



International Conference on Infant Studies

Berlin, Germany

July 3-5, 2014

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General Information

Exhibits & Poster Sessions

Exhibits and poster sessions are located in The Hall Maritim

Exhibit hours are as follows:

| | |
|------------------|--------------------|
| Thursday, July 3 | 9:00 AM - 7:30 PM |
| Friday, July 4 | 9:00 AM - 7:30 PM |
| Saturday, July 5 | 9:00 AM - 12:00 PM |

Registration

The registration area in the Maritim Hotel Main Lobby will be open during the following hours:

| | |
|-------------------|-------------------|
| Wednesday, July 2 | 6:00 PM - 8:00 PM |
| Thursday, July 3 | 7:30 AM - 6:30 PM |
| Friday, July 4 | 7:30 AM - 7:30 PM |
| Saturday, July 5 | 7:30 AM - 3:30 PM |

Membership Information

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

Review Panels

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

Panel 1 – Motor and Sensorimotor Processes

Chair: Daniela Corbetta

Reviewers: David Anderson*, Iryna Babik, Neil Berthier, Anjana Bhat, Blandine Brill, Regina Harbourne, Louise Rönnqvist, Kasey Soska, Beverly Ulrich.

Panel 2 – Developmental Neuroscience

Chair: Michelle de Haan

Reviewers: April Benasich, Leslie Carver, Gergo Csibra, Peter Marshall, Mikko Peltola, Greg Reynolds, Athena Vouloumanos, Eva Zita Patai, Helen O'Reilly.

Panel 3 – Perception and Attention

Chair: Gustaf Gredebäck

Reviewers: Benjamin Balas, Jean-Paul Boudreau, Moritz Daum, Terje Falck-Ytter, Christine Fawcett, Niusha Ghazban, Sabine Hunnius*, Ben Kenward, Ulf Liszkowski, Vincent Reid, Kristin Shutts, Jessica Sommerville.

Panel 4 – Communication and Language

Chair: Heather Bortfeld

Reviewers: Martijn Baart, Tessa Bent, Suzanne Curtin*, Eswen Fava, Cynthia Fisher, Judit Gervain, Roberta Golinkoff, Rebecca Gomez, Katherine Graf Estes, Jessica Hay, Barbara Hoehle, Jana Iverson, Elizabeth Johnson, Jeffrey Lidz, Monika Molnar, Jim Morgan, Thierry Nazzi, Jenny Saffran, Leher Singh, Dan Weiss, Janet Werker, Katherine White, Laurence White.

Panel 5 – Memory and Learning

Chair: Mary Courage

Reviewers: Rachel Barr, Patricia Bauer, Ann Bigelow, Kimberly Cuevas, Petra Hauf, Harlene Hayne, Heather Kirkorian, Andrew Meltzoff, Mark Nielsen*, Susan Rose, Gabrielle Simcock.

Panel 6 – Cognitive Development

Chair: Sabina Pauen

Reviewers: Gisa Aschersleben, Renée Baillargeon, David Buttelmann, Birgit Elsner, Claudia Fischer, Emma Flynn, Anne Henning, Mikolay Hernik, Stefanie Höhl, Michael Kavsek, Sarah Lloyd-Fox, Olivier Mascaró, Markus Paulus, Diane Poulin-Dubois, Beate Sodian, Birgit Träuble, Teresa Wilcox, Rebecca Woods.

Panel 7 – Social Development

Chair: David Haley

Reviewers: Heidi Bailey, Marc Bornstein, Julie Braungart-Rieker, Maayan Davidov, Gedeon Deák, Jennifer DiCorcia, Tobias Grossmann, Amie Hane, Stefanie Höhl, Cindy Liu, Lili Ma, Ginger Moore, Julie Petrie-Thomas, Rebecca Pillai Riddell, Bethany Reeb-Sutherland, Amanda Tarullo, Renee Tobin, Michael Tomasello, Eric Walle.

Panel 8 – Emotional Development

Chair: Dale Stack

Reviewers: Kim Bard, Annie Bernier, Pamela Cole, Elizabeth Davis, Kristen Dunfield, Hideko Hamada Bassett, Maria Hernandez-Reif, Hui-Chin Hsu, Lynne Koester*, Célia Matte-Gagné, Daniel Messinger, Rosemary Mills, Rosario Montiroso, Réjean Tessier.

Panel 9 – Pediatric Issues, Psychopathology and Developmental Delay

Chair: Susan Rivera

Reviewers: Lisa Berlin*, Margaret Briggs-Gowan, Alice Carter, Ann Mastergeorge, Seth Pollak, Sally Rogers, Sara Jane Webb.

Preconference and Additional Events

What Infants See in the Real World: Pre-Conference Meeting on Head-Mounted Eye Tracking
Wednesday 2nd July 2014, 5 – 8 pm
Salon 1 / Moscow, Maritim Hotel, Berlin, Germany

Registration: Although there are no costs to register, pre-registration is required as the number of places available is limited. Please preregister before Friday 6th June by e-mailing Hanna Mulder at h.mulder2@uu.nl

Head-mounted eye tracking is a novel technique which can be used to study what infants see in the real world, as they explore their environment and engage in interactions with objects and people. This pre-conference meeting aims to bring together researchers working with head-mounted eye tracking and head cameras in infancy research, as well as researchers interested in learning about the methodology and application of these techniques. The meeting will consist of two sessions. The first session is focused on methods, data analysis, and theory. The second session is focused on the application of this methodology in different developmental domains, such as infant vision, and social, language, and motor development. The meeting is open to researchers working with head-mounted eye tracking and head cameras, as well as researchers who are interested in learning about the methodology and application of these tools.

Speakers: John Franchak (Indiana University), Jason Babcock (Positive Science, New York), Yukie Nagai (Osaka University), Karen Adolph (New York University), Chen Yu (Indiana University), Linda Smith (Indiana University), Hanako Yoshida (University of Houston), and Kari Kretch (New York University)

Organizers: Sam Wass (MRC Cognition and Brain Sciences Unit, Cambridge, UK) and Hanna Mulder (Department of Special Education, Utrecht University, the Netherlands).

Sponsor: the meeting is sponsored by Positive Science (<http://www.positivescience.com/>)

ACT Pre-conference in Action Development: Theory and Methods
Wednesday 2nd July 2014, 8:30am - 6:30pm
Maritim Hotel, Berlin, Germany

Registration: Fees will be 70€ and are inclusive of two coffee breaks and a lunch buffet. Registration Deadline is 2nd June 2014. For any inquiries regarding registration please contact registration@eu-act.org.

ACT is pleased to announce a pre-conference in Action Development: Theory and Methods, on 2nd July 2014, coinciding with ICIS 2014 in Berlin, Germany. The field of developmental action research, with its associated methodological innovations, is rapidly growing. The primary objective of this pre-conference is to promote the exchange of research advances relating to action comprehension and action execution during infancy and toddlerhood. In addition, our goal is to discuss how new technologies and methodological improvements enrich our understanding of action processing in development. Abstracts are accepted through 11th April 2014. Website: <http://eu-act.org/icis-pre-conference>

Preconference and Additional Events

Computational Models of Infant Development
Wednesday 2nd July 2014, 2:00pm - 6:00pm
Salon 16 / Riga, Maritim Hotel, Berlin, Germany

Registration and Poster Presentation: Participation of the workshop is free of charge. In order to register please use [this link](#) and follow the instructions. The workshop will comprise a poster session.

Participants can apply for a poster presentation within the above registration form. Seating at the venue as well as poster boards are limited and registrations will be handled on a first come first serve basis. Recent years have seen a growing interest in using computational modeling to complement classic experimental approaches for studying infant development. This workshop is aimed at modelers and non-modelers alike. It showcases recent successes of the fruitful interaction of empirical and theoretical/computational research in infant development. Leading theorists will highlight how careful theoretical work can lead to a better understanding of empirical data and generate testable predictions for future experiments. A second aim of the workshop is to compare different modeling approaches or „schools“ including neural networks, Bayesian reasoning, and dynamical systems, emphasizing their respective strengths and weaknesses.

Speakers: Josh Tenenbaum (MIT), Denis Mareschal (Birkbeck, University of London), Verena V. Hafner (Humboldt University Berlin), Minoru Asada (Osaka University), Gregor Schöner (University of Bochum), Hiroki Mori (Osaka University)

Organizers: Jochen Triesch, Matthew Schlesinger, Matthias Rolf, Minoru Asada

Sponsors: [Japan Society for the Promotion of Science \(JSPS\)](#) and [Frankfurt Institute for Advanced Studies \(FIAS\)](#)

For more information please visit this website:

<http://www.er.ams.eng.osaka-u.ac.jp/icis2014-preconference/>

Advancing Interdisciplinary Research in Singing: Breakfast Reception on the Development of Singing, Singing and Education, and Singing and Wellbeing
Friday 4th July 2014, 7:15am – 9:15am
Salon 11 / Madrid, Maritim Hotel, Berlin, Germany

Registration: Although there are no costs to register, pre-registration would be appreciated as the number of places available is limited. Please pre-register by emailing Petra Hauf at phauf@stfx.ca

The human voice and mind together support two natural expressive abilities, speaking and singing. Each ability serves distinct though sometimes overlapping functions. The acquisition and nature of speech has been the focus of a vast research enterprise. In contrast, less scholarly inquiry has been directed to singing, to its acquisition, its perceptual-cognitive processes, social roots, and potential for cross-cultural communication. Linked to social, cultural, and biological development, the study of singing draws on many disciplines and submits to many forms of methodological exploration and analysis. Recognizing a need for a comprehensive framework, an international collaboration of over 70 scholars in the humanities and social sciences started in 2009 to Advance Interdisciplinary Research in Singing (AIRS). Together, the AIRS collaborators aim to integrate new multidisciplinary knowledge about singing from the perspectives of psychology, music, education, linguistics, sociology, anthropology, and folklore, assisted by computer science and audio engineering. This unique team addresses three research themes: 'Development of Singing', 'Singing and Education' and 'Singing and Well-being' and develops an interactive web-based virtual research environment (<http://www.airsplace.ca>), enabling discussions and information sharing across Canada and beyond. The site hosts a one-of-a-kind digital library database of singing.

Organizers: Petra Hauf (St. Francis Xavier University, Nova Scotia, Canada) & Annabel Cohen (University of Prince Edward Island, Canada)

Preconference and Additional Events

Sponsor: The breakfast reception is sponsored by AIRS (<http://www.airspace.ca>) and SSHRC (Social Sciences and Humanities Research Council, Canada)

European Research Council Workshop
Saturday 5 July 2014, 12:45pm - 2:00pm
Salon 7, Maritim Hotel, Berlin, Germany

The ERC aims to stimulate scientific excellence in Europe by supporting the very best scientists, scholars and engineers in any field of research. Through Europe wide peer reviewed competition with scientific excellence as the sole selection criterion the brightest ideas at the frontiers of knowledge are funded. There are neither thematic priorities, nor geographical quotas. The competitions are open to top researchers from anywhere in the world, provided they are based in or are moving to Europe.

