International Congress on Infant Studies (ICIS) joins forces with the Council of Graduate Departments of Psychology (COGDOP) to provide young ICIS scholars a unique opportunity to gain advice from acting Department Chairs about how best to write cover letters, select good referees, negotiate for job offers, secure competitive start-up allowances, and manage many other elements of the very anxiety-provoking process of landing a new job. In this Q&A panel format, multiple Department Chairs representing institutions ranging in size from very small to very large, and from private to public, will answer questions and give advice based on their several decades of combined experience negotiating and making jobs offers from the other side of table. This panel symposium should be of great interest to graduate students in all years of study, post-doctoral fellows, and even more seasoned professionals who are thinking of re-entering the academic job market.

(Event 2-028) Paper Symposium

Grand Salon Room 15 & 18

Friday, 3:15pm-4:45pm

2-028. Intersections between negative affect and attention: Implications for emotional development

Chair: *Maria Gartstein*

- Emerging Relations between Attention to Threat and Negative Affect in the First two Years of Life
Koraly Perez-Edgar, Kristin Buss, Vanessa LoBue, Brad Taber-Thomas, Elizabeth Allen, Kayla M Brown
- Attentional response to emotion faces is modulated by infant temperament
Ross E Vanderwert, Sarah Anne McCormick, Perry Dinardo, Alissa Westerlund, Charles A. Nelson
- Infant Temperament and Early Caregiving are Related to Anxiety at 36 Months
Martha Ann Bell
- Disengagement from visual stimuli in infancy: Comparing "long" and "short" lookers
Natalia Potapova, Maria Gartstein

FRIDAY

(Event 2-029) Paper Session

Grand Salon Room 12
Friday, 3:15pm-4:45pm

2-029. Speech Perception and Production in Infancy

Chair: *Drew Hamilton Abney*

- The multiscale clustering of infant vocalization bouts
Drew Hamilton Abney, *Anne S Warlaumont, D. Kimbrough Oller, Sebastian Wallot, Chris T. Kello*
- Infants' oral gestures influence their auditory speech perception.
Mélanie Hoareau, *Jovana Pejovic, Henny Yeung*
- The role of showing and pointing in the vocabulary growth of children aged 8-15 months
Amy Bidgood, *Thea Cameron-Faulkner, Samantha Durrant, Michelle Peter, Caroline Rowland*
- Learning to speak the tauG way
David N Lee, *Maya Gratier*

(Event 2-030) Paper Symposium

Grand Salon Room 9
Friday, 3:15pm-4:45pm

2-030. Motor Development in Infants at Risk: Negative Outcomes, Early Diagnosis, and Intervention

Chair: *Michele Lobo*

- Development of Postural Control and Language in Infants With and Without Risk of Autism Spectrum Disorders
Nina Bel Leezenbaum, *Jana Marie Iverson*
- Object Exploration in Typically Developing and At-Risk Infants: Developmental Patterns and Possible Interventions
Iryna Babik, *Naimisha Movva, Michele Lobo*
- Motor Performance in Infants With Down Syndrome and a Body-Weight Support System for Intervention
Elena Kokkoni, *James Cole Galloway*
- Spontaneous and Purposeful Movements of the Upper and Lower Extremities in Infants With and Without Perinatal Stroke
Jill Heathcock, *Danielle Capetillo, Emily Durbak*

(Event 2-031) Paper Session

Grand Salon Room 6
Friday, 3:15pm-4:45pm

2-031. Predictors of Emotional Regulation and Dysregulation in Infancy

Chair: *Margaret Swingler*

- Probing the link between attention and emotion regulation: Effects of early maternal behavior and infant neural processes
Margaret Swingler, *Nicole B Perry, Susan D Calkins, Martha Ann Bell*
- Physiological and Behavioral Dysregulation across the First Year of Infant Life
Emily K. Ross, *Lauren E. van Huisstede, Keith Crnic, Linda Luecken, Nancy Gonzales*
- Maternal Intrusiveness and Patterns of Infant Respiratory Sinus Arrhythmia in Response to Maternal Engagement and Disengagement
Netta Admoni, *Susan Woodhouse*
- Moment-to-Moment Bidirectional Associations between Maternal Support and Child Dysregulation in a Challenging Situation
Niyantri Ravindran, *Daniel Berry, Nancy McElwain*

(Event 2-032) Paper Symposium

Grand Salon Room 3
Friday, 3:15pm-4:45pm

2-032. Toddlers on Touchscreens: The Effects of Interactive Media on Executive Function and Learning

Chair: *Nick Antrilli*

- Immediate Effects of Touchscreen Media Use on Toddlers' Executive Functioning
Brittany Huber, *Jordy Kaufman*
 - The Effects of Interactivity on Young Children's Word Learning
Georgene Troseth, *Colleen Russo, Almaz Mesghina*
 - From Playgrounds to Touchscreens: Effects of Physical Play and Gaming Styles on 2-Year-Olds' Executive Function
Nick Antrilli, *Su-hua Wang*
 - Toddlers' Object Retrieval Using Touchscreens: The Role of Working Memory Skills
Koeun Choi, *Heather L. Kirkorian, Tiffany A. Pempek, Roxanne A. Etta*
-

FRIDAY

(Event 2-033) Paper Symposium

Grand Salon Room 13
Friday, 3:15pm-4:45pm

2-033. Incorporating Memory Processes in the Study of Early Language Acquisition

Chair: *Jessica Hay*

- The Role of Memory in Statistical Learning Over Development
Rebecca Gomez
- The Longevity of Statistical Learning: Can Infants Remember the Sequential Statistics of Speech?
Ferhat Karaman, Jessica Hay
- Multiple Domains of Memory Development Support Infants' Cross-Situational Statistical Learning
Haley Vlach, Catherine A DeBrock
- Memories for Object Features and Spatial Location Bolster Early Word Learning
Megan G. Lorenz, John P Spencer, Larissa K Samuelson

(Event 2-034) Paper Session

Grand Salon Room 16
Friday, 3:15pm-4:45pm

2-034. Infants' Sensitivity to Rules, Regularities, and Cues

Chair: *Katharine Graf Estes*

- Visual statistical learning: Can infants recognize what they've learned when information is missing?
Katharine Graf Estes, Dylan Antovich
- 8-Month-Old Infants Create Hierarchical Rules to Support Learning and Generalization in Novel Contexts
Denise Werchan, Anne Collins, Michael J Frank, Dima Amso
- Pupil dilation probes the representations of same and different in infancy
Jean-Rémy Hochmann, Juan Manuel Toro
- If we belong to the same linguistic group, I am more likely to predict your actions. An EEG study with 6-month-old infants
Marc Colomer, Andrea Riquelme, Núria Sebastián-Gallés

(Event 2-035) Poster Symposium

Grand Ballroom Salon C&D_(Exhibit Hall)
Friday, 3:15pm-4:45pm

2-035. The ontogeny of empathy and prosocial behaviors has its roots in infancy

Chair: *Elena Geangu*

- Experience Facilitates the Emergence of Sharing Behavior among 7.5-month-old infants
Jing Xu, Jessica Sommerville
- The neural correlates of processing peers emotions in 8-month-old infants
Elena Geangu, Maria Magdalena Crespo-Llado
- Infant predictors of childhood social competence: The role of temperament and neural correlates of emotion-perception
Lindsay C. Bowman, Sarah Anne McCormick, Alissa Westerlund, Perry Dinardo, Anna M. Zhou, Charles A. Nelson

(Event 2-036) Poster Session

Grand Ballroom Salon C&D (Exhibit Hall)
Friday, 3:15pm-4:45pm

2-036. Poster Session 7

Attention, Memory, and Learning

- 1 Exploring the Development of Scene Memory During Infancy
Kristine Ann Kovack-Lesh
- 2 Modeling infant's predictive gaze via reinforcement learning
Claire Monroy, Constantinos Mitsopoulos, Denis Mareschal, Sabine Hunnius, Richard P Cooper
- 3 Preverbal infants' use of labels in visual working memory: An eye-tracking study using Delayed Match Retrieval
Allison Fitch, Zsuzsa Kaldy
- 4 Mechanisms of Selective Learning in Toddlers
Ryan Barry, Katharine Graf Estes, Susan Rivera
- 5 Development of Visual Working Memory in 13- to 16-month olds in an anticipatory looking task
Chen Cheng, Zsuzsa Kaldy, Erik Blaser

Cognitive Development

- 6 Acquiring generic knowledge without induction in 18-month-olds
Rubeena Shamsudheen, Gergely Csibra
- 7 The emergence of what where coordination in human infants
Adam Sheya
- 8 The Mapping of Pre-verbal Thought to Language: Infants' Categorization of Goal Paths in Motion Events
Laura Lakusta, Danielle Spinelli

FRIDAY

- 9 Methodology Matters: Malawian Infants Show Differential Categorization with Different Tasks
Kim Theresa Ferguson, *Marianella Casasola*
- 10 Unique Contributions of the Quality of the Relationship with Each Parent During Infancy to the Prediction of Executive Functions
Sarah Hertz, **Rachel Perrier**, *Annie Bernier*
- 11 When it Pays off to Take a Look: Four-Month-Old Infants Enhance Gaze Following When Being Rewarded
Christine Michel, *Sabina Pauen*, *Stefanie Hoehl*
- 12 Testing infant's flexibility of perspectives within an ostensive learning context
Vesna Marinovic, *Sebastian Wahl*, *Johannes Bätz*, *Birgit Träuble*
- 13 The seeds of social learning: Infants exhibit more social referencing for plants compared to other objects
Claudia Elsner, *Valentina Fantasia*, *Aleksandra Włodarczyk*, *Annie Wertz*
- 14 Two Eyes for an Eye? Group Membership Modulates Infants' Expectations about Retaliation
Fransisca Ting, *Zijing He*, *Renee Baillargeon*
- Communication and Language**
- 15 Structured variation in speech to typically and non-typically developing toddlers
Luca Onnis, **Anna Truzzi**, *Paola Venuti*, *Arianna Bentenuto*, *Shimon Edelman*, *Gianluca Esposito*
- 16 Neologisms And How They May Help: A Case Study of a Girl With Autism Spectrum Disorder
Nancy Narva Soja, *Matthew Goodwin*, *Letitia Naigles*
- 17 The roles of early language environment and language skills on infants' visual attention to faces
Natsuki Atagi, *Tawny Tsang*, *Scott Johnson*
- 18 Comparison of Gestures across Contexts: Gesture Types, Functions, and Coordinated Vocalizations
Stacy Shumway Manwaring, *Laurie Swineford*, **Audrey Thurm**
- 19 Maternal uptake of infant pointing predicts subsequent pointing frequency
Ebru Ger, *Nazli Altinok*, *Ulf Liszkowski*, *Aylin Küntay*
- 20 Children Adopted From China: A Prospective Study of Their Cognitive and Language Development
Nancy Jane Cohen, *Fataneh Farnia*, *Kyla McDonald*
- 21 Brain responses reveal the impact of protolexicon on prosodic processing
Linda Garami, *Anett Ragó*, *Ferenc Honbolygó*, *Valéria Csépe*
- 22 Understanding other's (mis)understanding by 14-month-olds
Balint Forgacs, *Eugenio Parise*, *Gergely Csibra*, *Judit Gervain*
- 23 Examining Referential Uncertainty in Naturalistic Contexts from Child's View: An Eye-Tracking Study with 12-month-olds
Yayun Zhang, *Chen Yu*
- 24 The Development of Colour Word Knowledge in Infants and Toddlers
Samuel Forbes, *Kim Plunkett*
- 25 The role of storybooks and screen media exposure on children's language development
Gemma Taylor, *Padraic Monaghan*, *Gert Westermann*
- 26 MetaLab: Supporting Power Analysis and Experimental Planning in Developmental Research
Sho Tsuji, *Molly Lewis*, *Christina Bergmann*, *Mika Braginsky*, *Page Piccinini*, *Michael C. Frank*, *Alejandrina Cristia*
- 27 Infants' use of conflicting auditory and visual information when categorizing speech
D. Kyle Danielson, *Cassie Tam*, *Padmapriya Kandhadai*, *Janet F. Werker*
- 28 Distractions and Delays in Verb Learning: Does Alignment Help?
Jane B. Childers, *Shelly Gordon*, *Tyler Howard*
- Developmental Neuroscience**
- 29 Neural Mechanisms Associated with Spatial Orienting and Infant Visual Attention
Alexandra C. Romano, *Alexa L. Stumpe*, *Kelly C. Roth*, *Erin M. Nance*, *Michael C. Stephanides*, *Greg D. Reynolds*
- 30 Infant Visual Attention and Covert Orienting at 4 and 6 Months of Age
Greg D. Reynolds, *Kelly C. Roth*, *Alexa L. Stumpe*, *Alexandra C. Romano*, *Michael C. Stephanides*, *Erin M. Nance*
- 31 Test-retest reliability of infant ERPs evoked by faces
Nicolette Munsters, *Carlijn van den Boomen*, *Heleen van Ravenswaaij*, *Chantal Kemner*
- 32 The name game: An ERP investigation of the effects of unique labels on face perception at 6 and 9 months of age
Hillary Hadley, *Lisa Scott*
- Emotional Development**
- 33 Intervention Differentially Impacts Mother-Child and Father-Child Interactional Quality: Findings from the Baby Elmo Intervention
Hannah Ayasse, *Caroline Musslewhite*, *Carole Shauffer*, *Benjamin Richeda*, **Rachel Barr**
- 34 An eyetracking investigation of attentional biases towards threatening and happy faces
Jessica Burris, *Susan Rivera*

FRIDAY

- 35 Fathers With Non-Traditional Parenting Attitudes Buffer Maternal Anxiety During Pregnancy
Mona Khaled, Ann B. Tsai, Hannah Lyden, Sarah Stoycos, Geoffrey Corner, Darby Saxbe
- 36 Modulation of Spatial Attentional Orienting by Threat-relevant Stimuli in Infancy
Julie Bertels, Clémence Bayard, Arnaud Destrebecqz
- 37 Emotion Processing in Infancy: Early Negativity Bias
Alison Rae Heck, Ramesh S. Bhatt
- 38 Negative Parenting Moderates the Relation between Infant Negative Affect and Subsequent Approach
Jacob Holzman, Bianca Hernandez, Gabriela Lelakowska, Matthias Miller, Annalise Farina, Leanna D. Rosinski, Elizabeth Augsburg, David Bridgett
- 39 Self-regulatory benefits of early effortful and fearful inhibition for infants high in temperamental approach
Mairin E. Augustine, Kameron J. Moding, Cynthia Stifter
- 40 Infant Characteristics and Promotion of Sensitive Responding: Effects on Parent-to-Infant Attachment
Amy O'Neill, Kimberley Swigger, Linda Feldman, Valerie Kuhlmeier
- 41 Infant Approach and Withdrawal: A Precursor to Curiosity in Childhood
Katharine E Grills, Penina M. Backer, Cynthia Stifter