The ERC has a set of funding instruments providing opportunities to the most promising and top researchers. ERC Starting and Consolidator Grants aim to support up-and-coming research leaders who are about to establish or consolidate a proper research team and to start conducting independent research in Europe. ERC Advanced Grants allow exceptional established research leaders of any nationality and any age to pursue ground-breaking, high-risk projects that open new directions in their respective research fields or other domains. In addition, the ERC launched in March 2011 the "Proof of Concept" initiative aiming at providing ERC grantees with additional funding to bridge the gap between their project and early stage of innovation. This symposium, bringing together representative of the Scientific Council, Grantees and ERC Scientific Officer, aims to give an overview of ERC activities.

Chair:

- Nuria Sebastian Galles (Vice-President of the ERC Scientific Council, ERC AdG Grantee)

Speakers:

- Emmanuel Dupoux - Ecole Normale Supérieure, Paris (ERC AdG Grantee)
- Gustaf Gredebäck - Uppsala University (ERC StG Grantee)
- Sid Kouider - Ecole Normale Supérieure, Paris (ERC StG Grantee)
- Agnes Kovacs – Central European University (ERC StG Grantee)
- Juan Manuel Toro - University Pompeu Fabra (ERC StG Grantee)
- Chiara Turati - University of Milano–Bicocca (ERC StG Grantee)
- Pilar Lacruz – European Research Council Executive Agency, Brussels

Conversation Hour with the NSF Developmental and Learning Sciences Program Director
Saturday 5 July 2014, 12:45pm - 2:00pm
Salon 4+5, Maritim Hotel, Berlin, Germany

Speaker: Laura Namy, United States National Science Foundation

Come participate in an open question and answer session on funding opportunities within NSF for developmental scientists, and best practices for preparing competitive grant proposals. Feel free to bring your lunch!

Invited Program

Thursday, July 3, 2014

8:00 AM - 9:30 AM; Hall Berlin B, Tutorial Symposium

1-001. **Shedding light on developing brain function using fNIRS**

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

Speakers: Judit Gervain (Paris Descartes University), Daniel Hyde (University of Illinois) and Sarah Lloyd-Fox (University of London)

9:45 AM - 11:15 AM; Hall Berlin C, Presidential Symposium

1-010. **ICDSS/ICIS Presidential Symposium on Development during Infancy in Cultural Context**

Chair: Daphne Maurer (McMaster University)

Speakers: Heidi Keller (Osnabrück University), Philippe Rochat (Emory University) and Lia Fernald (University of California, Berkeley)

11:30 AM - 12:30 PM; Hall Berlin B, Invited Speaker

1-018. **A genetic perspective on speech and language development**

Chair: Núria Sebastián-Gallés (Universitat Pompeu Fabra)

Speaker: Simon Fisher (Max Planck Institute for Psycholinguistics)

11:30 AM - 12:30 PM; Hall Berlin C, Invited Speaker

1-019. **What babies can teach us about adult dementia: a multidisciplinary approach**

Chair: Daphne Maurer (McMaster University)

Speaker: Annette Karmiloff-Smith (Birkbeck, University of London)

1:30 PM - 3:00 PM; Hall Berlin B, Tutorial Symposium

1-020. **Tutorial in Epigenetics**

Chair: Iñaki Martin-Subero (University of Barcelona)

Speakers: Tim Oberlander (Children's & Women's Health Centre of British Columbia) and Bas Heijmans (Leiden University Medical Center)

1:30 PM - 3:00 PM; Hall Berlin C, Dedicated Session

1-021. **In Honor of Jacques Mehler**

Chair(s): Emmanuel Dupoux

Speaker(s): Jacques Mehler (Language, Cognition and Development Lab, SISSA), Judit Gervain (Paris Descartes University), Mohinish Shukla (University of Massachusetts Boston) and Ágnes Kovács (Central European University)

5:00 PM - 6:00 PM; Hall Berlin B+C, Keynote Speaker

1-038. **A Kantian Animal: Core Knowledge of object, space and number**

Chair: Mark Johnson (Birkbeck, University of London)

Keynote Speaker: Giorgio Vallortigara (University of Trento)

Friday, July 4, 2014

8:00 AM - 9:30 AM; Hall Berlin B, Invited Symposium

2-001. **Developmental pathways to autism in infants at risk**

Chair(s): Terje Falck-Ytter (Uppsala University)

Discussant(s): Gustaf Gredeback (Uppsala University)

Speaker(s): Emily Jones (Birkbeck College, University of London), Jason Wolff (Carolina Institute for Developmental Disabilities), Petra Warreyn (Ghent University) and Katarzyna Chawarska (Yale University)

Invited Program

Friday, July 4, 2014 Continued

- 9:45 AM - 11:15 AM**; Hall Berlin C, Dedicated Session
2-010. **In Honor of Scania de Schonon**
Chair(s): Olivier Pascalis (CNRS)
Speaker(s): Scania de Schonon (Paris Descartes University), Chiara Turati (University of Milano–Bicocca), Adelaide de Heering (Universite Catholique de Louvain), Frédérique Liégeois (University College London) and Christine Deruelle (Aix-Marseille University)
- 11:30 AM - 12:30 PM**; Hall Berlin B, Invited Speaker
2-018. **'Specificity of effects' of parenting impairments in the context of postnatal depression, and implications for intervention**
Chair(s): Denis Mareschal (Birkbeck, University of London)
Speaker(s): Lynne Murray (University of Reading)
- 11:30 AM - 12:30 PM**; Hall Berlin C, Invited Speaker
2-019. **Learning where to look: infants, models, robots**
Chair(s): Gert Westermann (Lancaster University)
Speaker(s): Jochen Triesch (Frankfurt Institute for Advanced Studies)
- 1:30 PM - 3:00 PM**; Hall Berlin C, Invited Symposium
2-020. **Debate: Imitation and the Mirror Neuron System**
Chair(s): Denis Mareschal (Birkbeck, University of London)
Speaker(s): Andrew Meltzoff (University of Washington), Cecilia Heyes (All Souls College, University of Oxford) and Harold Bekkering (Donders Institute, Radboud University)
- 6:00 PM - 7:00 PM**; Hall Berlin B+C, Presidential Address
2-039. **Presidential Address**
Speaker(s): Daphne Maurer (McMaster University)

Saturday, July 5, 2014

- 8:00 AM - 9:30 AM**; Hall Berlin B, Invited Symposium
3-001. **The integrity of the young nervous system**
Chair(s): Peter Marschik (Medical University of Graz)
Speaker(s): Christa Einspieler (Medical University of Graz), Lonnie Zwaigenbaum (Alberta Health Services), Lori-Ann Sacrey (University of Alberta) and Helen Tager-Flusberg (Boston University)
- 9:45 AM - 11:15 AM**; Hall Berlin C, Dedicated Session
3-010. **In Honor of Janette Atkinson**
Chair(s): Marko Nardini (Durham University)
Speaker(s): Janette Atkinson (University College London), Bruce Hood (University of Bristol), Terri Lewis (McMaster University) and Claes von Hofsten (Uppsala University)
- 11:30 AM - 12:30 PM**; Hall Berlin B, Invited Speaker
3-018. **The Developing Human Connectome Project**
Chair(s): Mark Johnson (Birkbeck, University of London)
Speaker(s): David Edwards (King's College London)
- 11:30 AM - 12:30 PM**; Hall Berlin C, Invited Speaker
3-019. **Human infants expect kind-referring signals in ostensive communication**
Chair(s): Victoria Southgate (Birkbeck, University of London)
Speaker(s): Gergely Csibra (Central European University)
- 2:00 PM - 3:00 PM**; Hall Berlin B+C, Keynote Speaker
3-020. **The Evolutionary Origins of Human Cognitive Development: Insights from Research on Chimpanzees**
Chair(s): Daphne Maurer (McMaster University)
Keynote Speaker(s): Tetsuro Matsuzawa (Primate Research Institute, Kyoto University)

Exhibitors, Advertisers, and Sponsors

Exhibitors

Artinis – Booth # 8

Artinis makes fNIRS imaging and oxygenation measurements easy and affordable with fit to purpose solutions, for both adults and children, with easy upgrades and highly flexible, sensitive and portable systems. <http://artinis.com/>

Brain Products GmbH – Booth # 11

Brain Products is a leading manufacturer of solutions for neurophysiological research with more than 15 years of experience in state-of-the-art solutions for EEG/ ERP/ EP, EEG & fMRI, EEG & TMS, EEG & MEG. We look forward to meeting you! <http://www.brainproducts.com/>

Databrary – Booth # 3

Databrary is a library for developmental researchers to share video and associated metadata. The Databrary project also includes Datavyu, a free tool that enables coding, exploring, and analyzing video data.

Visit <http://databrary.org/> and <http://datavyu.org>

Electrical Geodesics, Inc. (EGI) – Booth # 12

Whole-head, fMRI-compatible EEG systems include the easy and comfortable Geodesic Sensor Net, amplifier, and software. EGI also offers source estimation software, experimental control workstations and integrated eye tracking systems. <http://www.egi.com/>

Mangold International – Booth # 4 & 9

Mangold International is a world leading provider for observational research labs. Our integrated, easy to use hardware and software solutions enable researchers from different disciplines professional observational studies. More at www.mangold-international.com.

Noldus Information Technology – Booth # 10

With 25 years of experience we translate your questions into proven solutions and services. Our labs come complete with The Observer XT, eye trackers, and data acquisition systems and are ideal to study infant behavior and development. <http://www.noldus.com/>

Oxford University Press – Booth # 5

OUP's publishing represents the scientific study of behaviour in all its extraordinary diversity. All our recent and popular infant studies titles will be available for sale at the OUP stand. <http://www.oup.com/>

SensoMotoric Instruments (SMI) – Booth # 6

RED remote eye trackers and SMI Eye Tracking Glasses 2.0 by SensoMotoric Instruments (SMI) allow researchers to study visual behavior of babies and young children in laboratory and natural settings.