Motor and Sensorimotor Processes

- 42 How infant's motor activity changes during mother-infant interaction ?
Céline Scola, Marie Bourjade, Mathilde Cellier, Marianne Jover
- 43 How prior evaluation of infants' motor skills relates to parents' infant-directed actions
Marlene Meyer, Johanna E. van Schaik, Camila van Ham, Sabine Hunnius
- 44 Learning to Grasp and Extract Affordances in Infancy: The Integrated Learning of Grasps and Affordances (ILGA) Model
James Bonaiuto, Michael A Arbib
- 45 Walk to the Beat: The effect of bipedal locomotion on infant ability to move in time with music
Sinead Rocha, Victoria Southgate, Denis Mareschal
- 46 Effects of restricted movement on sitting and object exploration in infancy
Juliana Zaloom, Lana Karasik, Catherine S. Tamis-LeMonda, Karen E. Adolph
- 47 Adaptive Use of Handled Tools by Young Children
Emily Ann Lewis, Nicholas E Fears, Alicia L Swearingen, Tara P Kini, Jeff Lockman
- 48 Tool-Use for Self-Feeding in Infancy
Nicholas E Fears, Emily Ann Lewis, Bjorn Kahrs, Jeff Lockman

- 49 Heart rate responses to self-directed touch in preterm human infants
Scott R. Robinson, Riana L Hoagland, Melissa Truong, Valerie Mendez-Gallardo

Pediatric Issues, Psychopathology and Developmental Delay

- 50 Impact of neonatal risk and temperament on behavior problems of toddlers born preterm
Rafaela Guilherme Monte Cassiano, Cláudia Maria Gaspardo, Doane Sábio Servidone, Juliana Cunha Lima Rodrigues, Guilherme Cordaro Bucker Furini, Ricardo Augusto de Deus Facioli, Francisco Eulógio Martinez, Beatriz Linhares
- 51 Opioid Exposure during Pregnancy is Associated with Reduced Brain Tissue Volumes on Neonatal MRI
Lianne Jane Woodward, Carole Spencer, Richard Watts, Simon K Warfield
- 52 An International Study of Preterm Birth and Development of Children Born Through Surrogacy
Kate Ellis-Davies, Henny Bos, Mathilde Brewaeys, Michael Lamb, Loes van Gelderen, Ron Poole-Dayana
- 53 Paternal versus maternal involvement: The role of parental perceptions of child temperament and impact on child psychopathology
Oana Benga, Georgiana Susa Erdogan, Gabriela Fechete

Perception

- 54 The Onset of Sensitivity to Uncrossed Horizontal Disparity in Infancy
Stephanie Katharina Braun, Carl E. Granrud, Michael Kavšek
- 55 Sensitivity to 2D and 3D Information in 9-mo Infants: Haptic Exploration of Depicted Images and Their Real Object Counterparts
Sarah Shuwairi
- 56 Infants Perceive Stereoscopic Illusory Contours
Michael Kavšek, Stephanie Katharina Braun
- 57 Perception of facial attractiveness: Evidence for a common mechanism in human and macaque infants?
Fabrice Damon, David Méary, Paul C. Quinn, Kang Lee, Elizabeth Ann Simpson, Annika Paukner, Stephen J Suomi, Olivier Pascalis
- 58 Age Differences in Infants' Visual Preference for Female Faces
Jennifer Rennels, Andrea J Kayl, Andrew J Cummings, Krystal Kamekona, Kirsty Kulhanek
- 59 Individual Differences in Growth Rate of Intersensory Processing are Related to Early Language Skills
Kasey C. Soska, James Torrence Todd, Lorraine Bahrck

Social Development

- 60** Contextual influences on Joint Attention skills: new directions from research on Autism Spectrum Disorder
Roberta Fadda, *Giuseppe Doneddu, Congiu Sara, Ferretti Luca, Gessica Saba, Donatella Serra, Tricia Striano*
- 61** Toddlers in their Developmental Niche: The Association between Toddlers' Temperament and Behavior Problems across Cultures
Ibrahim Acar, *Amanda Prokasky, Sara Casalin, Maria Gartstein, Zhengyan Wang, Emine Ahmetoglu, Roseriet Beijers, Georgiana Susa, Carmen Gonzalez-Salinas, Sae-Young Han, Blanca Huitron, Beatriz Linhares, Mirjana Majdandzic, Rosario Montiroso, Sam Putnam, Kati Heinonen, Helena Slobodskaya*
- 62** Mother-Infant Person- and Object-directed Interaction in South Korean, Korean Immigrant, and European American Dyads
Linda R. Cote, *Marc H. Bornstein*
- 63** Infant sleeping arrangements and mother-infant well-being in nine Asian, European, North and South American countries
Peipei Setoh, **Lijun Zhang**, *Anna Truzzi, Gianluca Esposito*
- 64** Toddler Distress as a Predictor of Empathy at 36 Months: Moderation by Maternal Depressive Symptoms and Worry
Julie Premo, *Keshia B. Wagers, Elizabeth Kiel*
- 65** Does Concordance Matter? Analyzing Dyadic OXTR Polymorphism in Relation to Maternal Depression and Child Responsiveness
Ryan M Asherin, *Kevin D Everhart, Jo M Vogeli, Peter S Kaplan*
- 66** Effectiveness of Mary Ainsworth's Maternal Sensitivity Scale with Four-week-old Infants
Laurel Anne Teaford Yorgason, *Lois Muir*
- 67** Maternal Depressive Symptoms, Emotional Availability at Bedtime, and Toddler Temperament Influence the Development of Attachment
Ni Jian, *Douglas Michael Teti*
- 68** Pupillary Contagion in Infancy: Evidence for spontaneous transfer of arousal
Christine Fawcett, *Victoria Wesevich, Gustaf Gredebäck*
- 69** Toddlers involve their caregiver to help another person in need
Chris Moore, *Markus Paulus*

2-037. Comparative and Developmental Approaches to Social Cognition

Moderator: *Valerie Kuhlmeier*

Presentation 1: The Evolution Origins of Theory of Mind?:

New Insights into Infant Theory of Mind from Non-Human Primates

Speaker: **Laurie Santos**

Abstract: How do we come to represent the thoughts, beliefs, and intentions of other people? Over the past decade, researchers have made great strides in developing non-verbal methods for studying both the ontogenetic and phylogenetic origins of human mental state representations. This recent work has come to suggest an important divide between the representations that human infants use to think about other minds and those used by nonhuman primates: while human infants show evidence of representing others' beliefs, to date nonhuman primates have not. However, other species do show a sophisticated ability to track others' current and past perceptions. In my talk, I'll explore what this pattern means for the origins of theory of mind representation more generally. I'll argue that nonhuman primates may possess a phylogenetically-old system for tracking other individuals' informational relations between agents and true (but not false) information. I'll then discuss how this view accounts both for nonhuman primates' performance in a range of theory of mind tasks as well as what it means for developmental accounts of infants' early theory of mind representations.

Presentation 2: The Emergence of Human Cooperation:

Evidence from Young Children and Chimpanzees

Speaker: **Felix Warneken**

Abstract: Humans are able to cooperate with others in sophisticated, flexible ways: sharing valuable resources, assisting others who need help, and working together in teams to produce outcomes that lie beyond the capabilities of any one individual. But what psychological processes allow this variety of cooperative behaviors to emerge in humans? I will present a framework that derives hypotheses from evolutionary theory about the fundamental psychological processes that enable human cooperation. Specifically, I propose that for cooperation to evolve, individuals need a psychological machinery that solves to problems: identify and create opportunities for cooperative interactions with others (creating benefit) and mechanisms to solve the free-rider problem to sustain cooperation as a viable strategy (distributing benefit). I will present empirical studies with children examining the ontogenetic origins and development of these two sets of processes. In particular, while infants and toddlers already possess basic skills to help others and share valuable resources, social norms and social experience begin to influence children's cooperation in later ontogeny. These results are complemented by studies with chimpanzees to illuminate the extent to which these abilities are unique to humans, or shared with our evolutionary relatives. I conclude with a proposal of how this framework motivates new developmental, comparative, and cross-cultural research to shed light on the ontogenetic and phylogenetic roots of the psychological abilities underpinning human cooperation.

Friday, 5:00pm-6:30pm

(Event 2-037) Invited Views by Two

Grand Salon Room 15 & 18

Friday, 5:00pm-6:30pm

(Event 2-038) Invited Views by Two

Grand Salon Room 21 & 24

Friday, 5:00pm-6:30pm

2-038. Language Learning in Multiple Language Contexts

Moderator: *Marianella Casasola*

Presentation 1: Starting over: What Internationally Adopted Children Tell Us About How All Children Acquire Language

Speaker: **Jesse Snedeker**

Abstract: Language development is marked by a predictable sequence of milestones. First, infants use single words for objects, people and social routines. Next they begin combining two or three words to make telegraphic sentences. Then they gradually acquire the grammatical resources of their language and begin to express more complex propositions. Why does language develop in this way? One possibility is that the sequence reflects cognitive and neural development: perhaps, as the child matures, she gains the ability to create more complex conceptual and linguistic representations and this is directly reflected in her speech. A second possibility is that the sequence results from the nature of the problem itself. Language may be a puzzle that can only be solved if we work through these steps, in this order. To explore this question, we have tracked the acquisition of English in internationally-adopted preschoolers. These children are in a unique situation. Like infants they acquire language from child-directed speech. Unlike most second language learners they do not maintain their first language and have little or no access to bilingual informants. But they are clearly older and more cognitively advanced than infant learners. We find that many (but not all) of the features of infant language development are present in these preschoolers, suggesting that the patterns are reflections of the learning process rather than maturation or cognitive development. This infant-like learning pattern begins to change at around 4 years of age. I'll discuss how this might relate to the critical period hypothesis.

Presentation 2: The Culture of Communication

Speaker: **Catherine S. Tamis-LeMonda**

Abstract: Culture infuses all aspects of communication, including the words, phrases, gestures, facial expressions, and body movements that characterize the social interactions of everyday life. Infants do not grow up in stark white laboratories where speech sounds, words, objects and actions are slowly and systematically presented in the absence of distractions. Rather, infants must make sense of meanings that are buried in an incessant barrage of sounds, sights, smells, tastes and touches as they participate in cultural activities of bathing, eating, play, book reading and so forth. Consequently, developmental scientists have long recognized the need to combine the meticulous rigor of experimental research with the study of everyday learning. In this presentation, I describe variations in infant-caregiver communicative interactions during naturalistic home observations in dyads from different ethnicities within and outside the United States – including infants from European American, Mexican immigrant, Dominican immigrant, African-American and Chinese backgrounds, and infants from communities outside the United

States, including China, Tajikistan Kenya, and Cameroon. This cultural approach highlights the striking variability that characterizes infants' communicative worlds in terms of how much language infants hear, the extent to which gestures are used to communicate intention, the content, diversity and contingency of language, the social partners of communication, and how language is temporally distributed across everyday routines. In turn, these cultural variations play out in infants' emerging skills, ranging from how much infants use gestures and vocalizations to communicate and the extent to which they understand and respond to the gestures and language of social partners.

Friday, 6:30pm-8:00pm

(Event 2-039) Reception

Chemin Royale & Exhibit Hall

Friday, 6:30pm-8:00pm

2-039. Presidential Reception - all attendees welcome!

All attendees are encouraged to attend this social event! Connect with old and new friends and colleagues as you enjoy refreshments. Cash bars will be available.

SATURDAY

Saturday, 8:30am-10:00am

(Event 3-001) Invited Symposium

Grand Salon Room 21 & 24

Saturday, 8:30am-10:00am

3-001. Methods and Meanings: New Insights Into Infant Emotional Processes

Chair: *Koraly Perez-Edgar*

Integrative Statement: At first blush, our ability to identify emotional responses seems quite obvious, since we all experience and are exposed to a myriad of emotions every day. However, emotions become scientifically elusive when we try to define them in the laboratory. Despite being a popular research topic among neuroscientists, social psychologists, developmental psychologists, and clinicians, there is no single agreed-upon definition of what an emotion is, and similarly, no consistent methods for measuring emotions across disciplines. Feldman Barrett (2016) suggested, "If we want to know whether a person is experiencing an emotion, we have to ask them" (p. 24). While infants are not very good at answering questions, an emerging synthesis of behavioral and neurophysiological methods suggests multiple, potentially converging levels of analysis for investigating infant emotional life and development. Here we present the work of two researchers who use new and innovative behavioral and physiological methods for studying emotions in infancy. Koraly-Perez Edgar (Penn State University) will present research using parental report, laboratory observation, and eye-tracking technology to measure infants' emotional behaviors and how these behaviors may predict the development of anxiety. Daniel Messinger (University of Miami) will present research using objective (automatic measurement) and subjective (ratings) of infant facial expressions to study emotional and interaction dynamics in infancy.

- Finding the Core of Emotion: Parental Report, Laboratory Observation, and Infant Behavior
Koraly Perez-Edgar
- Measuring Emotional Process: Objective, Subjective, and Automated Approaches
Daniel Messinger

(Event 3-002) Paper Symposium

Grand Salon Room 15 & 18

Saturday, 8:30am-10:00am

3-002. Critical Periods: The Influence of Intersensory and Sensorimotor Interactions

Chair: *Daphne Maurer*

- Auditory Cortex Plasticity following Hearing Loss in Infancy Underlies Enhanced Visual Abilities of the Deaf
Stephen C. Lomber, M. Alex Meredith, Andrej Kral
- The Neural Underpinnings of Visual Critical Periods: New Evidence from Adults treated for Bilateral Congenital Cataracts
Daphne Maurer, Sidney Segalowitz, Xiaoqing Gao, Olivier Collignon, Yi-Chuan Chen, Terri L. Lewis
- Are Sensitive Periods in Speech Perception Development Multisensory?
Janet F. Werker, Allison G. Bruderer, D. Kyle Danielson, Padmapriya Kandhadai

(Event 3-003) Paper Session

Grand Salon Room 12

Saturday, 8:30am-10:00am

3-003. Social Risk Factors and Early Indicators of Autism Spectrum Disorder in Infancy

Chair: *Jennifer B. Wagner*

- Smiling is Present but Non-Contingent in 2- to 5-Month-Old Infants Later Diagnosed with Autism Spectrum Disorder
Rachel Sandercock, Warren Jones, Ami Klin, Sarah Shultz
- Parental Stress and Proband Mental Health as Predictors of Mental Health in Toddlers at High-Risk for Autism Spectrum Disorders
Kristelle Hudry, Katherine` Crea, Cheryl Dissanayake
- Gaze and Pupil Responses to Familiar and Unfamiliar Faces in Infants at High and Low Risk for Autism
Jennifer B. Wagner, Helen Tager-Flusberg, Charles A. Nelson
- Dissociable components of imitation are linked to cognitive functioning in typical and atypical social development
Giacomo Vivanti

SATURDAY

(Event 3-004) Paper Symposium

Grand Salon Room 9
Saturday, 8:30am-10:00am

3-004. Cognitive and motivational underpinnings of early helping behavior

Chair: *Moritz Köster*

- Infants understanding of others' needs as a universal precursor of early helping behavior
Moritz Köster, Shoji Itakura, Joscha Kärtner
- Infants expect helpers but not hinderers to carry out fair distributions of resources
Luca Surian, Marek Meristo, Mika Ueno, Shoji Itakura
- The imitation of prosocial behavior by 15-month-olds – How toddlers learn to help others
Nils Schuhmacher, Moritz Köster, Joscha Kärtner
- Flexibility in children's intrinsic motivation to help others
Robert Hepach, Amrisha Vaish, Katharina Müller, Michael Tomasello

(Event 3-005) Paper Symposium

Grand Salon Room 6
Saturday, 8:30am-10:00am

3-005. Early sex differences and the development of psychopathology

Chair: *Rachael Bedford*

- Differential sex effects in the relationship between infant risk markers and later psychopathology
Rachael Bedford, Emily Jones, Mark Johnson, Tony Charman, Teodora Gliga
- Fetal programming effects of sex steroids in autism and psychopathology
Bonnie Auyeung, Michael Lombardo
- Sex differences in pre- and post-natal maternal depression matching and children's NR3C1 1-F methylation and affective symptoms
Jonathan Hill, Helen Sharp, Nicola Wright, Andrew Pickles, John Quinn, Chris Murgatroyd
- Enhanced social attention in female infant siblings at risk for autism
Kasia Chawarska, Suzanne Macari, Fred Shic, Kelly Powell, Lauren DiNicola

(Event 3-006) Paper Session

Grand Salon Room 3
Saturday, 8:30am-10:00am

3-006. Attention and Gaze Following in Infants

Chair: *Catalina Suarez-Rivera*

- The Social Origins of Sustained Attention
Catalina Suarez-Rivera, Linda Smith, Chen Yu
- Two-year-olds Follow Adults' Pointing Gestures more than Peers': Exploring Communicative Skills Through Peer Interactions
Gregor Stöber, Richard Thomas Moore, Robert Hepach, Michael Tomasello
- Neonatal imitation and early social experience predict gaze following abilities in infant monkeys
Annika Paukner, Grace Maloney, Pier Francesco Ferrari, Stephen J Suomi, Elizabeth Ann Simpson
- False-positive Responses to Ostensively Presented 'Eyeless Gaze-shift' Stimuli in Human Infants and Adults
Mikolaj Hernik, Gergely Csibra

(Event 3-007) Paper Symposium

Grand Salon Room 13
Saturday, 8:30am-10:00am

3-007. Prematurity: Early diagnosis, intervention, and long-term outcomes

Chair: *Audrey van der Meer*

- Exploring cerebello-cortical and cortico-cerebellar connectivity in infants and children born preterm
Jeroen Dudink, Kay Pieterman, Freek Hoebeek
- Early development of very young premature infants: Effects of feeding method and neurological vulnerability
Ronny Geva, Yedidya Hendel, Iris Morag
- Longitudinal study of preterm and full-term infants: High-density EEG analyses of cortical activity in response to visual motion
Seth B. Agyei, Ruud van der Weel, Audrey van der Meer
- Working memory training-induced neuroplasticity in children who were born extremely preterm
Chieh-En Tseng, Leona Pascoe, Gehan Roberts, Lex W. Doyle, Katherine J. Lee, Deanne K. Thompson, Marc L. Seal, Elisha K. Josev, Susan Gathercole, Peter J. Anderson, Chiara Nosarti

SATURDAY

(Event 3-008) Paper Session

Grand Salon Room 16
Saturday, 8:30am-10:00am

3-008. Infant Perception of Language

Chair: *Linda Polka*

- Learning Vowels from Multimodal, Auditory or Visual Information: Effects on Infants' Looking Patterns and Discrimination
Sophie ter Schure, Caroline Junge, Paul Boersma
- Unfamiliar talker recognition: a challenging task for 16-month-olds
Natalie Fecher, Melissa Paquette-Smith, Katrina Aranas, Elizabeth K. Johnson
- Infants prefer vowels with infant vocal resonances - evidence for an experience-based "articulatory filter"
Linda Polka, Matthew Masapollo, Lucie Menard
- Read My Lips: Articulatory movements enhance infants' word recognition
Drew Weatherhead, Katherine White

(Event 3-009) Poster Symposium

Grand Ballroom Salon C&D_(Exhibit Hall)
Saturday, 8:30am-10:00am

3-009. Maternal trauma and biological processes in infancy and early childhood: An integrated approach

Chair: *Brendan Dale Ostlund*

- Methylation of FKBP5 in infancy: Interaction between maternal history of stress and placental methylation of HSD11 β 2
Brendan Dale Ostlund, Elisabeth Conradt, Carmen Marsit, Barry Lester, Audrey Tyrka
- Attachment disorganization predicts infant inflammation
Jeffrey R Measelle, Jason David, Jennifer Ablow
- Methylation of FKBP5 among preschoolers with adversity: Links with domestic violence
Stephanie Parade, Kathryn Ridout, Ronald Seifer, Carmen Marsit, Audrey Tyrka

(Event 3-010) Poster Session

Grand Ballroom Salon C&D (Exhibit Hall)
Saturday, 8:30am-10:00am

3-010. Poster Session 8

Attention, Memory, and Learning

- 1 Eighteen-month-olds' memory for movies with or without a meaningful storyline
Osman Skjold Kingo, Trine Sonne, Peter Krojgaard
- 2 Relational learning in 3-month-old infants
Erin Morgan Anderson, Yin-Juei Chang, Susan Hespos, Dedre Gentner

- 3 Take a selfie: Toddlers' understanding of the representational function of pictures
Georgene Troseth, Israel Flores, Colleen Russo
- 4 Subtle temporal delays in mothers' responses affect imitation learning in children: Mother-child interaction study
Eriko Yamamoto, Goh Matsuda, Kaori Nagata, Naoko Dan, Kazuo Hiraki
- 5 Playing with Touchscreens: Exploring Individual Differences in Toddlers' Play with Game Apps
Nick Antrilli, Su-hua Wang

Cognitive Development

- 6 Learning multiple rules and words at 8-9 months
Amanda Saksida, Jacques Mehler
- 7 Investigating disjunctive inference in 10 month old infants using pupillometry
Milad Ekramnia, Jacques Mehler
- 8 Are Differences in the Effects of Sticky Mittens Experience on 4-month-olds' Perception of Causality Related to Motor Development?
Nicholas A Holt, Cara Cashon
- 9 Arithmetic in Infancy: A Meta-analysis of Studies Following Wynn (1992)
Joan Christodoulou, Andrew Lac, David S. Moore
- 10 Disjunctive inferences in a visual search task: an eye tracking study with 10-month old infants
Erno Teglás
- 11 Pupillometric measures allow a new look at point comprehension
Wiebke Pätzold, Ulf Liszkowski
- 12 Does social context influence statistical learning of action sequences in infants and adults?
Claire Monroy, Marlene Meyer, Sarah Gerson, Sabine Hunnius

Communication and Language

- 13 Do contingent hotspots support or distract infants from learning a new word from an electronic book?
Gabrielle Strouse, Patricia Ganea
- 14 Impact of early bilingualism on infants ability to learn from the eyes/month region of a talking face
Mathilde Fort, Alba Ayneto, Anira Escrichs, Núria Sebastián-Gallés
- 15 Temperamental extraversion benefits vocabulary development but not word learning: a paradox?
ALBERTO FALCÓN, Mayra Villarreal, Elda Alicia Alva
- 16 Detailing infant vowel development: The influence of language experience on auditory processing
Kathleen McCarthy, Katrin Skoruppa, Paul Iverson
- 17 Assessing Auditory Joint Attention in Toddlers
Katharine Suma, Ashleigh M Kellerman, Sarah E Vogt, Roger Bakeman, Lauren B Adamson

SATURDAY

- 18 Japanese children comprehend null object sentences earlier than pronominal object sentences
Yuko Okumura, *Yuriko Oshima-Takane, Tessei Kobayashi, Michelle Ma, Yuhko Kayama*
- 19 Crosslinguistic Effects of Lexical Stress on Early Word Learning
Nayeli Gonzalez-Gomez, *Roberto A. Abreu-Mendoza, Natalia Arias-Trejo*
- 20 Cross-cultural investigation of parent-infant interaction: who imitates who?
Ameneh Shahaeian, *Virginia P Slaughter, Mark G Nielsen*
- 21 Baby Talk: The Role of Infant- and Adult-Directed Speech In Infants' Identification of Familiar Words
Amber Shoaib, *Jill Lany*
- 22 Chunking the phrase: Acoustic and facial movement cues to word order in Infant- and Adult-Directed Speech
Irene de la Cruz-Pavia, *Judit Gervain, Michael McAuliffe, Eric Vatikiotis-Bateson, Janet F. Werker*
- 23 Maternal infant-directed speech and song is modulated by preterm infant behavior in the neonatal intensive care unit
Maya Gratier, Manuela Fillipa, Emmanuel Devouche, Didier Grandjean
- 24 Communication and social abilities are related to 12-month-old infants' attention to the eyes of a talking face
Ferran Pons, *Laura Bosch, David J Lewkowicz*
- 25 Dynamic changes in infant audiovisual speech matching as a function of vocal productivity
Henny Yeung, *Ferran Pons*
- 26 Tracking frequency at birth: An fNIRS study investigating how neonates segment a continuous stream
Perrine Brusini, *Alissa Ferry, Ana Flo, Marina Nespor, Jacques Mehler*
- 27 Developmental Changes in Neural Activation to Spoken Language and Whistled Surrogate Language across the First Year of Life
Lillian May, *Judit Gervain, Manuel Carreiras, Janet F. Werker*
- 28 What did you say? Exploring toddlers' processing of other children's speech
Dana E Bernier, *Katherine White*

Developmental Neuroscience

- 29 Event-related potentials in urban Bangladeshi children exposed to early adversities
Swapna Kumar, *Alissa Westerlund, Katherine L. Perdue, Charles A. Nelson*
- 30 Using fNIRS to assess social cognition in urban Bangladeshi infants and toddlers
Katherine L. Perdue, *Swapna Kumar, Alissa Westerlund, Sarah Lloyd-Fox, Clare Elwell, Charles A. Nelson*

- 31 The emergence of theory of mind in infancy: An ERP study
Maria Magdalena Crespo-Llado, *Vincent Reid, Elena Geangu*
- 32 Some variability in infant ERPs may be due to the data editing process
Estefania Dominguez-Martinez, *Oscar Portolés Marín, Vincent Reid*

Emotional Development

- 33 The Role of Co-Occurring Infant Vagal Tone and Distress in Predicting Behavior Problems at Preschool: A Person-Centered Approach
Jin Qu, *Esther Leerkes*
- 34 An Examination of the Contribution of Mothers as Referees in Infant Social Referencing
Nicole Martin, *Kylah Pollard, Jade Wilson, M Grant M Grant Greco, Haven Bell, Jasmine Noelle Williams, Abby Livesay*
- 35 Infants Use Facial Expressions to Predict the Expresser's Cooperative Behavior
Toshinori Kaneshige, *Etsuko Haryu*
- 36 Will You Be Angry Too? Infants' Understanding of Other People's Emotional Dispositions
Ashley Ruba, *Betty Repacholi, Andrew Meltzoff*
- 37 Can Infants Match Emotion Expressions to Social Events?
Emma Satlof-Bedrick, *Whitney Waugh, Jesse Drummond, Celia Brownell*
- 38 Touching Behaviors of Depressed and Non-Depressed Mothers During Face-to-Face Mother-Infant Interactions
Marisa Mercuri, *Irene Mantis, Dale M. Stack, Tiffany M. Field*
- 39 Maternal Prenatal Mental Health Comorbidities & Offspring Neonatal Neurobehavior
Jason Michael Gibbs, *Shell Siddall, Joe Neal, Aimee Martin, Nicki Aubuchon-Endsley*
- 40 Infant Emotional Engagement in Face-to-Face and Video Chat Interactions with their Mothers
Elisabeth McClure, *Yulia Chentsova-Dutton, Rachel Barr, Steven Holochwost, W. Gerrod Parrott*
- 41 Infant Physiological Regulation within the Context of the Parent-Infant Relationship: Intrinsic and Extrinsic Predictors
Diane M Lickenbrock, *Angelica Marie Soto-Freita, Manooch Saeedi, Laura Duncan, Lauren Grace Bailes*
- 42 A glimpse into the future: A qualitative study on preparing the mother-of-one for the transition to mother-of-two
Jennifer K Harris, *Sybil Hart*
- 43 Child sex and suppression of respiratory sinus arrhythmia in the still face: Contributions to temperament in 4-month-old infants
Sarah Gray, *Katherine Theall, Christopher W Jones, Stacy Drury*

SATURDAY

Motor and Sensorimotor Processes

- 44 Keep Calm Carry, Mom: A cross-cultural comparison of maternal handling practices
Andrew Vincent Russo, Lana Karasik, Marc H. Bornstein
- 45 Strabism as a risk factor for motor development in the first 4 years of life
Claudia Freitag, Birgit Lorenz, Gudrun Schwarzer
- 46 Spatial Exploration Patterns in Mother-Infant Dyadic Play During the Transition to Independent Locomotion
Sabrina L Thurman, Daniela Corbetta
- 47 Infants' adaptation to a sloping SITUation: Maintaining balance while sitting on a sloping surface
Jaya Rachwani, Kasey C. Soska, Lisa B. Hurwitz, Karen E. Adolph
- 48 Access to Resources affects Infants' Motor Milestones
Do Kyeong Lee, Carmen Jimenez-Robbins, Shohan Hasan, Mary Messito, Rachel Gross, Alan Mendelsohn, Karen E. Adolph

Pediatric Issues, Psychopathology and Developmental Delay

- 49 Challenging behaviors in toddlers in Early Intervention: Does an autism spectrum disorder diagnosis predict increased risk?
Juan Diego Vera, Angel Fettig, Abbey Eisenhower, Alice S. Carter
- 50 Adaptive Functioning in Taiwanese preschool children with Autism Spectrum Disorders
I Chen Chen, Chin-Chin Wu
- 51 Does surgery for congenital heart disease in early infancy affect mother-child synchrony in cortisol physiology?
Brigid Jordan, Roseriet Beijers, Irma Janssen, Monica McGauran, Candice Franich-Ray, Michael Cheung, Carolina de Weerth
- 52 Maternal Prenatal Anxiety is Associated with Children's Health: A Longitudinal Study
Maartje Zijlmans, Roseriet Beijers, Marianne J. Riksen-Walraven, **Carolina de Weerth**
- 53 Infant Indicators of ADHD and Overweight Comorbidity
Katherine M. Musacchio, Brandy R. Anders, **Wallace E. Dixon, Jr.**, Jaima S. Price
- 54 An unexpected journey: Managing care for young children with feeding problems
Ya-Ke Wu, Hayley Henrikson Estrem

Perception

- 55 The neural effect of movement on musical metre perception in 7-month-olds
Laura Cirelli, Christina Spinelli, Sylvie Nozaradan, Laurel Trainor
- 56 Rich Efficient Auditory Representations Present at 3 Months and Mature By 9 Months
Conor J Wild, Annika C Linke, Leire Zubiaurre-Elorza, Charlotte Herzmann, Victor K Han, David SC Lee, Rhodri Cusack

- 57 Configural Face Processing in Newborn Infants
Alyson Hock, Rachel Jubran, Hannah White, Ramesh S. Bhatt
- 58 Familiar Sign Perception in Infants whose Deaf Parents use ASL
Steven Kulsar, Rebecca Stevener, Allyson Pollock, Rory DePaolis, **Brenda Seal**

Social Development

- 59 Infants associate an agent's sociomoral disposition to its internal properties
Hernando Taborda, Ashley Lyons, Erik Cheries
- 60 All together now? How child care providers organize activities for infants and toddlers in mixed-age settings
Holli Tonyan, Jeannette Torres, Elena Paredes, Jessie Bridgewater, Mari Carmen Contreras, Jennifer Escobar, Marissa Garcia, Sarah Malcolm, Jordy Penagos, Christopher Sifuentes
- 61 The Relation between Parents' Socialization Goals and their Reactions to their Child's Temperament Displays in 13 Countries
Mirjana Majdandzic, Oana Benga, Sam Putnam, Soile Tuovinen, Elena Kozlova, Zhengyan Wang, Ibrahim Acar, Roseriet Beijers, Sara Casalin, Maria Gartstein, Noelia Sanchez-Perez, Sae-Young Han, Blanca Huitron, Beatriz Linhares, Rosario Montiroso
- 62 The Influence of Acculturation on Latino Paternal Involvement and Its Effects on Child Outcomes
Angelica Frausto, Julia M. Braungart-Rieker, Elizabeth Planalp
- 63 Infants visually discriminate between dominant and neutral faces
Brandon F. Terrizzi, Jonathan S Beier
- 64 Bedtime for Mommy: Sleep Quality in Mothers with Infants
Kathleen D Dyer, Karena Tuel
- 65 Maternal responses to infants' success and struggle during a puzzle interaction: Links to relationship and family-level factors
Saskia Jade Ferrar, Dale M. Stack, Lisa Serbin, Kathleen Kennedy-Turner, Jane Ledingham, Alex Schwartzman
- 66 Optical Imaging of Infant Brain Activation in Response to Social and Non-social Stimuli during Real Life Interactions
Yoko Hakuno, Laura Pirazzoli, Sarah Lloyd-Fox
- 67 The Effects of Infant Exuberance and Effortful Control on Peer Acceptance in Kindergarten
Alyssa Palmer, Meghan McDaniel, Santiago Morales, Kristin Buss
- 68 Toddlers' selective social behavior toward high-status individuals
Amanda Mae Woodward, Emma G. Larson, Brandon F. Terrizzi, Jonathan S Beier

SATURDAY

Saturday, 10:15am-11:45am

(Event 3-011) Dedicated Session

Grand Salon Room 21 & 24
Saturday, 10:15am-11:45am

3-011. In Honor of Gerald Turkewitz: His Scientific Legacy - Sponsored by Johnson & Johnson Consumer Inc.