<http://www.smivision.com/>

Springer – Booth # 1

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. <http://www.springer.com/>

SR Research Ltd. – Booth # 2

SR Research Ltd. Is the creator of the EyeLink eye trackers, suitable for tracking participants of all ages (including freely moving infants) with exceptional accuracy and temporal resolution. <http://www.sr-research.com/>

Tobii Technology – Booth # 7

Tobii is the world's leading vendor of eye tracking technology to study human behavior. Our products are used in developmental psychology, cognitive psychology, ophthalmology, neurophysiology, reading studies and primate research. <http://www.tobii.com/en/eye-tracking-research/global/>

Exhibitors, Advertisers, and Sponsors

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[Electrical Geodesics](http://www.eji.com/) (<http://www.eji.com/>)

Resource Table

[Karger](http://karger.com/) (<http://karger.com/>)

Resource Table

Sponsors

[Association for Psychological Science](http://www.psychologicalscience.org/) (<http://www.psychologicalscience.org/>)

Karmiloff-Smith Invited Speech & Coffee Break

[Databrary](http://databrary.org/) (<http://databrary.org/>)

Internet Center

[Jacobs Foundation](http://jacobsfoundation.org/) (<http://jacobsfoundation.org/>)

Jacobs Foundation Travel Awards

[Mangold International](http://www.mangold-international.com/) (<http://www.mangold-international.com/>)

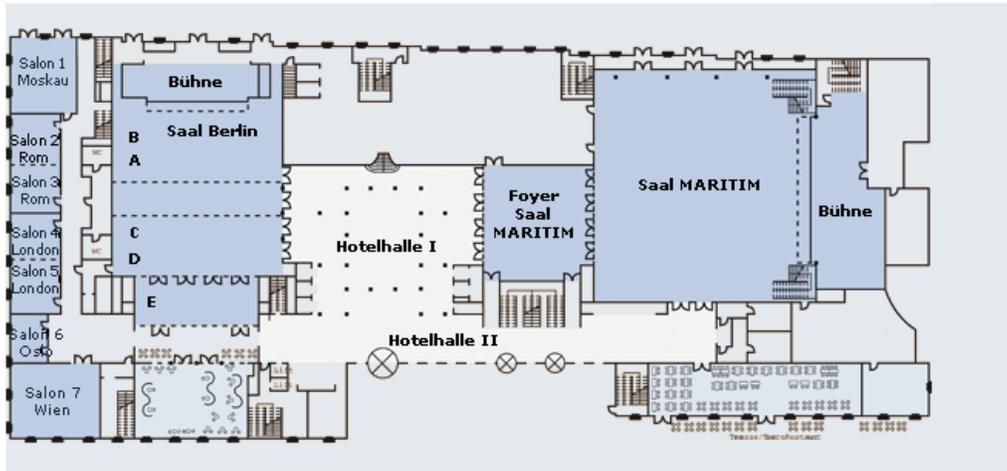
Graduate Student Travel Awards

[Wiley-Blackwell Publishers](http://onlinelibrary.wiley.com/) (<http://onlinelibrary.wiley.com/>)

Graduate Student Travel Awards

Maritim Hotel

Ground Floor



First Floor

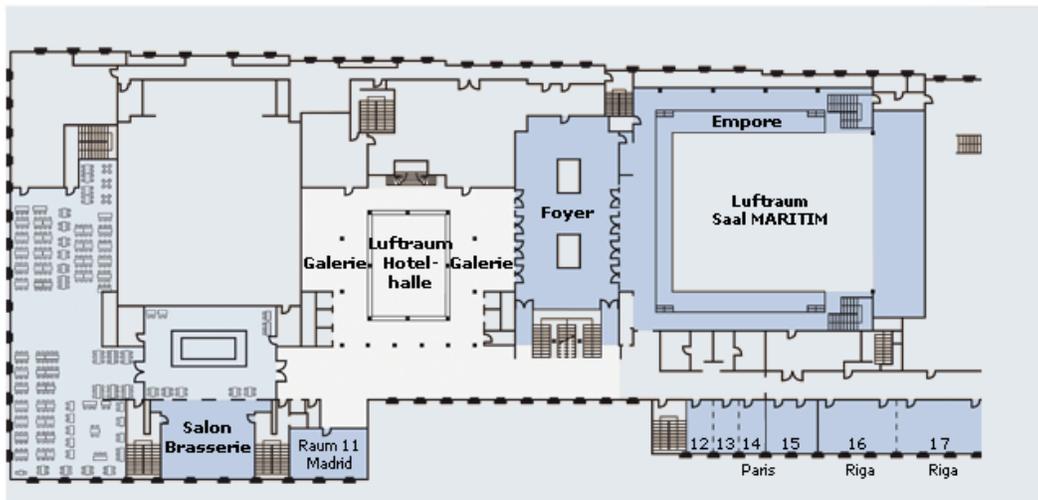
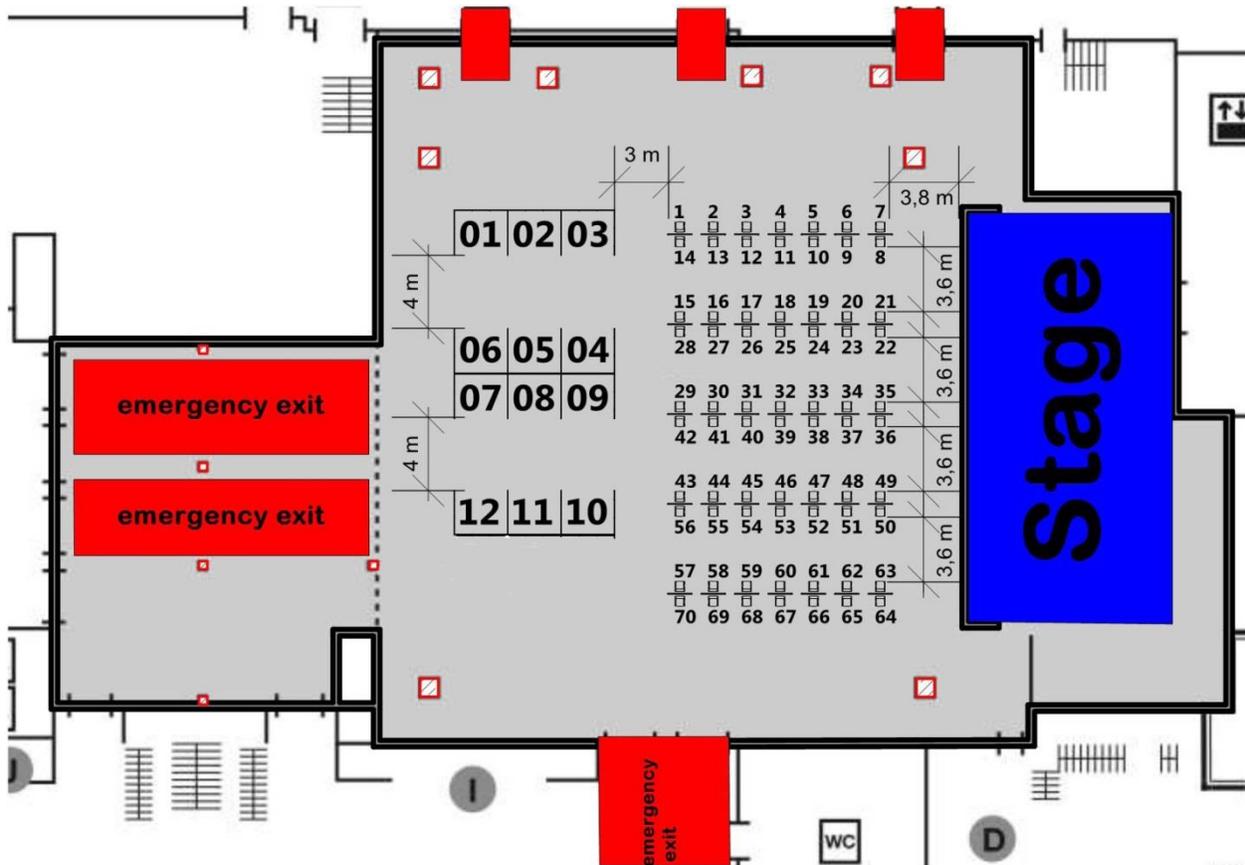


Exhibit Hall Detail: Poster Boards and Exhibits



Thursday

Thursday, 8:00 am - 9:30 am

(Event 1-001) Tutorial Symposium
Hall Berlin B
Thursday, 8:00 am - 9:30 am

Shedding light on developing brain function using fNIRS

Chair: Tobias Grossmann

- Speech Perception at Birth: An Infrared Look into the Newborn Brain
Judit Gervain
- Using NIRS to assess functional brain organization and domain specificity in infancy: Numerical cognition as a test case
Daniel Hyde
- Novel application of fNIRS to assess infant development in rural Africa
Sarah Lloyd-Fox

Abstract: More than a decade ago near-infrared spectroscopy (NIRS) was first used to study functional brain activation in infants. Since then we have witnessed a considerable increase in the use of this method to study infant brain function. This is mainly because NIRS, other than functional magnetic resonance imaging (fMRI), is well suited for infancy research as it can measure spatially localized brain response while allowing for a good degree of movement enabling infants to sit upright on their parent's lap in a noise-free environment. The existing body of fNIRS work with infants has provided important and novel insights into the early development of perceptual and cognitive processes. Given the impact that the work using fNIRS has had on the progress in our field it seems important and timely to provide infant scientists with a comprehensive introduction to the use of this method. In a unique format, this symposium will provide a broad range of information regarding the method and its use. Specifically, the first presentation by Grossmann has the form of a tutorial in which all critical issues starting from study design to data analysis will be addressed. This tutorial is meant to inform infant scientists about this method from a user's perspective. This will be followed by a series of presentations that are dedicated to more specific topics related to the use of fNIRS.

First, Gervain will be sharing her expertise working with newborns on the neural basis of speech perception. Second, Hyde will be presenting work using the neural adaptation method to examine number cognition in infants. Third, Lloyd-Fox and colleagues will be talking about new ways of using fNIRS to study infant development in rural Africa. This special combination of a step-by-step tutorial to fNIRS and more specific presentations focusing on particular topics provides a comprehensive overview of how fNIRS is shedding light on developing brain function and should therefore be of great interest for a broad range of infant scientists.