Chair: *David J Lewkowicz*

Speakers: *David J Lewkowicz, Robert Lickliter, David S. Moore, Janet F. Werker*

Abstract: To honor Turkewitz, Lewkowicz will begin by reviewing his early work with Turkewitz in neonates and will discuss how this led to his current work on the effects of early experience on multisensory perception. He will show that the multisensory world of young infants is relatively undifferentiated due to sensory limitations and that with the acquisition of experience infants gradually shed their primitive perceptual response mechanisms via perceptual narrowing and differentiation and, consequently, acquire a cognitively and socially meaningful representation of their multisensory world. Lickliter also will discuss Turkewitz's principle of sensory limitations and will show how it guided his research on the prenatal factors that contribute to early perceptual development in birds. He will then suggest that the sensory limitations principle can be applied to the management of high risk preterm infants to ensure their optimal development. Moore will argue that, based on Turkewitz's ideas, we must consider physical mechanisms and the antecedent causes of specific behaviors to understand developmental outcomes. He will then discuss how these insights led him to think about prenatal events, to consider what developmental and molecular biology can teach developmental psychologists, and how this led him to developmental systems theory and behavioral epigenetics. Finally, Werker will discuss her research on the development of infant speech perception to illustrate Turkewitz's three deep and direct influences on her thinking: (1) development begins prenatally and is a multifaceted process, (2) developmental status and timing are key to understanding early experience, and (3) the sensory systems emerge sequentially.

Biography: David J. Lewkowicz is Professor in the Department of Communication Sciences & Disorders at Northeastern University. He investigates infant perceptual and cognitive development with a focus on the development of multisensory processing & sequence learning in object, speech, language, and social perception and is also keenly interested in developmental theory.

(Event 3-012) Paper Symposium

Grand Salon Room 15 & 18
Saturday, 10:15am-11:45am

3-012. Infant risk mechanisms for future behavioral and emotional problems

Chair: *Alison Hipwell*

- Prenatal maternal depression: Accelerated development in fetal neurobehavior and fronto-limbic connectivity in neonates
Jonathan Posner, Jiook Cha, Marisa Spann, Jay Gingrich, Catherine Monk
- Prenatal nutrition: Effects on infant stress reactivity
Kate Keenan, Alison Hipwell, Kelsey Magee, Arpita Mohanty
- Brain-behavior relationships underlying emotional development in infants
Mary Louise Phillips, Amelia Versace, Eydie Moses-Kolko, Vincent Schmithorst, Ashok Panigrahy, Alison Hipwell
- Intergenerational transmission of risk for low positive emotionality in infancy
Alison Hipwell, Julie Beeney, Mary Louise Phillips, Eydie Moses-Kolko, Danielle Verble, Yael Gross, Kate Keenan

(Event 3-013) Paper Symposium

Grand Salon Room 12
Saturday, 10:15am-11:45am

3-013. How real-time processing abilities affect the trajectory of language acquisition

Chair: *Sudha Arunachalam*

- How 5-month-olds encode sequential information during real-time parsing of continuous speech
Ana Flo, Alissa Ferry, Perrine Brusini, Marina Nespor, Jacques Mehler
- When one cue is better than two: trade-off between processing load and informativity in verb learning and verb extension tasks
Angela Xiaoxue He, Jeffrey Lidz
- Processing cost and the acquisition of novel verb meanings
Maxwell Kon, Tilbe Goksun, Sudha Arunachalam
- The acquisition of word meanings: interactions between parsing and learning
Alex de Carvalho, Isabelle Dautriche, Angela Xiaoxue He, Jeffrey Lidz, Anne Christophe

SATURDAY

(Event 3-014) Paper Symposium

Grand Salon Room 9
Saturday, 10:15am-11:45am

3-014. Effort as a bridging concept across action and action understanding

Chair: *Tomer Ullman*

- Infants take recipient wealth and physical effort into account when deciding who to help
Miranda J. Sitch, *Elizabeth A. Ake, Jessica Sommerville*
- Weight and Physical Effort in Predictions of Efficiency in Other Agents
Tomer Ullman, *Joshua B. Tenenbaum, Elizabeth S. Spelke*
- Which one's harder, and who finished first? Young children's understanding of effort and time
Hyowon Gweon, *Mika Asaba*

(Event 3-015) Paper Session

Grand Salon Room 6
Saturday, 10:15am-11:45am

3-015. Developmental Neuroscience

Chair: *Kristi Hendrickson*

- Temperamental traits affect emotional expression processing of static and dynamic faces: an ERP study with 7-month-old infants
Ermanno Quadrelli, *Stefania Conte, Viola Macchi Cassia, Chiara Turati*
- Processing emotional expressions in the infant brain: what affects discrimination abilities?
Carlijn van den Boomen, *Nicolette Munsters, Chantal Kemner*
- Semantic organization of words and environmental sounds in 20-month-olds: An ERP study
Kristi Hendrickson, *Tracy Love, Matthew Walenski, Margaret Friend*
- Infant brains become more efficient: Neural mechanisms of visual attention in the first year of life
Louisa Kulke, *Janette Atkinson, Oliver Braddick*

(Event 3-016) Paper Symposium

Grand Salon Room 3
Saturday, 10:15am-11:45am

3-016. Recent advances in the study of early maternal behavior

Chair: *Annie Bernier*

- Sensitive responsiveness to infant signals across cultures: Who does it and how?
Judi Mesman, *Andrei Angged, Faramarz Asanjarani, Selva Chirif Trapnell, Ibrahima Cissé, Haatembo Mooya, Tessa Minter, Deniz Salali, Francis Sichimba*
- Deconstructing maternal sensitivity: Predictive relations to mother-child attachment in home and laboratory settings
Heidi N. Bailey, *Annie Bernier, Andrée-Anne Bouvette-Turcot, George Tarabulsky, David R. Pederson, Fabienne Becker-Stoll*
- The sound of sensitivity: In-the-moment relations between maternal pitch prosody and mother-toddler interaction quality
Nancy McElwain, *Daniel Berry, Jennifer Cole*
- A mind-mindedness intervention for mothers with severe mental illness facilitates secure attachment
Robin Schacht, Elizabeth Meins, Charles Fernyhough, Luna Centifanti, Susan Pawlby

(Event 3-017) Paper Session

Grand Salon Room 13
Saturday, 10:15am-11:45am

3-017. The Role of Touch on Social and Cognitive Development in Infants and Non-Human Primates

Chair: *Sara F Waters*

- Infants Catch Their Mothers' Negative and Positive Affect Physiology
Sara F Waters
 - Maternal touch and infant affect in the Still Face Paradigm: A cross-cultural examination
Crystal Aragon, *Jean R Lowe, Patrick Coulombe, Natalia Moss, Rebecca Rieger, Peggy C MacLean, Arvind Caprihan, John P Phillips, Alexis Handal*
 - Effects of social touch on newborn monkeys: increased exploration, memory, and social interest
Elizabeth Ann Simpson, *Annika Paukner, Stephen J Suomi, Pier Francesco Ferrari*
 - Can touch promote abstract rule learning from tones by 7-month-old infants?
Brock Ferguson, *Rana Abu-Zhaya, Casey Lew-Williams, Amanda Seidl*
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SATURDAY

(Event 3-018) Paper Symposium

Grand Salon Room 16
Saturday, 10:15am-11:45am

3-018. Gaze-contingent eye-tracking: New ways to study infant cognition, learning and memory

Chair: *Thorsten Kolling*

- When and how do infants become intentional agents?
Michiko Miyazaki, *Hideyuki Takahashi*
- Control Matters! Gaze contingent learning and retention in 8-month-old infants
Thorsten Kolling, *Jantina Bolhuis, Max Murakami, Jochen Triesch, Monika Knopf*
- Infants discover reliably contingent cues among visually salient distracters
Kristen S. Tummeltshammer, *Denis Mareschal, Natasha Kirkham*
- The Effects of Motor Development on Learning to Inhibit Attention to Actions: Comparing Ipsilateral and Contralateral Reaching
Alexis Barton, *Bennett Bertenthal*

(Event 3-019) Poster Symposium

Grand Ballroom Salon C&D_(Exhibit Hall)
Saturday, 10:15am-11:45am

3-019. Examining parent-teacher relationships in infant and toddler care: How they work, their correlates, and a positive intervention

Chair: *Sarah Naomi Lang*

- Children's Social-Emotional Adjustment and the Importance of the Parent-Teacher Cocaring Relationship
Michael B. Wells, *Sarah Naomi Lang, Lieny Jeon, Sarah J Schoppe-Sullivan*
- Family Childcare Providers' Relationships with Parents and Self-reported Closeness and Conflicts with Children in Care
Lieny Jeon, *Cynthia K Buettner, Sarah Naomi Lang, Jessica L Pierce, Rachel E Garcia*
- An Observational Assessment of Parent-Teacher Relationships in Infant-Toddler Classrooms to Examine Predictors of Cocaring Quality
Elly Quinn Maras, *Sarah Naomi Lang, Sarah J Schoppe-Sullivan*
- Supporting Parent-Teacher and Parent-Child Relationships in Childcare: Results of a Professional Development Intervention Study
Mallory I Swartz, *Elisa Vele-Tabaddor, Jessica Dym Bartlett, Francine Jacobs, Jayne Singer, Catherine Ayoub, Joshua Sparrow, M. Ann Easterbrooks*

(Event 3-020) Poster Session

Grand Ballroom Salon C&D (Exhibit Hall)
Saturday, 10:15am-11:45am

3-020. Poster Session 9

Attention, Memory, and Learning

- 1 Gaze following and gaze checking: Early advances in social cognition for deaf sign-exposed infants
Rechele Brooks, *Jenny Singleton, Andrew Meltzoff*
- 2 Testing a Dynamic Neural Field Model of Visuo-spatial Attention in Infancy with the IOWA Task
Sara Mosteller, *Shannon Ross-Sheehy, John P Spencer*
- 3 The Effects of Infant-Directed Speech on the Encoding and Retention of Visual Stimuli in Rhesus Macaques (Macaca mulatta)
Emily Slonecker, *Elizabeth Ann Simpson, Stephen J Suomi, Annika Paukner*
- 4 Lexical knowledge aids artificial grammar learning
Andreea Geambasu, *Claire van van Leeuwen, Clara C. Levelt*

Cognitive Development

- 5 Using the information about the absence of objects in 18-month-old infants
Eszter Szabo, *Agnés Kovacs*
- 6 Memory for Linear and Non-Linear Spatial Structure in Infancy
Koleen McCrink
- 7 Cognitive development in rural Gambia: relating behavior and growth from 6 – 24 months of age
Sarah Lloyd-Fox, *Drew Halliday, Katarina Begus, Perijne Vellekoop, Helen Maris, Lamin Sanyang, Saikou Drammeh, Momodou Darboe, Andrew Prentice, Sophie Moore, Clare Elwell*
- 8 Gaze-contingent preferences in the first year of life
David James Kelly, *Phoebe Jack, Rachel Weaver*
- 9 Infants Show Graded Responses to Different Levels of Relative Probability Information
Ezgi Kayhan, *Marcus Lindskog, Gustaf Gredebäck*
- 10 Infants with and without a familial risk of dyslexia differ in sequential learning in the visuospatial domain
Desiree Capel, *Elise de Bree, Annemarie Kerkhoff, Frank Wijnen*
- 11 The Role of The eyes in Face processing
FZ Sai
- 12 Infants' theory of mind: A test of domain-general accounts
Luca Surian, *Laura Franchin*
- 13 Detecting the boundaries of newborns' Peripersonal Space
Giulia Orioli, *Danica Dragovic, Teresa Farroni*

SATURDAY

- 14 Effects of parental co-regulation on toddler's problem-solving success
Kim Angeles Gärtner, Verena Vetter, Gitta Reuner, Sabina Pauen, Silke Hertel

Communication and Language

- 15 Exploring the impact of referent salience on 2.5-year-olds' cross-situational verb learning
John P Bunce, Rose Scott
- 16 Infant Visual Processing in Bilingual Environments
Dylan Antovich, Leher Singh, Katharine Graf Estes
- 17 Gaze Patterns to Speakers at 12- and 14 Months of Age are More Related to Cognitive Load and Less Related to Maternal Style
Lawrence Kim, Robin Panneton, Laura Mills-Smith, Alison Rae Heck, Molly Huss
- 18 Attention to linguistic and indexical information in female versus male voices at 12 months: Eye-tracking and online coding
Paola Escudero, Karen Mulak
- 19 Sharing the same language modulates attention for objects in preverbal infants
Hanna Marno, Bahia Guellai, Yamil Vidal Dos Santos, Marina Nespor, Jacques Mehler
- 20 Neurophysiological Evidence for Sound-Symbolic Sensitivity in Six-month-old Infants
Michiko Asano, Guillaume Thierry, Sotaro Kita, Keiichi Kitajo, Hiroyuki Okada, Mutsumi Imai
- 21 Consonant and vowel representation in newly segmented words: An ERP study
Katie Von Holzen, Leo-Lyuki Nishibayashi, Thierry Nazzi
- 22 Does the presence of sound symbolic words boost learning of non-sound symbolic words?
Stephanie Archer, Sotaro Kita
- 23 Happy Faces + Voices Facilitate Word-Object Learning in a Referential Context
Alison Rae Heck, Laura Mills-Smith, Robin Panneton
- 24 Does positive affect improve the acquisition of word-object associations?
Nicole Traynor, Karen Mulak, Rachel Robbins, Gabrielle Weidemann, Paola Escudero
- 25 Talking to tiny babies: Infant-directed speech and maternal attachment in mothers of low-risk premature infants
Karen Mattock, Elizabeth Byron
- 26 Infant-directed speech by fathers: Acoustic-dynamic correlates of the moderate emotional message
Titia Benders
- 27 Infant's perception of statement and question prosody: native vs. non-native language input
Sonia Frota, Joseph Butler, Shuang Lu, Marina Vigario