(Event 1-002) Paper Symposium
Salon 1
Thursday, 8:00 am - 9:30 am

Advantages of Early Multi-Language Exposure: Beyond Executive Functions

Chair: Natalie H. Brito

Discussant: Núria Sebastián-Gallés

- Influence of Early Multiple Language Exposure on Memory Generalization
Natalie Brito, Rachel Barr
- Early exposure to a multilingual environment facilitates effective social communication
Katherine Kinzler, Zoe Liberman, Samantha Fan, Boaz Keysar, Amanda Woodward
- Does minimal exposure to a second language affect reference disambiguation and cognitive control in 19-month-olds?
Ágnes Kovács

(Event 1-003) Paper Symposium
Salon 12-15
Thursday, 8:00 am - 9:30 am

Early Encounters with Parental Negative Emotionality Predict Emotional and Biological Self-Regulation in Childhood

Chair: Elizabeth Davis

Thursday

- The Development of the Dynamic Still-Face Effect with Mothers and Fathers
Naomi Ekas, Julie Braungart-Rieker
- Non-supportive emotion parenting of shy toddlers predicts emotion regulation deficits in kindergarten
Elizabeth Davis, Kristin Buss
- Maternal Negative Affect During Infancy Predicts Disrupted Patterns of Biological Regulation During Childhood
Rebecca Brooker, Richard Davidson, H. Hill Goldsmith

(Event 1-004) Paper Symposium
Salon 16
Thursday, 8:00 am - 9:30 am

The Emotional Foundations of Early Prosocial Behavior

Chair: Amrisha Vaish

- The Prosocial Functions of Guilt in Early Development
Amrisha Vaish, Harriet Over, Malinda Carpenter, Michael Tomasello
- Social Emotions Influence Young Children's Prosocial Motives and Reinforce Their Helping Behavior
Robert Hepach, Amrisha Vaish, Michael Tomasello
- 'Tis Better to Give Than to Receive - Giving to Others Makes Toddlers in North America and Young Children in Vanuatu Happy
J. Hamlin, Lara Aknin, Tanya Broesch
- The Role of Moral Emotions and Moral Reasoning in Children's Donating and Sharing Behaviours
Tina Malti, Sophia Ongley

(Event 1-005) Paper Symposium
Salon 17
Thursday, 8:00 am - 9:30 am

Disliking the Other: Understanding the Roots of Bias and Discrimination

Chair: Karen Wynn

- Mechanisms of Intergroup Attitude Formation

- *Rebecca Bigler, Lynn Liben*
- A Tale of Two Biases: Dual Influences on the Development of Race Bias
Kristina Olson, Kristin Shutts, Yarrow Dunham
- "A matter of opinion": An early bias for same-thinking others
Karen Wynn
- The motivational roots of social categorization in infancy
Matar Ferera, Gil Diesendruck

(Event 1-006) Paper Symposium
Salon 2+3
Thursday, 8:00 am - 9:30 am

Sleep and Cognition in Infancy: Causal Links, Individual Differences, and Long-Term Associations

Chair: William P. Fifer

- Infant Sleep Predicts Attention Regulation and Behavior Problems in Preschool Children
Avi Sadeh
- Learning During Sleep in Late Preterm and Early Term Newborns
Nina Burtchen, Joel Yang, Jacquelyn Piraquive, William Fifer
- Effects of Sleep on Auditory Memory Processing in Infants
Katharina Zinke, Tamara Matuz, Jan Born
- Naps Enhance Declarative Memory in 6- and 12-Month-old Infants
Carolin Konrad, Sabine Seehagen, Silvia Schneider, Lea Lockmann, Jane Herbert

(Event 1-007) Paper Symposium
Salon 4+5
Thursday, 8:00 am - 9:30 am

Development of Face Processing in Infancy: Behavioral, Eye Tracking, and Neuroimaging Studies

Chair: Olivier Pascalis

Thursday

- Inhibition of Return for Faces: Eye-Tracking Evidence from 4- and 7-month-old Infants
Elena Natale, Valentina Ghirardi, Francesca Simion
- Rigid Facial Movement Influences the Development of Face Processing in Infancy: an Eye Tracking Study
Naiqi Xiao, Paul Quinn, Shaoying Liu, Liezhong Ge, Kang Lee
- Perceptual Learning and Face processing in Infancy
Ramesh Bhatt, Ashley Kangas, Alyson Hock, Leah Oberst
- Processing of Facial Identity in Infants' Brain: fNIRS-adaptation Studies
Masami Yamaguchi, Megumi Kobayashi

(Event 1-008) Paper Symposium
Salon 7
Thursday, 8:00 am - 9:30 am

Actions shape perception: Relations between motor skills and infants' understanding of objects and people

Chair: Gudrun Schwarzer

- Change in object-directed looking patterns throughout the transition to reaching
Daniela Corbetta, Sabrina Thurman, Rebecca Wiener, Yu Guan, Joshua Williams
- Link between 9-month-old infants' motor skills and their understanding of the three-dimensional nature and rotation of objects
Gudrun Schwarzer, Theresa Gerhard, Julia Dillmann, Annette Schwerdtner, Claudia Freitag
- The Role of Self-Locomotion on Infants' Perception of Crawling and Walking Movements
Petra Hauf
- Grasping and Fine Motor Development in Infants at High Risk for Autism Spectrum Disorders
Klaus Libertus, Kelly Sheperd, Rebecca Landa

Thursday, 9:30 am - 11:00 am

(Event 1-009) Poster Session 1

Hall Maritim (Exhibit Hall)

Thursday, 9:30 am - 11:00 am

- 1 Comparing the processing of observed reaching actions in adults and infants: an eyetracking study
Maurits Adam, Ivanina Henrichs, Frank Papenmeier, Anne Hellner, Birgit Elsner
- 2 Action Prediction is Automatic in Infants and Adults
Alexis Barton, Bennett Bertenthal
- 3 Attentional response to emotion faces is modulated by infant temperament
Ross Vanderwert, Charles Nelson
- 4 The Effects of Interstimulus Intervals on Infant Attention and Face Perception: An Event-related Potentials Study
Wanze Xie, John Richards
- 5 The Effects Of Conflicting Referential and Salience Cues On Word-Learning In Autism
Iyad Aldaqre, Markus Paulus, Beate Sodian
- 6 Infant Attention and Genetic Risk for Autism
Bridgette Tonnsen, Lindsay McCary, Jane Roberts
- 7 The Shape Bias as a Memory Bias: Interactions of Memory and Generalization Across Infancy, Childhood, and Adulthood
Haley Vlach
- 8 One is not enough: Multiple exemplars facilitate infants' generalizations of novel properties
Ena Vukatana, Susan Graham, Suzanne Curtin
- 9 The role of naming in 9-month-old and 2-year-old infants' categorization of perceptually similar objects.
Mélanie Havy, Sandy Waxman

Thursday

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| 10 | <p>The Interplay Between Labeling and Relational Comparison in 7- and 9-month-old Infants <i>Yin-Juei Chang, Alissa Ferry, Susan Hespos, Dedre Gentner</i></p> | 18 | <p>Do numbers orient visual attention in infants? Evidence from an eye-tracking study <i>Hermann Bulf, Maria Dolores de Hevia, Viola Macchi Cassia</i></p> |
| 11 | <p>The development of infants' ability to use linguistic information when understanding the goal of others' pointing actions <i>Isu Cho, Hyun-joo Song</i></p> | 19 | <p>Face processing in young infants: an eye tracking study with 5 month-olds. <i>Nele Dewaele, Petra Warreyn, Herbert Roeyers</i></p> |
| 12 | <p>Infant ERP-Averages and Varying the Number of Included Trials - Does that Mix Well? <i>Manuela Stets, Mike Burt, Vincent Reid</i></p> | 20 | <p>Effects of geometric distortions on infant's face recognition <i>Wakayo Yamashita, So Kanazawa, Masami Yamaguchi</i></p> |
| 13 | <p>Links Between Maternal Postpartum Depression and Anxiety and Toddler Behavior Problems <i>Laura Marie Armstrong, Stephanie Parade, Ronald Seifer</i></p> | 21 | <p>Developmental Changes in Infants' ERP Responses to Faces and Objects <i>Nicole Zieber, John Richards</i></p> |
| 14 | <p>Reduced face preference in infancy: a developmental precursor to callous-unemotional traits? <i>Rachael Bedford, Andrew Pickles, Helen Sharp, Nicky Wright, Jonathan Hill</i></p> | 22 | <p>Predicting Infant Functioning at the end of the First Year: The Roles of Coparenting Dynamics and Parental Depression <i>Regina Kuersten-Hogan, Paula Fitzpatrick, Maria Kalpidou</i></p> |
| 15 | <p>Seeing red or feeling blue? Predicting infant-mother attachment disorganization 18 months postpartum from mothers' prenatal interpretations of infant facial expressions. <i>Rosemary Bernstein, Heidemarie Laurent, Maria-Alejandra De Araujo Sanchez, Jeffrey Measelle, Jennifer Ablow</i></p> | 23 | <p>Genes X Environment interaction in Infancy: The Dopamine active transporter gene (DAT1) moderates maternal influences on negative emotionality <i>Lior Abramson, Ariel Knafo</i></p> |
| 16 | <p>Matching of Facial and Body Emotion Information in Infancy <i>Alyson Hock, Leah Oberst, Ramesh Bhatt</i></p> | 24 | <p>Environmental vs genetic factors associated with developmental outcomes in infants and toddlers <i>Raquel Costa, Iva Tendais</i></p> |
| 17 | <p>Parental Symptoms of Depression and Anxiety Are Related to 5-month-olds' Face Scanning and Discrimination of Facial Expressions <i>Nicholas Holt, Cara Cashon, Janet Woodruff-Borden, Sharon Smith</i></p> | 25 | <p>Very Young Children's Understanding of Influences on Dental Health <i>Anne Schlottmann, Alexandra Bertie</i></p> |
| | | 26 | <p>Becoming a Super Imitator: Is it Social, Asocial or Neither? <i>Francys Subiaul, Brian Schilder, Elizabeth Renner, Rachel Barr</i></p> |
| | | 27 | <p>Preschoolers' interpretation of social context influences the copy of irrelevant actions <i>Eszter Wurmbrandt, Katalin Egyed</i></p> |

Thursday

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| 28 | <p>The effect of a social facilitation on the understanding of different visual symbols <i>Gerda Szalai, Katalin Egyed, Ágnes Pöltz</i></p> | 38 | <p>Maternal responsiveness: Its consistency and its effect on infant responsiveness and behavior over infants' first three months <i>Ann Bigelow, Michelle Power</i></p> |
| 29 | <p>Agents "survive" cohesion violation: intentionality permanence in 10-month-old infants <i>Erno Teglas, Gyorgy Gergely</i></p> | 39 | <p>Maternal mental state words and infants' temperament at 6 months predict children's imaginary companion during preschool age <i>Yusuke Moriguchi, Yuko Motoshima, Ikuko Shinohara</i></p> |
| 30 | <p>Development of mother-infant interaction in tickling play <i>Konomi Ishijima, Koichi Negayama</i></p> | 40 | <p>Style of Parenting Contributes (at Least Statistically) to Infant Weight Status <i>Wallace Dixon, William Dalton, Jaima Price, Matthew McBee, Katelyn Todaro</i></p> |
| 31 | <p>When "dog" Activates "cat" to Prime "cap": Cascaded Semantic to Phonological Activation in Toddler Word Recognition <i>Susan Bobb, Carolina Thomas, Eiling Yee, Nivedita Mani</i></p> | 41 | <p>Maternal positive affect as a moderator of infant behavioral inhibition <i>Mairin Augustine, Cynthia Stifter</i></p> |
| 32 | <p>Comprehension of Proper Names in 6-Month-Olds <i>Jennifer Campbell, Geoffrey Hall</i></p> | 42 | <p>The Effects of Borderline Personality Disorder on Mother-Infant Vocal Interaction at 3 Months <i>Sara Dominguez, Maya Gratier, Emmanuel Devouche</i></p> |
| 33 | <p>Parents do not Reduce Their Use of Homophones When Talking to Infants <i>Erin Conwell</i></p> | 43 | <p>Father and infant temperamental characteristics and their associations with dysfunctional father-child interactions <i>Kate Ellis-Davies, Mirko Uljarevic, Scott Jones, Smiljana Bundovska</i></p> |
| 34 | <p>Factors Affecting Lexical Growth in Spanish-Speaking Infants <i>Stephanie DeAnda, Diane Poulin-Dubois, Pascal Zesiger, Margaret Friend</i></p> | 44 | <p>Vocalic Bias in Own-Name Recognition in French-Learning 5-Month-Olds <i>Camillia Bouchon, Thibaut Fux, Martine Adda-Decker, Thierry Nazzi</i></p> |
| 35 | <p>EMGs reveal that infant can learn the timing of physical interactions <i>Caspar Addyman, Lilian Fautrelle, Robert French, Denis Mareschal, Sinead-Elouise Rocha, Elizabeth Thomas</i></p> | 45 | <p>Graded consonantal advantage: Phonological specificity in French-speaking children at 1;6 <i>Jane Jöhr, Pascal Zesiger</i></p> |
| 36 | <p>Exploring theta band activity as a predictor of learning in infancy <i>Katarina Begus, Teodora Gliga, Victoria Southgate</i></p> | 46 | <p>Segmental Trunk Control Acquisition and Reaching in Typically Developing Infants <i>Jaya Rachwani, Victor Santamaria, Sandra Saavedra, Marjorie Woollacott</i></p> |
| 37 | <p>Mother's depression and child's motor development in the first three years of life <i>Maria Morais, Tania Lucci, José Siqueira, Emma Otta</i></p> | | |