- 28 Language-specificity and memory in infant cross-situational learning
Buddhamas Pralle Kriengwatana, Yangyang Xu, Karlijn Liselotte Kooij, Paola Escudero, Haley Vlach, Maartje Raijmakers

- 29 Audio-visual speech perception and word-learning in 30-month-old children
Melanie HAVY, Pascal Zesiger

Developmental Neuroscience

- 30 Effect of visual scene context on word processing in 24-month-olds: ERP evidence
Andrea Helo, Najla Azaiez, Pia Rämä
- 31 Infant Approach/Avoidance Motivation to Friendly and Unfriendly Characters: A Pilot Study of EEG Asymmetries
Teresa Taylor-Partridge, Paisley Pauli
- 32 Attachment security is related to infants' neural processing of animated parent-child interactions
Szilvia Biro, Renske Huffmeijer, Mikko Peltola, Lenneke Alink, Marian Bakermans-Kranenburg, Marinus van IJzendoorn
- 33 Neural Representations of the Body in Infants: Exploring Cross-modal Effects on Somatosensory Evoked Potentials
Ashley R Drew, Andrew Meltzoff, Peter Marshall

Emotional Development

- 34 How Do Happy and Sad Emotions Affect Toddler Prosocial Behavior?
Whitney Waugh, Emma Satlof-Bedrick, Jesse Drummond, Celia Brownell
- 35 Behavioral Measures of Positive Emotional Contagion in Infancy
Evan Jordan, Collin O'Leary, Janna Colaizzi, Elisa Duell, Brett McVey, Sarah Winburn, Courtney Hartman, Kyle Christopher, Sammantha Roshay, David G. Thomas
- 36 Individual Differences in Newborns' Cries Confuse the Search for Gender and Native Language Effects
Gwen E. Gustafson, Sarah M. Sanborn, Hung-Chu Lin, James A. Green
- 37 Influence of Maternal Emotion Socialization on Infant Emotion Expression: Differentiating Positive and Negative Trajectories
Emily K. Ross, Keith Crnic, Linda Luecken, Nancy Gonzales
- 38 Relations Between Childrearing Attitudes, Maternal Responsiveness, and Frustration in Toddlers
Sarah Haney, Lyndsay Fairchild, Kelsey Van Boxel, Katelyn Monday, Kathryn Hewitt, Charlene Kucirek, Anne Hungerford

SATURDAY

- 39 Individual Differences in the First Year of Life: Latent Profile Analysis of the Infant Behavior Questionnaire-Revised
Maria Gartstein, Martha Ann Bell, Julia M. Braungart-Rieker, Esther Leerkes, Karina Money, Carol Cheatham, Krystal Mize, Rina Eiden, Rebecca Brand, Jennifer Labounty, Gina Mireault
- 40 Maternal Caregiving and Infant Respiratory Sinus Arrhythmia Immediately after an Episode of Crying Ends
Susan Woodhouse, Maria Lauer, Netta Admoni, Monica Kim, Milim Lee
- 41 What Leads Mothers to Engage in Overtly Negative Maternal Behavior When Their Infants are Distressed?
Lindsey Gedaly, Esther Leerkes
- 42 Self-reported and observed ratings of parental reflective functioning: Associations with maternal mental health and parenting
Jerrica Pitzen, Jessica Riggs, Elizabeth Morgan, Alissa C. Huth-Bocks
- 43 Mother's Parenting Behaviors at 36 Months Following Child Stay in Neonatal Intensive Care
Alyssa Saylor, Carol Van Hulle, H. Hill Goldsmith

Motor and Sensorimotor Processes

- 44 The Effect of Posture on 3-month-old Infants' Reaching
Sarah Wiesen, Amy Needham
- 45 Ability of infants to generalize from spoon use to tool use
Lauriane Rat-Fischer, Laetitia Jeancolas, J. Kevin O'Regan, Jacqueline Fagard
- 46 Why do infants move? Locomotor exploration is not directed toward visible goals
Justine Hoch, Jaya Rachwani, Karen E. Adolph
- 47 At home head-camera study of manual object manipulation
Ariel La, Connor Courtney, Amanda Essex, Kelsey Offen, Minyi Zheng, Linda Smith
- 48 How Children Discover Hidden Affordances for Action
Danielle Joy Kellier, Lok Yu Gladys Chan, David Comalli, Catherine S. Tamis-LeMonda, Lana Karasik, Jeff Lockman, Karen E. Adolph
- 49 Natural infant walking
Do Kyeong Lee, Laura Golenia, Whitney Cole, Karen E. Adolph

Pediatric Issues, Psychopathology and Developmental Delay

- 50 Prenatal Opioid Exposure and Neonatal Neurobehavioural Function
Trecia Ann Wouldes, Alison Davie-Gray, Lianne Jane Woodward

- 51 Perinatal Choline Supplementation Improves Infant Sensory Gating and Decreases Preschool Attentional and Social Symptoms
Randal Ross, Sharon Hunter, M. Camille Hoffman, Lizbeth McCarthy, Betsey Chambers, Amanda Law, Sherry Leonard, Gary Zerbe, Robert Freedman
- 52 Birth weight, birth length, and gestational age as indicators of favorable fetal growth conditions in a US sample
Marie Camerota, Kenneth Bollen

Perception

- 53 Evidence of Face Space in Infancy
Erin Robbins, Lisa Parr, Maria Jones, Amélie Deschenaux, Sara Valencia Botto, Philippe Rochat
- 54 Infants' Advantage in Locating Female Faces in a Visual Search Task
Jennifer Rennels, Andrew J Cummings, Andrea J Kayl, Krystal Kamekona, Kirsty Kulhanek
- 55 Temporal Synchrony as a Foundation for Language Learning: 13-Month-Olds Learn Novel Label-Object Relations
Lorraine Bahrack, Ruth Zuraw-Moya, Shannon M Pruden, James Torrence Todd
- 56 Infants use context to normalize speaking rate
Yuanyuan Wang, Fernando Llanos, Amanda Seidl

Social Development

- 57 Social Smiling as a Marker of Temperament or Social-Communicative Ability? Implications for Early Identification of Autism
Jessica Bradshaw, Robert Koegel, Lynn Koegel
- 58 Social-Emotional Problems in Toddlers At-Risk for Autism Due to Language Delays
Audrey Thurm, Renee Gallo, Mika Maeda, Cristan Farmer, Laurie Swineford, Stacy Shumway Manwaring
- 59 Parental Practices and Cultural Beliefs Regarding Parent-Infant Bed Sharing
Pamela A. Schulze
- 60 Differential Associations between Parents' Discrepancies in Reasons for Sleep Arrangements and Coparenting Quality
Mina Shimizu, Douglas Michael Teti
- 61 Prosocial Behavior in Early Childhood: The Influences of Parental Emotional Expressiveness and Children's Physiological Regulation
Leigha MacNeill, Michelle Lovell, Alysia Y Blandon
- 62 Infant Characteristics as Predictors of Change in Couple Relationship Commitment across the Transition to Parenthood
Anna Lorraine Olsavsky, Lauren E. Altenburger, Sarah J Schoppe-Sullivan, Claire Kamp Dush

SATURDAY

- 63** Older Siblings' Influences on Preschoolers' Behavioral Control
Sheila Van Berkel, Ju-Hyun Song, Brenda Volling, Richard Gonzalez
- 64** Mediating Role of Maternal Positive Affect in the Relation of Social Support to Maternal Sensitivity
Alise Stephens, Cynthia L. Smith, Tracy Spinrad
- 65** Baby Talk: Parent language concerning infant internal states during one-one-one interactions influences attachment.
Molly O'Neill, Elizabeth Planalp, Julia M. Braungart-Rieker
- 66** A longitudinal examination of infant and maternal characteristics as predictors of self-control at 36 months
Yvonne Caldera, Yang Liu
- 67** Stability of Attachment Security Moderates Associations between Maternal Characteristics in Infancy and Subsequent Social Behavior
Jesse Drummond, Susan Campbell, Celia Brownell
- 68** Emerging Sensitivity to the Evaluation of Others in Infancy
Sara Valencia Botto, Maria Jones, Amelie Deschenaux, Erin Robbins, Philippe Rochat
- 69** Young children's underlying motivation to help a recipient changes if they are responsible for accidentally harming her
Robert Hepach, Amrisha Vaish, Michael Tomasello

Presentation 1: Behavioral Imaging and the Analysis of Social Interactions

Speaker: **James Matthew Rehg**

Abstract: Beginning in infancy, individuals acquire the social and communication skills that are vital for a healthy and productive life. Children with developmental delays face great challenges in acquiring these skills, resulting in substantial lifetime risks. Children with an Autism Spectrum Disorder (ASD) represent a particularly significant risk category, due both to the increasing rate of diagnosis of ASD and its consequences. Since the genetic basis for ASD is unclear, the diagnosis, treatment, and study of the disorder depends fundamentally on the observation of behavior. In this talk, I will describe our research agenda in Behavioral Imaging, which targets the capture, modeling, and analysis of social and communicative behaviors between children and their caregivers and peers. We are developing computational methods and statistical models for the analysis of vision, audio, and wearable sensor data. I will present several recent findings, including a method for detecting eye contact between children and adults using wearable cameras, an approach to retrieving behaviors of interest in large video collections, and the audio-video analysis of paralinguistic events in young children's speech. I will also describe our plans for clinical applications of this technology. This is joint work with Drs. Agata Rozga and Mark Clements, and Ph.D. students Eunji Chong, Arridhana Ciptadi, Yin Li, Hrishikesh Rao, and Zhefan Ye.

Presentation 2: Teaching Social Skills with Social Robots

Speaker: **Brian Scassellati**

Abstract: In the last decade, there has been a slowly growing interaction between robotics researchers and clinicians to look at the viability of using robots as a tool for enhancing therapeutic and diagnostic options for individuals with autism spectrum disorder. While much of the early work in using robots for autism therapy lacked clinical rigor, new research is beginning to demonstrate that robots improve engagement and elicit novel social behaviors from people (particularly children and teenagers) with autism. However, why robots in particular show this capability, when similar interactions with other technology or with adults or peers fails to show this response, remains unknown. This talk will present some of the most recent evidence showing robots eliciting social behavior from individuals with autism and discuss some of the mechanisms by which these effects may be generated. As a diagnostic tool, robots offer a social press that is repeatable and controllable to allow for standardization of interactive stimuli across individuals and across time. Because robots can provide consistent, reliable actions, clinicians can ensure that identical stimuli are presented at each diagnostic session. Furthermore, the component systems in socially aware robots may offer non-interactive methods for tracking human-human social behaviors. The perceptual systems of these robots are designed to measure and quantify social behavior—that is, exactly the skills that must be identified during diagnosis.

Saturday, 11:45am-12:45pm

(Event 3-021) Award Ceremony & Business Meeting

Grand Ballroom Salon A&B
Saturday, 11:45am-12:45pm

3-021. Award Ceremony & Business Meeting

The Award Ceremony and Business Meeting is open to all attendees. A program will be presented introducing each recipient of the Young Investigator Award, the Dissertation Award, the best paper in Infancy, Undergraduate Awards, Travel Awards, as well as recognizing others who made important contributions. We will announce our newly elected officers (President-elect, Treasurer, Board Members), our new society organizer, pass the baton to our incoming president, Kathy Hirsh-Pasek, and celebrate and recognize the wonderful work of our colleagues.

Saturday, 12:45pm-2:15pm

(Event 3-022) Invited Views by Two - Sponsored by Positive Science

Grand Salon Room 21 & 24
Saturday, 12:45pm-2:15pm

3-022. Studying Autism with Technology

Moderator: *Gert Westermann*

SATURDAY

(Event 3-023) Paper Symposium

Grand Salon Room 12

Saturday, 12:45pm-2:15pm

3-023. How Multiple Exemplars and Linguistic Cues Support Generalization in Infants and Toddlers

Chair: *Jane B. Childers*

- It Takes Many to Know One: When Comparison Matters for Infants' Property Generalizations
Ena Vukatana, Susan Graham, Suzanne Curtin, Michelle Zepeda
- When Spatial Labels Shape Infant Spatial Categorization
Marianella Casasola
- Sound-symbolism Helps Three-year-olds Extract and Retain a "Verbal Essence"
Mutsumi Imai, Katerina Kantartzis, Sotaro Kita
- Children Align Elements of Events, or Subevents, When Learning New Verbs
Jane B. Childers, Tyler Howard

(Event 3-024) Paper Symposium

Grand Salon Room 9

Saturday, 12:45pm-2:15pm

3-024. Infants' Representations of Others' Knowledge States: Insights from Developmental, Comparative, & Experimental Philosophy Studies

Chair: *Laurie Santos*

- Insights into the Development of Knowledge Representations From Non-Human Primates
Lindsey A. Drayton, Laurie Santos
- Knowledge before belief: Response times indicate evaluations of knowledge prior to belief in human adults
Jonathan Phillips, Fiery Cushman, Joshua Knobe
- The Scope and Specificity of Young Children's Inferences Regarding the Knowledge of Others
Candice M. Mills, Asheley R. Landrum
- Are there signatures of knowledge and ignorance attributions that persist across the lifespan?
Ori Friedman

Saturday, 2:30pm-3:45pm

(Event 3-025) Invited Speaker

Grand Salon Room 21 & 24

Saturday, 2:30pm-3:45pm

3-025. Just Babies: The Origin of Good and Evil

Chair: *Koleen McCrink*

Speaker: *Paul Bloom*

Description: Babies possess a rich moral sense—they distinguish between good and bad acts and prefer good characters over bad ones. They feel compassion for others, and might even possess a primitive sense of justice. But this moral sense is narrow. Many principles that are central to adult morality, such as kindness to strangers, are the product of our intelligence and our imagination; they are not in our genes. And some of our natural moral intuitions have perverse

consequences—we would be better off without them. After reviewing what we know about baby morality, I will zoom in on empathy and its development. Many psychologists and philosophers believe that empathy is the foundation of morality. I will argue that, from a developmental standpoint, empathy is nowhere near as important as many scholars believe it is. This is a good thing, because empathy is actually a poor moral guide. It is biased, short-sighted, and innumerate; we do better when we rely on a more distant compassion.

Biography: Paul Bloom is the Brooks and Suzanne Ragen Professor of Psychology at Yale. His research explores the developing understanding of domains such as morality and art. He has written for journals such as *Nature* and *Science*, and popular outlets such as *The New Yorker*, and is the co-editor of *BBS*.

(Event 3-026) Invited Speaker

Grand Salon Room 15 & 18

Saturday, 2:30pm-3:45pm

3-026. Learning in Infancy: A Rational Response to Stability and Change

Chair: *Jenny Saffran*

Speaker: *Richard Aslin*

Description: There are two general modes of learning available to infants (and non-humans) who do not have access to language. The first is supervised learning in which feedback from the environment is readily available. This feedback could consist of observable outcomes produced via either self-generated actions or externally generated event consequences. There are two dilemmas facing a naive learner who attempts to rely on supervised learning: (1) many actions and external events have no obvious feedback, and (2) feedback signals are often available long after the causal chain of events has ended. The second mode of learning is unsupervised in which feedback is completely absent. In this mode, the naive learner must extract latent structures from mere observation. There are two dilemmas facing the unsupervised learner: (1) the potential number of latent structures is enormous, even with relatively simple events, and (2) without strong a priori biases, a search through this space of potential structures would be inefficient and time-consuming. Both of these modes of learning, therefore, present the naive learner with substantial obstacles, yet we know that infants learn and develop quite rapidly. To overcome these obstacles, infants must deploy a set of implicit strategies to reduce the computational complexity of the learning task, either by having immature sensory systems or by being placed in an environmental context that filters out irrelevant (or misleading) contingencies between events. Data supporting these developmental perspectives on learning in infancy will be summarized, with an emphasis on the trade-off between exploring a changing environment and exploiting a stable environment.

Biography: Richard Aslin is the William R. Kenan Professor of Brain and Cognitive Sciences at the University of Rochester. He received his Ph.D. from the University of Minnesota's Institute of Child Development in 1975 and has been on the faculty at Rochester since 1984. He is the past-president of ICIS (2010-2012).

SATURDAY

Saturday, 4:00pm-5:30pm

(Event 3-027) Paper Symposium

Grand Salon Room 21 & 24

Saturday, 4:00pm-5:30pm

3-027. Infants' Use of Perceptual and Conceptual Information in Early Word Learning

Chair: *Christopher Fennell*

- Mapping Lexical Tones to Meaning from a Perceptual Cues Perspective: When Prosody Outweighs Salience
Jessica Hay, *Qian Zhao, Ryan Cannistraci*
- Forging links to meaning: How communicative experience shapes the link between communication and object categorization
Brock Ferguson, *Sandra Waxman*
- Predicting Age of Acquisition for Early Words Across Languages
Mika Braginsky, Daniel Yurovsky, Virginia Marchman, Michael C. Frank

(Event 3-028) Paper Symposium

Grand Salon Room 15 & 18

Saturday, 4:00pm-5:30pm

3-028. Contextualizing Harsh Intrusive Caregiving and its Effects on Early Child Development within the Family System

Chair: *Sarah J Schoppe-Sullivan*

- The Role of Coparenting in the Associations Between Maternal Personality and Harsh Intrusive Parenting
Bharathi J Zvara, *Sarah Naomi Lang, Sarah J Schoppe-Sullivan, Claire Kamp Dush*
- Marital conflict spillover cascade processes and coercive parent-child cycles following the birth of a second child
Matthew Stevenson, *Brenda Volling, Richard Gonzalez*
- Atypical Maternal Behaviors in Infancy Predicts Oppositional Defiant Behaviors and Callous-Unemotional Behaviors at 3 Years of Age
Peter Rehder, *W. Roger Roger Mills-Koonce, Michael Willoughby, Elisa Brofman, Sheri Madigan, Karlen Lyons-Ruth*
- Bidirectional Associations Between Harsh Parenting and Children's Emotion Regulation: A Person-Centered Analysis
Katherine Paschall, *Ann Mastergeorge, Melissa A. Barnett*

(Event 3-029) Paper Symposium

Grand Salon Room 12

Saturday, 4:00pm-5:30pm

3-029. Understanding infants' curiosity-based learning: empirical and computational approaches

Chair: *Katherine E. Twomey*

- A computational model of infants' curiosity-based learning
Gert Westermann, *Katherine E. Twomey*
- Infants' information seeking in a category learning task
Katherine E. Twomey, *Ben Malen, Gert Westermann*
- Social basis of sustained attention and exploration: Coordinated attention with parents trains infants' sustained attention skills
Chen Yu, *Linda Smith*
- The learning progress hypothesis: theory and models of curiosity-driven exploration and its impact on development
Pierre-Yves Oudeyer

(Event 3-030) Paper Session

Grand Salon Room 9

Saturday, 4:00pm-5:30pm

3-030. Vocal Biomarkers and Speech Processing in Predicting Early Language Development

Chair: *Jill Lany*

- Developmental Cascades in Early Social Interaction: Vocal Biomarkers of Risk for Autism in the First Two Years of Life
Gordon Ramsay, *Jhonelle Bailey, Shweta Ghai*
 - Speech-Processing Efficiency Leverages Novel Word-Learning in Infants and Toddlers
Jill Lany
 - Speed of Language Processing at 18 months Predicts Trajectories of Vocabulary Growth in both Preterm and Full-term Children
Virginia Marchman, *Melanie Ashland, Elizabeth C. Loi, Katherine A. Adams, Anne Fernald, Heidi M. Feldman*
 - Quantity & Quality of CDS at 18-months Predicts Later Vocabulary and Language Processing
J. Douglas Mastin, *Monica Ellwood-Lowe, Virginia Marchman, Anne Fernald*
-

SATURDAY

(Event 3-031) Paper Session

Grand Salon Room 6
Saturday, 4:00pm-5:30pm

3-031. Perceiving the Actions and Goals of Others

Chair: *Gustaf Gredebäck*

- Event-related potentials discriminate familiar and unusual goal outcomes in 5-month-olds and adults
Christine Michel, Katharina Kaduk, Áine Ni Choisdealbha, Vincent Reid
- Infants' Understanding of Object Preference Through Taking and Receiving Actions
Ariane E. Eason, Daniel Doctor, Ellen Chang, Tamar Kushnir, Jessica Sommerville
- Motor development and associative learning provide separate contributions to action prediction in infancy
Gustaf Gredebäck, Marcus Lindskog, Ben Kenward, Mari Fransson, Carin Marciszko
- The Psychological Principle of Non-Contradiction Guides Infants Representation of Action And Communication
Olivier Mascaro, Agnes Kovacs

(Event 3-032) Paper Symposium

Grand Salon Room 3
Saturday, 4:00pm-5:30pm

3-032. The influence of maternal psychopathology and stress on neural circuitry of infant caregiving

Chair: *Alison Hipwell*

- Responsiveness to Infant Cues in Postpartum Depressed and Non-Depressed Mothers: Functional Neural Correlates and Behaviour
Kathleen Wonch, Geoffrey Hall, Aya Dudin, Meir Steiner, Alison Fleming
- Functional connections between the amygdala and TPJ moderate the link between postpartum anxiety and observed maternal caregiving
Chaohui Guo, Eydie Moses-Kolko, Mary Louise Phillips, James Swain, Alison Hipwell
- Associations among Poverty, Maternal Brain Sensitivity to Infant Cry, and Transition to Motherhood
Pilyoung Kim

(Event 3-033) Paper Symposium

Grand Salon Room 13
Saturday, 4:00pm-5:30pm

3-033. The Functions of Infants' Social Categorization

Chair: *Gil Diesendruck*

- Emergence of Implicit Racial Bias in Infants: Convergent Evidence
Naiqi G Xiao, Paul C. Quinn, Shaoying Liu, Rachel Wu, Kristen S. Tummeltshammer, Natasha Kirkham, Liezhong Ge, Olivier Pascalis, Kang Lee
- Early Reasoning about Affiliation and Social Networks
Annie C. Spokes, Elizabeth S. Spelke
- Gendered Motivations as Drivers of Infants' Social Categorization
Matar Ferera, Gil Diesendruck

(Event 3-034) Paper Session

Grand Salon Room 16
Saturday, 4:00pm-5:30pm

3-034. How Maternal Behavior and Physiology Affect Infant Attention and Cognition

Chair: *John Colombo*

- Predictability of Maternal Behavior and Child Cognitive Development
Stephanie A Stout, Brian Vegetabile, Hal Stern, Laura Glynn, Curt A. Sandman, Tallie Z Baram, Elysia Davis
- Infant Respiratory Sinus Arrhythmia, Sensitive Parenting and Maternal Executive Functions Predict Children's Executive Functions
Noa Gueron-Sela, Nicholas Wagner, Cathi Propper, W. Roger Roger Mills-Koonce, Martha Cox
- Maternal Theory of Mind: The Link between Oxytocin and Maternal Behaviour
Anna MacKinnon, C. Sue Carter, Nancy Feeley, Ian Gold, Barbara Hayton, Phyllis Zelkowitz
- Effects of Prenatal DHA Supplementation on Attention Tasks in Infancy
John Colombo, Kathleen M. Gustafson, Byron J. Gajewski, D. Jill Shaddy, Elizabeth H. Kerling, Sara Maccone, Jocelynn M. Thodosoff, Susan E. Carlson

SATURDAY

(Event 3-035) Poster Symposium

Grand Ballroom Salon C&D_(Exhibit Hall)
Saturday, 4:00pm-5:30pm

3-035. The Origins and Development of Ingroup Loyalty

Chair: *Lin Bian*

- Who will be nice and who will be mean? Infants' expectations of social group behavior
Anthea Pun, Andrew Baron
- Toddlers and Infants Expect Individuals from Novel Social Groups to Prefer and Align with Ingroup Members
Lin Bian, Renee Baillargeon
- Stick together: Young children's loyalty to the group
Antonia Misch, Harriet Over, Malinda Carpenter

(Event 3-036) Poster Session

Grand Ballroom Salon C&D (Exhibit Hall)
Saturday, 4:00pm-5:30pm

3-036. Poster Session 10

Attention, Memory, and Learning

- 1 Development of face processing expertise in infancy: An association between scanning and recognition
Shaoying Liu, Naiqi G Xiao, Paul C. Quinn, Liezhong Ge, Olivier Pascalis, Kang Lee
- 2 Supporting Development in the First Year of Life through Book Reading
Arjun Iyer, Eswen Fava, Lisa Scott
- 3 Six-month-old infants' visual inspection of real-life visual scenes as a function of pet experience
Brianna Lynn McGee, Mirjam Harrison, Lisa Oakes
- 4 My turn, your turn: Infants' tool use before and after observing a demonstration
Jane Hirtle, Amy Needham, Claire Weaver
- 5 Pupillometry as a Measure of Very Young Infants' Recognition Memory
Kahl Hellmer, Gustaf Gredebäck, Hedvig Söderlund

Cognitive Development

- 6 Preverbal Infants' Third-Party Imitator Preferences: Animated Displays versus Filmed Actors
Heather L. Kosakowski, Lindsey Powell, Elizabeth S. Spelke
- 7 The development of infants' ability to use linguistic and gazing cues when understanding others' pointing actions as goal-directed
Isu Cho, Yoonha Lee, Hyun-joo Song
- 8 Intergenerational Effects of Adversity on the Continuity and Socialization of Neurocognition
Mark Wade, Sheri Madigan, Andre Plamondon, Michelle Rodrigues, Dillon Thomas Browne, Jennifer Jenkins

- 9 Parent mental-state talk predicts 2.5-year-olds' performance on a non-verbal anticipatory-looking false-belief task
Erin Roby, Rose Scott
- 10 How does social touch modulate arousal states? An investigation in early development
Laura Pirazzoli, Teodora Gliga, Sarah Lloyd-Fox, Mark Johnson
- 11 Children's observational learning of tool use in human and ghost conditions
Wan-Ling Chung, Chi-Tai Huang
- 12 14-Month-old infants' sensitivity to sub-efficient means actions shared within the language community
Nazli Altinok, Mikolaj Hernik, Ildiko Kiraly, Gyorgy Gergely

Communication and Language

- 13 Cross-accent identification of familiar words by 17-month-old monolingual and bilingual infants
Karen Mulak, Paola Escudero, Nicole Traynor
- 14 Word recognition across dialects in monolingual and bilingual infants
Giovanna Morini, Rochelle Suzanne Newman, Leher Singh
- 15 Can infants extract the core properties of their native language to build on categories?
Alissa Ferry, Bahía GUELLAI, Jacques Mehler
- 16 Generalizing across accents: the problem of phonemic deviations
Penina Kozlovsky, Sabrina Panza, Giovanna Morini, Rochelle Suzanne Newman
- 17 Referential understanding of pointing actions and its consequences for object representation
Barbara Pomiechowska, Gergely Csibra
- 18 Applying machine learning to assess individual risk of dyslexia
Ao Chen, Frank Wijnen, Charlotte Koster, Hugo Schnack
- 19 Explaining individual variation in word learning: examining the role of maternal speech, word recognition and social gaze
Eline Bekkers, Rianne van Rooijen, Caroline Junge
- 20 Caregivers as Experimenters: Reducing Unfamiliarity Helps Shy Children Learn Words
Matt Hilton, Katherine E. Twomey, Gert Westermann
- 21 Infant directed speech: Who is driving the interaction?
Bechara Kayrouz, Marina Kalashnikova, Denis Burnham
- 22 Effects of Family Risk for Dyslexia on Infant Directed Speech and Early Vocabulary Development
Marina Kalashnikova, Usha Goswami, Denis Burnham

SATURDAY

- 23 The perception of boundary tones in infancy across languages
Megha Sundara, *Monika Molnar, Sonia Frota*
- 24 Acoustic factors drive 9-month-old English and French infants' discrimination of speech sound contrasts
Stephanie Archer, *Suzanne Curtin, Linda Polka*
- 25 Early prosodic boundary processing: Evidence from French learning infants
SAIOA LARRAZA, *Caroline Wellmann, Ranka Bijeljac-Babic, Barbara Höhle, Thierry Nazzi*
- 26 SymBuki: A meta-analysis of the sound symbolic bouba-kiki effect in infants and toddlers
Imme Lammertink, Mathilde Fort, Sharon Peperkamp, Paula Fikkert, Adriana Guevara-Rukoz, Sho Tsuji
- 27 Background TV Exposure in Very Young Children: Context and Consequence of Exposure
Deborah Linebarger, *Rachel Barr*
- 35 A Cross-lagged Analysis of the Relations between Maternal Intrusiveness, Emotion Dysregulation, and Physiological Functioning
Nicole B Perry, *Jessica Dollar, Susan D Calkins, Martha Ann Bell*
- 36 Rapid Categorization of Snakes, but not Frogs, in the Infant's Posterior Cortex: Evidence from Fast Periodic Visual Stimulation
Julie Bertels, *Arnaud Destrebecqz, Adélaïde de Heering*
- 37 Infant Positive Affect and Frontal EEG Asymmetry as Predictors of Toddlerhood Effortful Control
Cynthia L. Smith, *Lin Tan, Anjolie Diaz, Susan D Calkins, Martha Ann Bell*
- 38 Infant Frontal EEG Asymmetry Moderate the Association between Maternal Behavior and Toddler Negative Affectivity
Anjolie Diaz, *Margaret Swingler, Susan D Calkins, Martha Ann Bell*

Developmental Neuroscience

- 28 Contrast Properties of the Human Eye Gaze Facilitate Object Processing in Four-Month-Old Infants
Sebastian Wahl, *Vesna Marinovic, Birgit Träuble*
- 29 Home Environment at 6 Months Predicts Infant EEG Power at 12 Months
Ashley Moore St. John, *Jacqueline Liederman, Philip Grieve, Amanda Tarullo*
- 30 SLC6A4 methylation and socio-emotional stress response to the Still-Face Paradigm in very preterm and full-term infants
Livio Provenzi, *Roberto Giorda, Monica Fumagalli, Uberto Pozzoli, Francesco Morandi, Silvana Beri, Ida Sirgiovanni, Giorgia Menozzi, Renato Borgatti, Fabio Mosca, Rosario Montirosso*
- 31 Relationships between maternal depressive or anxiety symptoms and age at first febrile seizure
Fanny Thebault-Dagher, *Catherine Herba, Jean Séguin, Gabriel Shapiro, William Fraser, Sarah Lippé*