Thursday

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| <p>47 Does hunger affect spontaneous behavior in preterm neonates? A new coding scale. <i>Damiano Menin, Elisa Ballardini, Gianpaolo Garani, Cecilia Domenicali, Giovanna Sineri, Angela Valente, Tiziana Vacca, Harriet Oster, Marco Dondi</i></p> | <p>56 Grasping the difference through experience! - Neurophysiological correlates of action perception during the onset of grasping <i>Marta Bakker, Moritz Daum, Andrea Handl, Gustaf Gredeback</i></p> |
| <p>48 Sensitivity to Mispronunciations in Full-term & Preterm Toddlers <i>Glenda Molina-Onario, James Morgan</i></p> | <p>57 Individuating abstract agents based on preference demonstration <i>Gabor Brody, Kata Olah, Ildiko Kiraly, Szilvia Biro</i></p> |
| <p>49 Helping following priming with affiliation in 18-month-old infants <i>Chung-Hsin Chiang, Yi-Ching Ho</i></p> | <p>58 Do toddlers infer competence from nonverbal cues of confidence? <i>Patricia Brosseau-Liard, Diane Poulin-Dubois</i></p> |
| <p>50 Let's Talk About it: the Role of Parents' Emotion and Mental State Talk in the Socialization of Early Prosocial Behavior <i>Jesse Drummond, Elena Paul, Whitney Waugh, Stuart Hammond, Emma Satlof-Bedrick, Celia Brownell</i></p> | <p>59 Informant Testimony and Social Reasoning about Object Labeling and Peer Encounters in Early Childhood <i>Laura Elenbaas, Melanie Killen</i></p> |
| <p>51 Validation of the Danish version of the Karitane Parenting Confidence Scale (KPCS) with parents of children aged 0-12 months <i>Maiken Pontoppidan, Ingeborg Kristensen, Erik Mortensen</i></p> | <p>60 Cross-Cultural Differences in Temperament Between Danish and American Toddlers <i>Ariye Krassner, Marianne Krogh, Met Væver, Sam Putnam, Maria Gartstein</i></p> |
| <p>52 Developing a New Screening Tool: The Checklist for Risk Indicators in Infants (CRII), Evidence of Reliability and Validity <i>Natalia Potapova, Maria Gartstein</i></p> | <p>61 Facilitating the Discrimination of Coda Contrasts <i>Kathleen Engel, Suzanne Curtin</i></p> |
| <p>53 Solving the Paradox of Object Permanence? Generalised Learning on an Object Search Task Across 24 Hours in 7m old infants <i>Richard O'Connor, James Russell</i></p> | <p>62 Open your eyes: Pupil size changes indicate mispronunciation detection in 30-month-old children <i>Tom Fritzsche, Barbara Hühle</i></p> |
| <p>54 A longitudinal study of the relationships between maternal sleep and infant sleep <i>Ella Volkovich, Liat Tikotzky</i></p> | <p>63 Learning from Mistakes: Causal Understanding and Prior Intention in Observation Learning of Tool Use by 30-41-month-old Children <i>Wan-Lin Chung, Chi-Tai Huang</i></p> |
| <p>55 A longitudinal association between sleep and body weight changes from birth to 2 years <i>Shih-Chi Chung, Shih-Ming Chu, Yu-Shu Huang, Wen-Chun Liao, Chu-Chi Chen</i></p> | <p>64 Flexible Training with Tools Supports Transfer in Infancy <i>Jane Hirtle, Amy Needham</i></p> |
| | <p>65 Automated testing of infant visual acuity using remote eyetracking <i>Marko Nardini, Peter Jones, Sarah Kalwarowsky, John Wattam-Bell</i></p> |

Thursday

66 Toddlers' use of semantic, phonological and perceptual information in determining the referent of a newly learned adjective
Nicole Altvater-Mackensen, Nivedita Mani

67 Children learn consonant but not vowel minimal pairs in a visual reference paradigm
Paola Escudero, Bryan Nguyen, Kristen Gyllespie-Lynch, Scott Johnson

68 Meaning in Context: Infants Use Known Verbs to Learn Novel Nouns by 19 Months
Brock Ferguson, Eileen Graf, Sandra Waxman

Thursday, 9:45 am - 11:15 am

(Event 1-010) Presidential Symposium
Hall Berlin C
Thursday, 9:45 am - 11:15 am

ICDSS/ICIS Presidential Symposium on Development during Infancy in Cultural Context

Chair: Daphne Maurer

- Context, culture and development. An inextricable relationship.
Heidi Keller
- Factoring Context
Philippe Rochat
- Child development in a global context: Programs, policies & possibilities
Lia Fernald

Abstract: The International Society for Infant Studies is a founding member of the new International Consortium of Developmental Science Societies (ICDSS). The Consortium is designed to promote international and interdisciplinary perspectives on developmental science by facilitating the generation of new knowledge, education, and the communication of research findings. ISIS is sponsoring this symposium to announce its membership in the new Consortium and to illustrate the value of

international and interdisciplinary perspectives for understanding development during infancy.

(Event 1-011) Paper Symposium
Salon 1
Thursday, 9:45 am - 11:15 am

Knowing in Anticipation: Understanding Action Understanding

Chair: Vasudevi Reddy

- Can infants predict the goals of non-human animate agents?
Gustaf Gredeback
- Newborns' and infants' perception of possible and impossible hand movements: The effect of bio-mechanical properties on the processing of human gestures and action.
Chiara Turati, Elena Longhi, Elena Geangu, Elena Natale, Margaret Addabbo, Irene Senna, Emanuela Croci
- Anticipating and Adjusting to Actions towards the Self
Vasudevi Reddy, Gabriela Markova, Sebastian Wallot
- The Action Unit: The origin of anticipation in the prospective structure of action.
Jonathan Delafield-Butt

(Event 1-012) Paper Session
Salon 12-15
Thursday, 9:45 am - 11:15 am

Cues and Context in Infants' Computation of the Statistical Regularities in Natural and Artificial Languages

Chair: Jenny Saffran

- Tonal Register in Statistical Learning
Tianlin Wang, Jenny Saffran
- Speech-Processing Efficiency is Related to Statistical Learning Ability in 15-20 Month-Old Infants
Jill Lany, Amber Shoaib
- Novel phonotactic learning: Simultaneous syllable- and word-level representations

Thursday

Amélie Bernard, Esther Schott, Lara Feldman, Melissa Ferland, Kristine Onishi

- Word segmentation beyond statistics
Amanda Saksida, Alan Langus, Marina Nespor

(Event 1-013) Paper Session
Salon 16
Thursday, 9:45 am - 11:15 am

Early risk for ASD: identification and predictors of outcome

Chair: Ann M. Mastergeorge

- Efficacy of universal developmental surveillance for the early identification of Autism Spectrum Disorders in infants and toddlers
Josephine Barbaro, Cheryl Dissanayake
- Social affective symptom trajectories in the second year: A cluster analysis of infants at high risk for autism spectrum disorder
Suzanne Macari, Lisha Chen, Saier Ye, Katarzyna Chawarska
- Object Recognition Predicts Symbolic Play in Children with Autism Spectrum Disorders
Saime Tek, Sumeyra Yalcintas, Irem Ozcan
- Patterns of Temperament Development in Infants who Develop Autism Spectrum Disorder
Sarah Paterson, Breanna Winder-Patel, Hongbin Gu, Lonnie Zwaigenbaum, Annette Estes

(Event 1-014) Paper Session
Salon 17
Thursday, 9:45 am - 11:15 am

How infants combine acoustic and visual information to learn about objects

Chair: Gert Westermann

- Learning to combine visual and auditory object features in 10- and 12-month old infants
Gert Westermann, Yi-Chuan Chen

- Categorization in infancy: Labels direct 12-month-olds' attention to commonalities
Nadja Althaus, Kim Plunkett
- Timing matters: The role of label synchrony in infant categorization
Nadja Althaus, Kim Plunkett

(Event 1-015) Paper Symposium
Salon 2+3
Thursday, 9:45 am - 11:15 am

Maternal psychosocial characteristics, mothering, and infant emotional development: Multi-method, longitudinal perspectives

Chair: Andrée-Anne Bouvette-Turcot

- Maternal psychosocial maladjustment and child internalizing symptoms: Investigating the modulating role of maternal sensitivity
Andrée-Anne Bouvette-Turcot, Annie Bernier
- Maternal Age, Psychological Maturity, Parenting Cognitions and Mother-infant Interaction in the First Year
Anna-Lisa Camberis, Catherine McMahon, Frances Gibson, Jacky Boivin
- Parental Embodied Mentalizing and its Relation with Mind-Mindedness, Sensitivity, and Attachment Security
Elizabeth Meins, Dana Shai
- Do maternal structuring and sensitivity moderate the impact of anxiety in pregnancy on infant reactivity?
Catherine McMahon, Kerry-Ann Grant

(Event 1-016) Paper Session
Salon 4+5
Thursday, 9:45 am - 11:15 am

Parent Research in the News

Chair: Jennifer C. Ablow

- Explicit and Implicit Caregiving Interest in Expectant Fathers: Do Oxytocin and Vasopressin Matter?

Thursday

Roseriet Beijers, Celina Cohen, Lorenz van Doornen, Carolina de Weerth

- Examining Maternal Neural Response to Infant Cry in the Context of Own Parenting Experience and Observed Postpartum Sensitivity
Alison Hipwell, Eydie Moses-Kolko, James Swain, Carlos Zevallos, Stephanie Stepp, Natalie Merrick, Samantha McClelland, Mary Phillips
- Mother-Intervener Relationship and the Process of Intervention: Links to Outcome in an Attachment-Based, Mother-Infant Home Visiting Intervention
Susan Woodhouse, Maria Larrimore, Julie Beeney, Jude Cassidy
- Understanding the Transgenerational Effect of Trauma on Infant Attachment Classification: The Role of Maternal Parenting Ideology
Xiaoning Sun, Jeffrey Measelle, Jennifer Ablow

(Event 1-017) Paper Symposium
Salon 7
Thursday, 9:45 am - 11:15 am

The evolutionary, developmental and cognitive foundations of psychological essentialism

Chair: Hannes Rakoczy

- From Biology to Ideology: A Model For Integrating Psychological Essentialism Across Categories
George Newman, Victoria Brescoll, Joshua Knobe
- Are we natural-born essentialists?
Paul Bloom
- Human infants and great apes judge object identity on the base of essential properties
Trix Cacchione, Hannes Rakoczy
- Essentialism Is an Offshoot of a Broader, Earlier-Developing Inherence Heuristic
Andrei Cimpian, Shelbie Sutherland, Christina Tworek

Thursday, 11:30 am - 12:30 pm

(Event 1-018) Invited Speaker
Hall Berlin B
Thursday, 11:30 am - 12:30 pm

A genetic perspective on speech and language development

Chair: Núria Sebastián-Gallés
Speaker: Simon Fisher

Abstract: Researchers are beginning to uncover the neurogenetic pathways that contribute to our unparalleled capacity for spoken language. Initial clues come from identification of genetic risk factors implicated in developmental speech and language disorders. The underlying genetic architecture is complex, involving a range of molecular mechanisms. For example, we have shown that rare protein-coding mutations of the FOXP2 transcription factor cause severe problems with sequencing of speech sounds, while common genetic risk variants of small effect size in genes like CNTNAP2, ATP2C2 and CMIP are associated with typical forms of language impairment. In my talk I will describe how investigations of genes like FOXP2, in humans, animals and cellular models, can unravel the complicated connections between genes, neurons, brain circuits and language. This depends on interdisciplinary research at multiple levels, from determining molecular interactions and functional roles in neural cell-biology all the way through to effects on brain structure and activity.



Biography: Simon is director of the Max Planck Institute for Psycholinguistics and professor of language and genetics at the Donders Institute for Brain, Cognition & Behaviour in Nijmegen, the Netherlands. He obtained a Natural Sciences degree at Cambridge University, and a DPhil at the Biochemistry Department, Oxford University. For postdoctoral research, Simon worked at Oxford's Wellcome Trust Centre for Human Genetics (WTCHG), identifying genes implicated in speech and language disorders. In

Thursday

2002, Simon was awarded with a Royal Society research fellowship to set up his own lab at the WTCHG, using state-of-the-art methods to study how language-related genes influence the brain. In 2010 he became director of a new department at Nijmegen's Max Planck Institute. Simon is author of >90 journal articles, with an h-index of 43, and his publications have received >7000 citations in total. An elected fellow of the Society of Biology, awards include the Francis Crick Prize Lecture, and the Eric Kandel Young Neuroscientists Prize.

(Event 1-019) Invited Speaker
Hall Berlin C
Thursday, 11:30 am - 12:30 pm

What babies can teach us about adult dementia: a multidisciplinary approach

Chair: Daphne Maurer
Speaker: Annette Karmiloff-Smith

Abstract: In this talk I will first argue that adult neuropsychological models are inappropriate for understanding neurodevelopmental disorders, and that we must trace cognitive-level deficits back to their basic-level origins in infancy. I will go on to describe how my new research illustrates this, taking a multidisciplinary approach to identifying risk and protective factors for Alzheimer's disease (AD) by studying individual differences in infants/toddlers with Down syndrome (DS). DS lends itself particularly well to the study of early predictors of adult dementia since one of the genes implicated in the brain pathology of AD lies on chromosome 21, overexpressed in DS. 100% of individuals with DS get the plaques and tangles typical of the AD brain, yet not all go on to present with dementia. The fascinating challenge is to understand how effects at the genetic, cellular, neural, cognitive, behavioural and environmental levels contribute to these individual differences over developmental time.

Biography: Until 2006, when she "retired", Head, Neurocognitive Development Unit at UCL's Institute of Child Health; now Professorial Research Fellow at Birkbeck's Centre for Brain & Cognitive Development. Doctorate from Geneva University, she studied/worked with Piaget. Fellow of British Academy and Academy of Medical Sciences, she was awarded the 1995 BPS Book Award for *Beyond Modularity* (1992).



Another book, *Everything your baby would ask if only he/she could speak* (1998), co-authored with her daughter, was No.2 on American List of Best Parenting Books. She just published *Neurodevelopmental Disorders across the Lifespan: A Neuroconstructivist Approach* (2012).

Honorary doctorates from Louvain and Amsterdam, she received numerous awards (ESF Latsis Prize for Cognitive Sciences, CBE on Queen's Birthday List, IUPsyS Mattei Dogan International Prize, BPS Lifetime Achievement Award). Author of 11 books and over 300 articles/chapters, her writings have been translated into 17 languages. She has 2 daughters and 7 grandchildren.

Thursday, 1:30 pm - 3:00 pm

(Event 1-020) Tutorial Symposium
Hall Berlin B
Thursday, 1:30 pm - 3:00 pm

Tutorial in Epigenetics

Chair: Iñaki Martin-Subero

- Epigenetics and early infant behaviour: Lessons from the crib side
Tim Oberlander
- The prenatal epigenome and studies into long-term health
Bas Heijmans

(Event 1-021) Dedicated Session
Hall Berlin C
Thursday, 1:30 pm - 3:00 pm

In Honor of Jacques Mehler

Chair: Emmanuel Dupoux

- Jacques Mehler and the relationship between language and cognition
Emmanuel Dupoux
- TBA

Thursday

Jacques Mehler

- Why is speech special: An efficient neural coding perspective
Judit Gervain
- Prosodic cues and language acquisition
Mohinish Shukla
- Bilingual and monolingual infants use different learning mechanisms for both words and rules
Ágnes Kovács

(Event 1-022) Paper Symposium
Salon 1
Thursday, 1:30 pm - 3:00 pm

Parental Emotional Distress and Well-being: Concurrent and Prospective Links to Infant/Toddler Sleep Development.

Chair: Amy J. Schwichtenberg

- Happy Parents, Well-rested Babies: Maternal and Paternal Well-being as Predictors of Infant Sleep
Annie Bernier, Marie-Ève Bélanger, Julie Carrier, Valérie Simard
- A Longitudinal Study of Maternal Emotional Distress and Infant Sleep
Liat Tikotzky, Avi Sadeh, Ella Volkovich, Rachel Manber, Gal Meiri, Golan Shahar
- Maternal Depressive Symptoms, Bedtime Routines, and Sleep in Infants Born Preterm
Amy Schwichtenberg, Cynthia Burnson, Julie Poehlmann

(Event 1-023) Paper Session
Salon 12-15
Thursday, 1:30 pm - 3:00 pm

Neural Correlates of Typical and Atypical Speech and Language Processing

- Fundamentals of language acquisition in congenitally deaf children after cochlear implantation
Niki Vavatzanidis, Dirk Mürbe, Anja Hahne
- Are early neurophysiological markers of ASD syndrome-specific? A cross-syndrome comparison

Dean D'Souza, Hana D'Souza, Mark Johnson, Teodora Gliga, Elena Kushnerenko, Annette Karmiloff-Smith

- Event-Related Potentials to Real and Novel Verbs in Young Children
Amy Pace, Margaret Friend, Leslie Carver
- The Development of Neural Activation to Native and Non-native Language
Lillian May, Judit Gervain, Manuel Carreiras, Janet Werker

(Event 1-024) Paper Symposium
Salon 16
Thursday, 1:30 pm - 3:00 pm

Individual and social determinants of flexible tool use in early childhood

Chair: Sabrina Bechtel

- Divergent thinking in 1-year-olds and their parents
Elena Hoicka, Joanne Kirkwood, Rachael Mowat, Simone Bijvoet-van den Berg
- How 18-24 month-olds acquire and transfer tool knowledge: The role of executive functions
Sabrina Bechtel, Sabina Pauen
- What prepares infants to learn to use a tool to get an out-of-reach object?
Jacqueline Fagard, Lauriane Rat-Fischer, Rana Esseily, Eszter Somogyi, Franck Péron, Cecilia Florean, Cecilia Ara, Laetitia Jeancolas, John Kevin O'Regan
- Dissecting children's observational learning of complex tool use actions through selective video
Emma Flynn, Andrew Whiten

(Event 1-025) Paper Symposium
Salon 17
Thursday, 1:30 pm - 3:00 pm

Ostensive cues: contributions to their definition

Chair: Katharina Rohlfing

Thursday

- Sighted infants of blind parents: A case for bilingualism in gaze communication?
Atsushi Senju, Leslie Tucker, Natasa Ganea, Angélica Verneti, Greg Pasco, Kristelle Hudry, Mayada Elsabbagh, Tony Charman, Mark Johnson
- Are ostensive cues more powerful than any other social signal in orienting infants' attention within referential communication?
Joanna Szufnarowska, Katharina Rohlfing, Gustaf Gredeback
- Ostensive cues orient infants' attention toward the demonstration but can, in some conditions, delay learning.
Rana Esseily, Jacqueline Fagard
- Nine-month old infants' covert imitation of goal-directed actions with and without ostensive cues.
Ty Boyer, Bennett Bertenthal, Samuel Harding

(Event 1-026) Paper Symposium
Salon 2+3
Thursday, 1:30 pm - 3:00 pm

Mapping Word Form to Meaning in the First Year of Life

Chair: Cynthia L. Fisher

- Early Word Form Generalizations in the Context of Meaning
Elika Bergelson, Daniel Swingley
- Why the body comes first: Effects of caregiver touch on infants' word recognition
Rana Abu Zhaya, Amanda Seidl, Ruth Tincoff, Alejandrina Cristia
- Bilingual 9-Month-Olds do not Expect Distinct Words to Refer to Distinct Object Kinds
Krista Byers-Heinlein

(Event 1-027) Paper Symposium
Salon 4+5
Thursday, 1:30 pm - 3:00 pm

Development of Face Processing in Infancy: Multiple Levels of Environmental Influence

Chair: Naiqi Xiao

- Analyzing the Early Environment to Understand how Individual Differences Impact Infants' Opportunities to Learn About Faces
Nicole Sugden, Margaret Moulson
- The Relation Between Infants' Daily Experience With Diversity and Face Perception: a Comparison of Infants from Two Communities
Lisa Oakes, Ann Ellis, Kang Lee, Naiqi Xiao
- Cross-cultural Similarities and Differences in Infants' Scanning of Own- and Other-race Faces
Kang Lee, Paul Quinn, Dandan Zhu, Shaoying Liu, Justine Thacker, Naiqi Xiao
- Age Bias in Infancy: a Role for Siblings?
Fabrice Damon, Michelle Heron-Delaney, Paul Quinn, Kang Lee, Olivier Pascalis