Emotional Development

- 32 Impact of Infant Fear Behaviors on Visual Attention Patterns
Kayla M Brown, *Brad Taber-Thomas, Vanessa LoBue, Kristin Buss, Koraly Perez-Edgar*
- 33 Pre- and postnatal maternal psychological health is associated with heightened attention to negative facial emotions in infants
Mari Fransson, *Carin Marciszko, Gustaf Gredebäck, Marcus Lindskog, Ben Kenward*
- 34 The relationship between temperament and active vs. passive touchscreen use in 13-36-month-old toddlers
Tim John Smith, *Irati R. Saez De Urabain, Annette Karmiloff-Smith, Rachael Bedford*

- 39 Behavioral and Physiological Expressions of Jealousy Across the First Year of Life
Melannie Platt, *Nancy Aaron Jones, Krystal Mize*
- 40 An Eyetracking Investigation of Infants Use of Emotional Gaze Cues
Ryan Barry, *Jessica Burris, Susan Rivera*
- 41 Anxiety and depressive symptoms impact on adults' ability to process infant facial expressions during pregnancy
Eija Sinervä, *Christine Parsons, Hasse Karlsson, Riikka Korja, Linnea Karlsson*

Motor and Sensorimotor Processes

- 42 Infants Plan Prehension While Pivoting
Jaya Rachwani, *Kasey C. Soska, Claes von Hofsten, Kerstin Rosander, Karen E. Adolph*
- 43 Auditory-visual perception: do preterm infants perceive synchrony ?
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Language

Nonposters: 1-002, 1-007, 1-016, 1-025, 1-034, 2-008, 2-017, 2-018, 2-029, 2-033, 3-008, 3-013, 3-030
Posters: 1-011 (15), 1-011 (16), 1-011 (17), 1-011 (19), 1-011 (20), 1-011 (23), 1-011 (24), 1-011 (26), 1-011 (27), 1-011 (28), 1-011 (47), 1-011 (50), 1-023 (13), 1-023 (14), 1-023 (21), 1-023 (23), 1-023 (25), 1-023 (26), 1-023 (27), 1-023 (36), 1-033 (12), 1-033 (15), 1-033 (17), 1-033 (18), 1-033 (19), 1-033 (20), 1-033 (22), 1-033 (23), 1-033 (24), 1-033 (25), 1-033 (26), 1-033 (27), 1-040 (15), 1-040 (20), 1-040 (21), 1-040 (26), 1-040 (28), 1-040 (29), 1-040 (8), 2-010 (15), 2-010 (17), 2-010 (21), 2-010 (3), 2-020 (14), 2-020 (15), 2-020 (17), 2-020 (18), 2-020 (20), 2-020 (21), 2-020 (26), 2-020 (27), 2-020 (28), 2-036 (16), 2-036 (17), 2-036 (18), 2-036 (20), 2-036 (21), 2-036 (22), 2-036 (25), 2-036 (26), 2-036 (3), 2-036 (8), 3-010 (18), 3-010 (19), 3-010 (26), 3-010 (27), 3-010 (56), 3-020 (15), 3-020 (19), 3-020 (26), 3-020 (27), 3-020 (4), 3-020 (5), 3-020 (55), 3-036 (15), 3-036 (23), 3-036 (24), 3-036 (25)

Language delay/language disorders/communication disorders

Posters: 1-011 (49), 1-011 (54), 1-011 (55), 1-023 (49), 1-040 (16), 1-040 (27), 2-010 (24), 2-010 (25), 2-010 (52), 2-036 (15), 3-020 (58), 3-036 (18), 3-036 (21), 3-036 (22)

Language input

Nonposters: 1-002, 1-007, 1-019, 1-034, 3-030
Posters: 1-011 (60), 1-023 (20), 1-023 (22), 1-023 (24), 1-023 (25), 1-033 (18), 1-033 (7), 1-040 (17), 1-040 (23), 1-040 (24), 1-040 (25), 1-040 (58), 2-010 (19), 2-010 (26), 2-010 (27), 3-010 (21)

Learning

Nonposters: 1-002, 1-004, 1-005, 2-005, 2-006, 2-008, 2-032, 2-033, 2-034, 3-017, 3-018
Posters: 1-011 (24), 1-011 (3), 1-023 (46), 1-023 (51), 1-023 (65), 1-033 (12), 1-033 (13), 1-033 (14), 1-033 (24), 1-033 (25), 1-033 (61), 1-040 (46), 2-010 (12), 2-010 (13), 2-010 (32), 2-010 (4), 2-020 (12), 2-020 (24), 2-036 (11), 2-036 (12), 2-036 (4), 3-010 (2), 3-020 (4), 3-036 (11), 3-036 (2), 3-036 (4)

Locomotion

Nonposters: 1-029, 2-024
Posters: 1-023 (4), 1-023 (47), 1-023 (63), 1-033 (47), 1-033 (49), 1-033 (65), 1-040 (49), 2-036 (45), 3-010 (46), 3-020 (46), 3-036 (45)

Longitudinal research

Nonposters: 1-025, 2-031, 3-030, 3-034
Posters: 1-033 (21), 1-033 (29), 1-033 (34), 1-033 (50), 1-040 (41), 1-040 (50), 1-040 (68), 2-010 (22), 2-010 (46), 2-020 (10), 2-020 (29), 2-020 (64), 2-036 (41), 2-036 (54), 2-036 (59), 3-020 (37)

Looking time

Nonposters: 3-008
Posters: 1-033 (58), 2-010 (14), 2-010 (5), 2-010 (64), 2-020 (1), 2-020 (26), 2-020 (58), 2-020 (8), 2-036 (13), 2-036 (27), 3-010 (58), 3-010 (7), 3-020 (12), 3-020 (4), 3-020 (56), 3-020 (6), 3-036 (12)

MRI

Nonposters: 2-012
Posters: 1-011 (32), 2-036 (51)

MRI/fMRI

Nonposters: 3-032
Posters: 2-010 (45), 3-010 (56)

Maternal depression/postpartum depression/maternal disorder

Nonposters: 2-014, 2-016, 3-012, 3-032
Posters: 1-033 (34), 1-033 (39), 1-033 (41), 1-033 (42), 1-033 (43), 2-010 (41), 2-010 (53), 2-020 (54), 2-020 (66), 2-036 (64), 2-036 (65), 3-010 (38), 3-010 (39), 3-020 (67), 3-036 (31), 3-036 (33), 3-036 (41)

Maternal responsiveness/parental responsiveness

Nonposters: 1-010, 1-016, 1-026, 2-004, 2-008, 3-032
Posters: 1-023 (67), 1-033 (35), 1-040 (22), 2-010 (53), 2-020 (67), 2-036 (19), 3-020 (38), 3-036 (60), 3-036 (61), 3-036 (8)

Maternal sensitivity

Nonposters: 1-016, 1-031, 2-003, 2-016, 2-031, 3-016, 3-017
Posters: 1-023 (32), 1-033 (41), 1-033 (59), 1-033 (66), 1-033 (67), 1-040 (35), 2-010 (39), 2-010 (40), 2-010 (42), 2-020 (27), 2-020 (37), 2-036 (66), 2-036 (67), 3-020 (64), 3-020 (65), 3-020 (66), 3-020 (67), 3-036 (51)

Measurement

Posters: 1-011 (43), 1-023 (41), 1-033 (36), 1-040 (16), 3-036 (52)

Media

Nonposters: 2-032
Posters: 1-040 (63), 2-020 (4), 2-036 (25), 3-010 (13), 3-010 (3), 3-010 (40), 3-010 (5), 3-036 (34)

Memory

Nonposters: 1-015, 2-033
Posters: 1-011 (4), 1-033 (1), 1-033 (25), 2-020 (2), 2-020 (5), 2-020 (65), 2-036 (1), 2-036 (28), 3-020 (28), 3-020 (3)

Mental health

Nonposters: 3-003
Posters: 1-023 (59), 3-020 (42)

Methodology

Nonposters: 2-007, 3-015, 3-034
Posters: 1-011 (43), 1-023 (29), 1-033 (45), 2-036 (26), 3-010 (32), 3-020 (36)

Moral development

Nonposters: 1-015, 3-004, 3-035
Posters: 1-011 (10), 1-040 (69), 1-040 (70), 1-040 (9), 2-010 (14), 2-010 (47), 2-010 (60), 2-010 (65), 2-020 (68), 2-036 (14), 3-020 (31)

Mother-child relations

Nonposters: 1-002, 1-031
Posters: 1-011 (65), 1-023 (5), 1-023 (52), 1-023 (59), 1-023 (67), 1-033 (42), 1-033 (66), 1-033 (67), 1-040 (36), 1-040 (54), 1-040 (67), 1-040 (68), 2-010 (34), 2-020 (54), 2-020 (69), 2-036 (15), 2-036 (42), 2-036 (65), 2-036 (66), 3-010 (34), 3-010 (38), 3-010 (64), 3-010 (65), 3-020 (32), 3-020 (40), 3-020 (42), 3-020 (43), 3-036 (59)

Motivation

Nonposters: 3-029
Posters: 2-010 (12)

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Motor Development

Nonposters: 1-021, 1-022, 1-029, 2-009, 2-025, 2-029, 2-030

Posters: 1-011 (11), 1-011 (49), 1-011 (50), 1-011 (58), 1-023 (44), 1-023 (46), 1-023 (47), 1-023 (48), 1-033 (45), 1-033 (47), 1-033 (48), 1-033 (49), 1-033 (51), 1-040 (47), 1-040 (48), 1-040 (50), 2-010 (44), 2-010 (45), 2-010 (46), 2-010 (48), 2-010 (52), 2-020 (46), 2-020 (48), 2-020 (49), 2-036 (42), 2-036 (43), 2-036 (44), 2-036 (46), 2-036 (47), 2-036 (48), 2-036 (49), 3-010 (44), 3-010 (45), 3-010 (46), 3-010 (47), 3-010 (48), 3-010 (8), 3-036 (44), 3-036 (45), 3-036 (46)

Multisensory

Nonposters: 2-029, 3-008, 3-017

Posters: 1-023 (3), 1-023 (55), 1-033 (57), 1-033 (58), 1-040 (18), 2-020 (3), 2-020 (33), 2-020 (59), 2-036 (27), 3-010 (14), 3-010 (22), 3-010 (24), 3-020 (13), 3-020 (20), 3-020 (29), 3-020 (47)

Music perception

Posters: 1-033 (56), 1-033 (64), 2-020 (12), 2-036 (45), 3-010 (55)

Nature/Nurture

Posters: 1-023 (53), 3-036 (26)

Near-Infra Red Spectroscopy

Nonposters: 1-024, 2-018, 2-034

Posters: 1-023 (49), 1-033 (12), 1-033 (29), 2-020 (30), 3-010 (26), 3-010 (27), 3-010 (30), 3-010 (66)

Neuro-imaging

Nonposters: 1-024, 2-012, 3-007

Nonhuman/comparative studies

Nonposters: 1-017, 1-022, 2-013, 3-017

Posters: 2-036 (57), 3-020 (3)

Nonparental adults

Posters: 1-023 (42), 1-040 (56)

Novelty preference

Nonposters: 1-004

Posters: 1-040 (59), 2-020 (1), 3-036 (5)

Number

Posters: 1-011 (12), 1-023 (30), 1-033 (11), 1-033 (8), 2-010 (2)

Nutrition

Posters: 2-020 (63)

Obesity

Nonposters: 1-027

Posters: 1-033 (30), 1-033 (66), 3-036 (50), 3-036 (51)

Object concept

Posters: 2-020 (4)

Object exploration

Nonposters: 3-029

Posters: 1-011 (48), 1-040 (46), 2-020 (48), 2-020 (49), 2-036 (13), 2-036 (46), 2-036 (55), 3-020 (44), 3-020 (47), 3-020 (48), 3-036 (4)

Object perception

Nonposters: 1-028

Posters: 1-011 (59), 2-010 (56), 2-020 (11), 2-036 (56), 3-020 (47)

Object permanence

Posters: 1-023 (43), 2-020 (10), 2-020 (11)

Observational methodology

Posters: 1-023 (66), 1-040 (10), 2-010 (42), 3-036 (52), 3-036 (56)

Parent-child communication

Posters: 1-011 (44), 1-040 (22), 1-040 (23), 1-040 (25), 2-020 (27), 3-020 (26), 3-036 (19), 3-036 (64)

Parent-child relationships

Nonposters: 1-020, 2-004, 3-028

Posters: 1-023 (40), 1-040 (36), 2-010 (39), 2-010 (42), 2-010 (62), 2-036 (67), 3-036 (60)

Parent-infant interaction

Nonposters: 1-027, 1-029, 1-031, 1-034, 2-028, 2-029, 3-003, 3-016, 3-030, 3-034

Posters: 1-011 (14), 1-011 (2), 1-011 (21), 1-011 (66), 1-011 (69), 1-023 (20), 1-023 (39), 1-023 (42), 1-023 (61), 1-023 (63), 1-023 (68), 1-033 (56), 1-033 (62), 1-033 (68), 1-033 (69), 1-040 (24), 1-040 (44), 1-040 (45), 1-040 (7), 2-010 (35), 2-010 (4), 2-010 (40), 2-010 (66), 2-020 (40), 2-020 (45), 2-020 (63), 2-020 (67), 2-020 (69), 2-036 (10), 2-036 (33), 2-036 (43), 2-036 (62), 3-010 (20), 3-010 (23), 3-010 (40), 3-020 (14), 3-020 (37), 3-020 (41), 3-020 (64), 3-020 (65), 3-036 (35), 3-036 (38), 3-036 (39), 3-036 (48), 3-036 (62), 3-036 (63), 3-036 (65)

Parental attitudes

Posters: 1-040 (53), 2-010 (49), 2-020 (55), 3-020 (38), 3-020 (59), 3-020 (62)

Parenting

Nonposters: 1-006, 1-009, 2-014, 2-016, 3-016, 3-019

Posters: 1-011 (69), 1-023 (50), 1-023 (52), 1-033 (37), 1-033 (52), 1-040 (39), 1-040 (42), 1-040 (55), 2-010 (37), 2-010 (38), 2-010 (58), 2-010 (63), 2-010 (67), 2-020 (43), 2-020 (44), 2-020 (66), 2-036 (38), 2-036 (40), 2-036 (52), 2-036 (53), 2-036 (63), 2-036 (64), 3-010 (41), 3-010 (42), 3-010 (65), 3-020 (42), 3-020 (60), 3-036 (27), 3-036 (44), 3-036 (65)

Perception

Posters: 1-011 (57), 1-023 (10), 1-023 (55), 1-023 (6), 2-020 (58), 2-020 (59), 2-036 (32), 3-020 (27), 3-036 (23)

Perception-Action

Nonposters: 2-002, 2-009, 3-002, 3-008

Posters: 1-011 (58), 1-023 (47), 2-020 (46), 2-020 (47), 2-020 (56), 2-036 (28), 2-036 (44), 2-036 (47), 2-036 (48), 3-010 (47), 3-010 (8), 3-020 (45), 3-020 (48), 3-036 (42), 3-036 (46), 3-036 (57)

Perceptual categories

Posters: 3-036 (24)