(Event 1-028) Paper Symposium
Salon 7
Thursday, 1:30 pm - 3:00 pm

Origins of Body Knowledge

Chair: John Kevin O'Regan

- The relationship between sensorimotor experience and the development of spatial representations of touch in the first year of life
Andrew Bremner, Jannath Begum Ali, Jose van Velzen, Silvia Rigato
- Body Mapping: Perceptuomotor Coordination, Canonical Body Knowledge, and Tactile Localization
Jackleen Leed, Bjorn Kahrs, Jeffrey Lockman
- Body Image Development in Infants and Young Children
Celia Brownell, Emma Satlof-Bedrick, Alyssa Marchitelli, Darren Richmond
- Modeling the development of body knowledge using humanoid robots
Matej Hoffmann, Alessandro Roncone, Giorgio Metta

Thursday

Thursday, 1:45 pm - 3:15 pm

(Event 1-029) Poster Session 2

Hall Maritim (Exhibit Hall)

Thursday, 1:45 pm - 3:15 pm

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| <p>1 The influence of contextual cues on infants' expectations about the adjustability of an agent's direct approach toward a goal <i>Szilvia Biro</i></p> <p>2 The development of action monitoring: An EEG study on the influence of motor experience on error processing <i>Ricarda Braukmann, Marlene Meyer, Janny Stapel, Harold Bekkering, Sabine Hunnius</i></p> <p>3 Paternal Autistic Traits Are Predictive of Infants Visual Attention <i>Eloisa Valenza, Hermann Bulf, Laura Franchin, Luca Ronconi, Andrea Facoetti</i></p> <p>4 Can attention difficulties be identified with the UTATE in toddlers of 18 months old? <i>Anna van Baar, Marjanneke de Jong, Marjolein Verhoeven</i></p> <p>5 Neonatal Susceptibility for Behavior Inhibition <i>Ronny Geva, Jessica Schreiber, Lihi Segal-Caspi, Michal Markus-Shiffman</i></p> <p>6 Influence of lexical-tone experience on the perceptual weight of modulation cues related to pitch variations. <i>Laurianne Cabrera, Feng-Ming Tsao, Christian Lorenzi, Josiane Bertoncini</i></p> <p>7 Does linguistic distance affect simultaneous bilingual language acquisition? <i>Anja Gampe, Susanne Grassmann, Moritz Daum</i></p> <p>8 Growth in Vocabulary Size and Speed of Word Recognition During the Second Year <i>Jacqueline Legacy, Diane Poulin-Dubois, Pascal Zesiger, Margaret Friend</i></p> | <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> | <p>When Less Becomes More? The Development of a Preference for Scarce Items <i>Matar Ferera, Avi Benozio, Gil Diesendruck</i></p> <p>Do Social Events Prime Individuation-by-Color in Physical Events? <i>Amy Hirshkowitz, Teresa Wilcox</i></p> <p>Parental Perceptions of Early Communication, Motor, Social, and Cognitive Development in Infants at Risk for Autism between 9 and 18 Months of Age <i>Maninderjit Kaur, Sudha Srinivasan, Anjana Bhat</i></p> <p>Emotional "agreements", "disagreements" and "negotiations" in spontaneous mother-infant interaction <i>Theano Kokkinaki</i></p> <p>Young children's spontaneous predictions about upcoming turn structure <i>Marisa Casillas, Michael Frank</i></p> <p>Turn-timing in naturalistic mother-infant interactions: A longitudinal perspective. <i>Elma Hilbrink, Marisa Casillas, Susan Bobb, Eve Clark, Merideth Gattis, Stephen Levinson</i></p> <p>Are maternal victimization of domestic violence during pregnancy induce infant shaking or smothering? A large population-based retrospective cohort study in Japan <i>Takeo Fujiwara</i></p> <p>Linking Intimate Partner Violence and School Aged Children's Competence <i>Hanna Gustafsson, Martha Cox</i></p> <p>EEG power correlates with level of helping behavior: differences between family-reared and institutionalized Ukrainian children <i>Iuliia Dyagileva, Anna Kulenkova, Volodymir Pavlenko, Olga Kochukhova</i></p> |
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Thursday

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| 18 | <p>In the World of Social Sounds. An ERP Investigation of Infant Processing of Human Action Sounds <i>Elena Geangu, Ermanno Quadrelli, James Lewis, Nadia Bolognini, Viola Macchi Cassia, Chiara Turati</i></p> | 28 | <p>Assessing Individual Differences and Age-Related Changes in Intersensory Processing Across Infancy: A New Method <i>Lorraine Bahrack, Kasey Soska, James Todd, Jessica Saunders, Victoria Bein</i></p> |
| 19 | <p>18-Month-Olds Mistrust Crybabies <i>Sabrina Chiarella, Diane Poulin-Dubois</i></p> | 29 | <p>The Role of Temporal Synchrony and Spatial Congruency for Body Perception in Newborns. <i>Maria Filippetti, Mark Johnson, Giulia Orioli, Teresa Farroni</i></p> |
| 20 | <p>Infants' preference for a person is affected by the person's prior facial expression <i>Toshinori Kaneshige, Etsuko Haryu</i></p> | 30 | <p>The influence of infant's joint attention changes on language ability of early childhood <i>Seolgi Bak, Keumjoo Kwak, Yeonsoo Kim, Sol Lee</i></p> |
| 21 | <p>Developmental Transition of Intentional Agency between 4- and 8-month-olds Using an Image-scratch Paradigm <i>Michiko Miyazaki, Hideyuki Takahashi</i></p> | 31 | <p>Relationship between joint attention during Infancy and Theory of Mind in Early Childhood <i>Yeonsoo Kim, Keumjoo Kwak, Sol Lee</i></p> |
| 22 | <p>Shared Signal or Negativity Bias? Interactions Between Emotion Expression and Gaze Direction in Gaze Cueing in 9- and 12-month-old Infants. <i>Alicja Niedzwiecka, Przemyslaw Tomalski</i></p> | 32 | <p>Infant Learning about Others' Visual Perception Via Their Goal-Directed Actions <i>Andrew Meltzoff, Rechele Brooks</i></p> |
| 23 | <p>Skilled Bottle Use by Infants <i>Wendy Jung, Bjorn Kahrs, Jeffrey Lockman</i></p> | 33 | <p>The trajectory of early receptive vocabulary acquisition: Differential effects of measurement and language <i>Margaret Friend, Pascal Zesiger, Diane Poulin-Dubois</i></p> |
| 24 | <p>Mother-child-interaction during feeding and children's weight development <i>Annette Klein, Verena Wendt, Katharina Herfurth-Majstorović, Sarah Bergmann, Anja Keitel, Kai von Klitzing</i></p> | 34 | <p>Constraints on statistical computations: The use of phonological features <i>Nayeli Gonzalez Gomez, Thierry Nazzi</i></p> |
| 25 | <p>Physical growth delays and life conditions of young institutionalized children in the Philippines <i>Marilyne Dumais, Geneviève Michel, Josée Piette, Chantal Cyr</i></p> | 35 | <p>Cross-Linguistic Variation and Thematic Interpretation: Evidence from English- and Mandarin-learning children <i>Angela Xiaoxue He, Xiangzhi Meng, Alexander Williams, Jeffrey Lidz</i></p> |
| 26 | <p>The Role of Ostensive Cues in Infant's Imitative Behavior <i>Darja Kotterba, Antonia Billerbeck, Claudia Wiese, Horst Krist</i></p> | 36 | <p>Allocation of Gaze to Semantically Inconsistent Objects During Scene Viewing in 24-month-olds <i>Andrea Helo, Lucile Danteny-Dordoigne, Sebastian Pannasch, Pia Rämä</i></p> |
| 27 | <p>Children's high-fidelity imitation of tool vs non-tool actions <i>Erika Nurmsoo, Angelique Eydam, Victoria Leahy, Tanslea Burton</i></p> | | |

Thursday

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| 37 | Temporal Dependency in the Context of Infant Habituation <i>Devon Gangi, Daniel Messinger, Whitney Mattson, James Todd, Nicholas Myers, Lorraine Bahrck</i> | 45 | Effects of maternal postpartum depression and gender on the regulation of relational space in mother-infant interaction at four months <i>Met Væver, Marianne Krogh, Johanne Smith-Nielsen</i> |
| 38 | Exploring the association of mothers' emotion recognition and mothers' weight status with Emotional Availability in the mother-child interaction <i>Sarah Bergmann, Annette Klein, Verena Wendt, Kai von Klitzing</i> | 46 | Training 30-month-olds to take listeners' informational needs into account <i>Kirsten Abbot-Smith, Rebecca Croll, Mike Forrester, Erika Nurmsoo, Heather Ferguson</i> |
| 39 | INFANT CONTINGENT VOCAL COMMUNICATION: A MODEL FOR EARLY INTERVENTION IN NICU <i>Manuela Filippa, Maya Gratier, Didier Grandjean</i> | 47 | 3-year-old's referring expressions balance familiarity with informativity <i>Colin Bannard, Marla Rosner, Danielle Matthews</i> |
| 40 | A longitudinal study on the fetal response to music <i>LingJing Chen, Mayumi Adachi, Masae Taga, Yasushi Handa, Hisanori Minakami</i> | 48 | Situational constraints for early helping <i>Marta Giner Torrens, Joscha Kärtner, Nils Schuhmacher</i> |
| 41 | Effects of music and language experience on auditory pattern learning during infancy and adulthood <i>Erin Hannon, Christina Vanden Bosch der Nederlanden</i> | 49 | The neuropsychology of 6-month-old infant's pro-social preferences <i>Gustaf Gredeback, Katharina Kaduk, Marta Bakker, Janna Gottwald, Therese Ekberg, Claudia Elsner, Vincent Reid, Ben Kenward</i> |
| 42 | For five-month-old infants, music is social <i>Samuel Mehr, Elizabeth Spelke</i> | 50 | Infants' logical reasoning revealed by looking time and eye-tracking measures. <i>Nicoló Cesana-Arlotti, Luca Bonatti, Erno Teglás</i> |
| 43 | Do SES Factors and Toddler Emotion Expression Predict Mothers' and Fathers' Engagement in Conversation with their 18-Month-Olds? <i>Margaret Fields, Pamela Cole, Caroline Roben, Emily LeDonne</i> | 51 | The origin of a uniquely human thinking bias: The symmetry inference bias in human infants and chimpanzees <i>Chizuko Murai, Michiko Miyazaki, Masaki Tomonaga, Hiroyuki Okada, Mutsumi Imai</i> |
| 44 | Scaffolding in parent-child-interaction: Analyzing the efficiency of a training program and parents' use of scaffolding strategies <i>Kim Gärtner, Silke Hertel, Katharina Wolf, Marlis Abrie-Kuhn, Andreas Eickhorst, Manfred Cierpka</i> | 52 | InWordDB: A comprehensive database of infant segmentation studies <i>Christina Bergmann, Alejandrina Cristia</i> |
| | | 53 | Early segmentation and word mapping in a natural language: evidence from 4, 6 and 9-months-olds <i>Maria Teixidó, Laura Bosch</i> |
| | | 54 | Altruistic helping in 18- and 30-month-olds across three cultural contexts <i>Tara Callaghan, John Corbit, Taylor Stokal, Robin Ross, Ruth Hofrichter</i> |