Phonology

Posters: 1-011 (29), 1-011 (30), 1-023 (23), 1-040 (27), 2-020 (23), 3-020 (21), 3-036 (25)

Physiology

Nonposters: 1-031

Posters: 1-023 (40), 1-023 (68), 1-033 (68), 1-040 (33), 2-020 (43), 2-020 (44), 2-036 (68), 3-010 (33), 3-010 (41), 3-010 (53), 3-020 (61), 3-036 (10), 3-036 (49)

Play

Posters: 1-023 (68), 2-020 (48)

Post partum depression

Nonposters: 2-003

Posters: 1-040 (64)

Postural control

Posters: 2-010 (43), 2-010 (44), 3-010 (44), 3-010 (47)

Pragmatics

Nonposters: 3-006

Pregnancy

Nonposters: 2-003

Posters: 1-033 (55), 1-040 (51), 2-020 (41), 2-020 (42), 2-036 (35), 3-010 (42)

Pregnancy complications/pregnancy outcomes

Posters: 1-011 (37), 1-040 (52), 2-036 (51), 2-036 (52), 3-020 (43), 3-020 (52)

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Prematurity

Nonposters: 2-003, 3-007, 3-030

Posters: 1-011 (27), 1-011 (29), 1-011 (33), 1-011 (39), 1-011 (52), 1-011 (53), 1-011 (54), 1-023 (46), 1-023 (51), 1-040 (44), 2-010 (24), 2-010 (47), 2-010 (52), 2-020 (52), 2-036 (49), 2-036 (50), 2-036 (52), 3-010 (23), 3-020 (25), 3-020 (43), 3-036 (30), 3-036 (43), 3-036 (63)

Prenatal stress

Nonposters: 1-008, 1-027, 1-039

Posters: 1-011 (37), 1-011 (40), 1-023 (31), 1-040 (52), 3-010 (39), 3-010 (42), 3-010 (52), 3-020 (52)

Problem solving

Posters: 1-033 (13), 3-010 (10), 3-020 (14), 3-020 (48)

Prosocial behavior

Nonposters: 1-003, 1-015, 1-035, 2-035, 3-004

Posters: 1-033 (38), 1-033 (63), 1-033 (64), 1-040 (60), 1-040 (65), 1-040 (68), 1-040 (69), 1-040 (8), 2-010 (11), 2-010 (63), 2-036 (69), 3-010 (35), 3-010 (68), 3-020 (34), 3-020 (61), 3-020 (69), 3-036 (58)

Psychopathology

Posters: 1-011 (51), 1-040 (37), 1-040 (70), 2-010 (53), 2-020 (50), 2-036 (53), 3-010 (49)

Psychophysiology

Nonposters: 1-031, 3-017, 3-034

Posters: 1-033 (35), 3-010 (39), 3-020 (40)

Pupillometry

Nonposters: 2-034

Posters: 1-011 (57), 1-023 (35), 2-010 (5), 2-010 (8), 2-036 (68), 3-010 (11), 3-020 (69), 3-036 (5)

Racial issues/Race

Nonposters: 1-017

Posters: 1-011 (34), 1-033 (31)

Reaching

Nonposters: 1-022, 2-019

Posters: 1-011 (48), 1-033 (44), 1-033 (46), 1-033 (47), 1-033 (48), 2-036 (55), 3-020 (44), 3-036 (42), 3-036 (45)

Reasoning

Nonposters: 2-034, 3-031

Posters: 2-010 (31), 2-010 (65), 2-020 (68), 3-010 (10), 3-010 (7), 3-020 (9)

Risk factors

Nonposters: 3-005

Posters: 1-011 (40), 1-011 (52), 1-011 (67), 1-033 (41), 1-033 (53), 1-033 (54), 2-010 (25), 2-010 (35), 2-010 (67), 3-010 (45), 3-010 (65), 3-036 (21), 3-036 (8)

Search

Posters: 2-020 (56), 3-010 (3), 3-036 (57)

Segmentation

Nonposters: 2-018

Posters: 1-023 (21), 1-033 (22), 1-040 (27), 2-010 (24), 2-010 (28), 2-010 (29), 2-020 (25), 2-036 (21), 3-010 (22), 3-010 (26), 3-020 (21), 3-020 (56)

Selective attention

Nonposters: 1-005, 2-008

Posters: 1-011 (59), 2-020 (2), 3-020 (2)

Self concept/self awareness

Posters: 1-033 (10), 1-033 (9), 3-020 (68), 3-036 (64)

Self perception

Posters: 1-033 (10), 2-020 (47)

Self regulation

Nonposters: 1-006, 1-031, 2-031

Posters: 1-033 (36), 1-033 (69), 1-040 (33), 1-040 (44), 1-040 (45), 2-010 (36), 2-020 (43), 2-020 (44), 2-036 (39), 3-010 (36), 3-010 (43), 3-010 (67), 3-020 (14), 3-020 (66), 3-036 (37)

Sex differences

Nonposters: 3-005

Posters: 1-011 (28), 1-011 (34), 1-011 (35), 1-023 (64), 1-033 (30), 1-033 (31), 1-040 (30), 2-036 (33), 3-010 (43), 3-036 (66)

Short-term memory

Posters: 3-020 (16)

Shyness

Nonposters: 1-030

Posters: 3-036 (20)

Siblings

Posters: 1-033 (53), 1-033 (54), 1-033 (6), 2-010 (34), 3-020 (63), 3-036 (55)

Sleep

Nonposters: 2-008

Posters: 1-011 (55), 1-033 (52), 1-033 (67), 1-040 (43), 1-040 (50), 2-020 (5), 2-020 (53), 2-020 (55), 2-036 (63), 3-010 (64), 3-020 (59), 3-020 (60)

Smiling

Nonposters: 3-003

Posters: 1-011 (45), 3-020 (35), 3-020 (57)

Social Perception

Nonposters: 1-015

Posters: 1-011 (56), 1-023 (11), 1-040 (60), 1-040 (67), 2-020 (64), 2-036 (58), 3-010 (11), 3-010 (37), 3-020 (31), 3-020 (32), 3-020 (33), 3-020 (54)

Social cognition

Nonposters: 1-003, 1-015, 1-028, 1-035, 2-015, 3-004, 3-006, 3-014, 3-024, 3-031, 3-033, 3-035

Posters: 1-011 (14), 1-011 (36), 1-011 (60), 1-011 (62), 1-023 (11), 1-023 (22), 1-033 (21), 1-033 (61), 1-040 (12), 1-040 (13), 1-040 (14), 1-040 (4), 1-040 (61), 1-040 (62), 1-040 (66), 1-040 (69), 1-040 (70), 1-040 (9), 2-010 (11), 2-010 (13), 2-010 (22), 2-010 (55), 2-010 (61), 2-010 (62), 2-010 (64), 2-010 (65), 2-010 (68), 2-020 (65), 2-020 (68), 2-020 (7), 2-036 (14), 2-036 (4), 2-036 (68), 3-010 (35), 3-010 (36), 3-010 (37), 3-010 (57), 3-010 (59), 3-010 (63), 3-010 (66), 3-010 (68), 3-020 (1), 3-020 (12), 3-020 (19), 3-036 (12), 3-036 (6), 3-036 (64), 3-036 (7), 3-036 (9)

Social development

Nonposters: 1-015, 1-020, 2-034

Posters: 1-011 (13), 1-011 (35), 1-011 (45), 1-011 (62), 1-011 (65), 1-023 (26), 1-023 (64), 1-033 (59), 1-033 (62), 1-040 (12), 1-040 (13), 2-010 (66), 2-020 (66), 2-036 (66), 3-010 (67), 3-020 (57), 3-020 (58), 3-020 (67), 3-020 (68), 3-020 (69), 3-036 (59), 3-036 (66)

Social interaction

Nonposters: 1-007, 1-015

Posters: 1-011 (22), 1-011 (66), 1-023 (65), 1-023 (66), 1-033 (68), 1-040 (13), 2-010 (14), 2-010 (28), 3-010 (12), 3-010 (4), 3-010 (5), 3-010 (66), 3-010 (68), 3-020 (68), 3-036 (61)

Social referencing

Posters: 1-023 (43), 1-033 (33), 2-010 (13), 2-010 (26), 2-036 (13), 3-010 (34)

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Social support

Posters: 3-010 (60)

Socialization

Posters: 2-010 (61), 2-036 (62), 3-010 (50), 3-010 (61)

Socio-economic status

Nonposters: 2-003

Posters: 1-011 (18), 1-040 (54), 1-040 (55), 2-010 (10), 2-020 (22), 3-010 (48)

Speech

Nonposters: 2-017, 2-018, 2-029, 3-002

Posters: 2-020 (24), 3-010 (21), 3-020 (26)

Speech Perception

Nonposters: 1-007, 1-034, 2-006, 2-008, 2-018, 2-029, 3-008, 3-030

Posters: 1-011 (27), 1-011 (29), 1-011 (30), 1-023 (18), 1-023 (27), 1-023 (54), 1-023 (58), 1-033 (19), 1-033 (23), 1-033 (28), 1-040 (18), 1-040 (19), 1-040 (58), 2-010 (23), 2-010 (25), 2-010 (28), 2-010 (29), 2-020 (17), 2-020 (23), 2-036 (27), 3-010 (14), 3-010 (16), 3-010 (24), 3-010 (27), 3-010 (28), 3-020 (18), 3-020 (29), 3-020 (56), 3-036 (13), 3-036 (14), 3-036 (24), 3-036 (25), 3-036 (26)

Statistical learning

Nonposters: 1-007, 1-028, 2-034

Posters: 1-011 (28), 1-023 (12), 1-033 (3), 1-033 (4), 1-033 (5), 1-040 (3), 2-010 (29), 2-010 (8), 2-020 (21), 2-020 (57), 2-020 (6), 2-020 (8), 2-036 (2), 2-036 (23), 3-010 (12), 3-020 (10), 3-020 (28)

Stereotypes

Nonposters: 3-033

Posters: 3-036 (66)

Still-face

Nonposters: 2-031, 3-017

Posters: 1-011 (39), 1-023 (37), 1-033 (32), 2-020 (40), 2-020 (67), 3-010 (33), 3-020 (65), 3-036 (30)

Stress

Nonposters: 1-008, 1-009, 1-018, 2-003, 3-009, 3-017

Posters: 1-011 (63), 1-023 (50), 2-020 (25), 2-020 (35), 3-036 (31)

Structural equation modeling

Nonposters: 1-009

Posters: 1-023 (53), 2-010 (38), 3-010 (62), 3-020 (39), 3-020 (52)

Substance use/abuse

Posters: 1-033 (42), 1-033 (55), 2-020 (54)

Syntax

Nonposters: 2-018

Posters: 1-040 (20), 2-010 (27), 2-020 (18)

Television

Posters: 1-023 (24), 2-020 (55), 2-036 (25), 3-010 (4), 3-036 (27)

Temperament

Nonposters: 1-008, 1-009, 2-016, 2-028, 2-035, 3-015

Posters: 1-011 (51), 1-011 (53), 1-011 (67), 1-011 (68), 1-011 (69), 1-023 (31), 1-023 (36), 1-023 (37), 1-023 (38), 1-023 (41), 1-023 (42), 1-023 (9), 1-033 (40), 1-033 (69), 1-040 (2), 1-040 (31), 1-040 (38), 1-040 (41), 1-040 (43), 1-040 (45), 2-010 (41), 2-010 (67), 2-020 (29), 2-020 (34), 2-020 (39), 2-020 (41), 2-020 (42), 2-036 (38), 2-036 (39), 2-036 (40), 2-036 (41), 2-036 (50), 2-036 (53), 2-036 (67), 3-010 (15), 3-010 (41), 3-010 (43), 3-010 (61), 3-010 (67), 3-020 (39), 3-020 (41), 3-020 (62), 3-020 (66), 3-036 (32), 3-036 (34), 3-036 (48)

Theory of Mind

Nonposters: 1-028, 3-024, 3-031, 3-034

Posters: 1-023 (60), 1-040 (11), 1-040 (14), 1-040 (26), 2-036 (22), 3-010 (31), 3-036 (9)

Tool use

Posters: 1-011 (13), 1-033 (13), 1-040 (10), 1-040 (48), 2-020 (49), 2-036 (47), 2-036 (48), 3-020 (45), 3-036 (11), 3-036 (4), 3-036 (46)

Touch

Nonposters: 3-017

Posters: 2-010 (47), 2-036 (49), 3-010 (38), 3-020 (33), 3-036 (10)

Trajectories

Nonposters: 1-039, 2-003

Posters: 1-011 (50), 1-023 (10), 1-033 (32), 1-033 (37), 2-010 (66), 2-020 (19), 2-020 (3)

Triadic interaction

Nonposters: 1-009

Posters: 1-011 (18), 1-011 (21)

Visual Evoked Potential

Posters: 1-023 (45), 2-020 (31), 3-036 (36)

Visual perception

Nonposters: 1-017, 1-032, 2-024, 3-002

Posters: 1-011 (49), 1-033 (46), 1-033 (58), 1-040 (60), 2-020 (13), 2-020 (31), 2-036 (54), 2-036 (56), 3-020 (11), 3-036 (43), 3-036 (54), 3-036 (56)

Visual preference

Nonposters: 1-017

Posters: 1-023 (6), 1-033 (4), 1-033 (6), 2-036 (57), 2-036 (58), 3-010 (63), 3-020 (13), 3-020 (24), 3-020 (8), 3-036 (3), 3-036 (56)

Visual recognition memory

Posters: 2-036 (5), 3-010 (1), 3-010 (58), 3-036 (5)

Visuospatial

Posters: 1-011 (12), 1-033 (11), 1-040 (3), 2-010 (56), 2-020 (57), 2-036 (29), 2-036 (30), 3-020 (10)

Vocabulary development

Nonposters: 1-007, 1-019, 2-018, 3-027, 3-030

Posters: 1-011 (20), 1-023 (14), 1-023 (24), 1-033 (26), 1-033 (27), 1-040 (17), 1-040 (21), 1-040 (28), 1-040 (29), 2-010 (20), 2-010 (21), 2-010 (27), 2-020 (19), 2-020 (20), 2-020 (29), 3-036 (18), 3-036 (22), 3-036 (27)

Vocalization/vocal learning

Nonposters: 1-026, 2-017, 3-008

Posters: 1-023 (16)

Walking

Posters: 1-023 (48), 1-033 (49), 1-040 (49), 2-010 (46), 3-010 (48), 3-020 (49)

Word Learning

Nonposters: 1-002, 1-007, 1-028, 1-032, 1-034, 2-008, 2-018, 3-013, 3-023, 3-027, 3-030

Posters: 1-011 (22), 1-011 (25), 1-023 (25), 1-023 (26), 1-023 (27), 1-033 (16), 1-033 (20), 1-033 (26), 1-033 (27), 1-033 (7), 1-040 (28), 1-040 (29), 2-010 (19), 2-010 (23), 2-010 (26), 2-020 (16), 2-020 (28), 2-036 (23), 2-036 (24), 2-036 (28), 3-010 (13), 3-010 (15), 3-010 (6), 3-020 (15), 3-020 (20), 3-020 (23), 3-020 (24), 3-020 (28), 3-020 (29), 3-020 (55), 3-036 (16), 3-036 (17), 3-036 (19), 3-036 (20)

Working memory

Posters: 2-020 (30), 2-036 (16), 2-036 (3), 2-036 (5), 3-020 (2)