Thursday

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| 55 | <p>Perspective Taking and Language Comprehension: A Comparison between Korean and American Infants <i>You-jung Choi, Hyun-joo Song, Yuyan Luo</i></p> | 64 | <p>Infants' Understanding of Intentional Action Predicts Moral Judgement in Preschool Age <i>Beate Sodian, Maria Licata, Susanne Kristen, Markus Paulus, Melanie Killen, Amanda Woodward</i></p> |
| 56 | <p>Social Influences on Infants' Selection of Foods and Artifacts <i>Ashley Jordan, Kristin Shutts, Katherine Kinzler</i></p> | 65 | <p>Implicit and Explicit Understanding of Theory of Mind in 18-month-old Infants <i>Jessica Yott, Diane Poulin-Dubois</i></p> |
| 57 | <p>Predictors of Peer Social Competence Among Two-Year-Olds <i>Gabriela Markova, Maria Legerstee</i></p> | 66 | <p>Visuospatial Sequential Learning in 8-Month-old Infants Using a Familiarization Procedure <i>Desiree Capel, Frank Wijnen</i></p> |
| 58 | <p>The role of action prediction and inhibitory control for joint action coordination in toddlers <i>Marlene Meyer, Harold Bekkering, Rianne Haartsen, Janny Stapel, Sabine Hunnius</i></p> | 67 | <p>The Development of Visually Guided Action: A Longitudinal Study of Toddlers 16-24 months <i>Sandra Street, Karin James, Nicholas Fears, Susan Jones, Linda Smith</i></p> |
| 59 | <p>Positive Affect in Infant-Directed Speech: Expressed Through and Recognised From the Vowels? <i>Titia Benders</i></p> | 68 | <p>Disambiguation in 20-month-old Monolingual Japanese Children <i>Toshiki Murase, Tessei Kobayashi</i></p> |
| 60 | <p>Do newborns exhibit the iambic-trochaic bias: an optical imaging study. <i>Nawal Abboub, Thierry Nazzi, Judit Gervain</i></p> | 69 | <p>Children's use of noun syntactic information in mapping a word onto an object <i>Yuka Ohtake, Etsuko Haryu</i></p> |
| 61 | <p>Audiovisual speech perception in infancy: Do production abilities influence infants' sensitivity to the congruency between auditory and visual speech cues? <i>Nicole Altvater-Mackensen, Tobias Grossmann</i></p> | <p>Thursday, 3:15 pm - 4:45 pm</p> <p>(Event 1-030) Paper Symposium Salon 1 Thursday, 3:15 pm - 4:45 pm</p> <p>Tone Perception and Word Learning in Tone- and Non-Tone-Learning Infants</p> <p><i>Chair: Tianlin Wang</i></p> <ul style="list-style-type: none"> • How perceptual attunement to tone reorganizes infant perception of the speech signal: Evidence from vocoded speech. <i>Laurianne Cabrera, Feng-Ming Tsao, Henny Yeung, Christian Lorenzi, Josiane Bertoncini</i> • How do non-tone-learning infants use tonal cues in word learning | |
| 62 | <p>Infants' Statistical Learning of Action Sequences <i>Claire Monroy</i></p> | | |
| 63 | <p>Infants use speech rate as a clue to window of analysis in word segmentation <i>Claire Paulson, James Morgan</i></p> | | |

Thursday

Liquan Liu, Tianlin Wang, René Kager, Jenny Saffran

- Effects of Tone Variation on Early Word Learning and Recognition
Leher Singh
 - Perception of lexical tones in Mandarin Chinese by French-learning infants
Rushen Shi, Jun Gao, Andréane Melançon, Aijun Li
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(Event 1-031) Paper Symposium
Salon 12-15
Thursday, 3:15 pm - 4:45 pm

New Directions for Emotion Regulation During Infancy: Exploring the Dynamic Interplay of Singing, Touching, and Face Perception

Chair: Jean-Paul Boudreau

- Emotional engagement and information processing: Infants' shift of visual attention in infant-directed singing and speaking events
Petra Hauf, Sara Murphy
 - Emotion regulation in distressed infants using maternal vocalizations: Evidence from physiological and behavioural measures
Niusha Ghazban, Frank Russo, Sandra Trehub, Jean-Paul Boudreau
 - Full-term and very-low-birth-weight preterm infants' emotion-regulation behaviors during a Still-Face interaction: Influence of touch
Irene Mantis, Amelie Jean, Dale Stack
-

(Event 1-032) Paper Symposium
Salon 16
Thursday, 3:15 pm - 4:45 pm

Of Mood and Methylation: Unraveling the epigenetic basis of newborn neurobehavior

Chair: Stephen Suomi

- An Epigenetic Modification of a Placental Gene is Associated with Maternal Distress and Fetal Behavioral Development

Catherine Monk, Sierra Kuzava, Elizabeth Werner, Benjamin Tycko, Charles Lang, Frances Champagne

- The Roles of DNA methylation of NR3C1 and 11 β -HSD2 and Exposure to Maternal Mood disorder in Utero on Newborn Neurobehavior
Elisabeth Conradt, Barry Lester, Allison Appleton, David Armstrong, Carmen Marsit
 - Maternal vitamin B12 - folate status during pregnancy: impact on SLC6A4 methylation status and neonatal behavior
Tim Oberlander, Kaia Hookenson, Julia Wei, Ursula Brain, Angela Devlin
-

(Event 1-033) Paper Symposium
Salon 17
Thursday, 3:15 pm - 4:45 pm

Infants' understanding of social relationships and social structure

Chair: Katherine Kinzler

- Fifteen-month-old infants evaluate fair and unfair individuals
Jessica Sommerville
 - Infants' inferences about third-party affiliation
Zoe Liberman, Katherine Kinzler, Amanda Woodward
 - Early reasoning about social structures: Problem decomposition and expectations of transitivity guide infants' discovery of social dominance hierarchies
Olivier Mascaró, Gergely Csibra
 - Third Party Preferences for Imitation in Preverbal Infants
Lindsey Powell, Elizabeth Spelke
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(Event 1-034) Paper Symposium
Salon 2+3
Thursday, 3:15 pm - 4:45 pm

Logical negation in infants

Chair: Gergely Csibra

Thursday

- Choosing different or avoiding the same?
Jean-Remy Hochmann, Shilpa Mody, Susan Carey
- Prelinguistic negation: evidence from infants disjunctive reasoning
Nicoló Cesana-Arlotti, Erno Teglás, Luca Bonatti
- "Not to be": Do infants use negation in attributing a belief about the ceased existence of an object?
Ágnes Kovács, Erno Teglás

(Event 1-035) Paper Symposium
Salon 4+5
Thursday, 3:15 pm - 4:45 pm

When Infants Look at Objects, are They Learning? Dynamics and Dissociations of Attention and Memory Across Learning Environments

Chair: *Haley Vlach*

- Visual Attention Skill Predicts Infants' Word Learning
Alexa Romberg, Linda Smith, Chen Yu
- Dissociations Between Toddlers' Visual Attention to and Subsequent Memory for Information Presented In-Person and on Video
Heather Kirkorian, Heather Lavigne, Katherine Hanson, Georgene Troseth, Daniel Anderson
- Relevancy of Socially Generated Visual Experiences to Infants' Learning History
Hanako Yoshida, Joseph Burling

(Event 1-036) Paper Symposium
Salon 7
Thursday, 3:15 pm - 4:45 pm

Cascading Handedness Development During Infancy

Chair: *George F. Michel*

- Handedness for Object Acquisition Concatenates into Handedness for Unimanual Manipulation in Infancy
Julie Campbell, Iryna Babik, Emily Marciniowski, George Michel

- Cascade of Handedness Development in Infancy: From Object Acquisition Through Unimanual Manipulation to the Role-Differentiated Bimanual Manipulation
Iryna Babik, Julie Campbell, George Michel
- The Influence of Handedness on Emerging Constructing Skill
Emily Marciniowski, Julie Campbell, George Michel
- Latent Class Analysis Reveals Three Trajectories of Handedness Development for Acquiring Object in 6 to 14 Month-old Infants
George Michel, Iryna Babik, Julie Campbell, Emily Marciniowski

Thursday, 3:30 pm - 5:00 pm

(Event 1-037) Poster Session 3

Hall Maritim (Exhibit Hall)
Thursday, 3:30 pm - 5:00 pm

- 1 Action prediction without motor experience in 8-month-old infants: evidence from looking time and electrophysiological measures
Carina de Klerk, Victoria Southgate, Gergely Csibra
- 2 Using social cues to bind action sequences: a developmental transition
Christine Fawcett, Gustaf Gredeback
- 3 Heart Rate Variability as a Predictor of Infants' Auditory and Visual Processing
Chris Robinson, Tracey Miser, DeWayne Williams, Julian Thayer, Vladimir Sloutsky
- 4 Infants simultaneously encode numerical and temporal information
Ariel Starr, Elizabeth Brannon
- 5 Altered Motor Planning in 10-month-olds At-risk for Autism
Therese Ekberg, Gustaf Gredeback, Terje Falck-Ytter, Julia Reichling, Sven Bölte

Thursday

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| 6 | <p>A longitudinal evaluation of parent-child interaction in the context of toddlers at high-risk of autism <i>Kristelle Hudry, Megan Grant, Rachael Bedford, Greg Pasco, Vicky Slonims, Jonathan Green, Mayada Elsabbagh, Mark Johnson, Tony Charman</i></p> | 13 | <p>The early development of cooperation and its relation with later peer acceptance <i>Hinke Endedijk, Toon Cillessen, Harold Bekkering, Sabine Hunnius</i></p> |
| 7 | <p>Autonomy support toward toddlers: A study among daycare educators <i>Mireille Joussemet, Karol-Ann Sorel, Charlie Brouillard</i></p> | 14 | <p>If you delay I will not stay: Infants' sensitivity to delay during pick up actions <i>Valentina Fantasia, Gabriela Markova, Alessandra Fasulo, Vasudevi Reddy</i></p> |
| 8 | <p>Prospective-longitudinal study of behavioral problems in children born preterm and low birth weight <i>Claudia Gaspardo, Fabiola Nobre, Ana Claudia Castro, Maria Eduarda Pedro, Francisco Martinez, Maria Beatriz Linhares</i></p> | 15 | <p>Toy Challenge: Parental Guidance During Infant Play in Taiwan and the U.S. <i>Su-hua Wang, Yu Zhang, Shinchieh Duh</i></p> |
| 9 | <p>Behavior problems in toddler born extremely preterm <i>Maria Beatriz Linhares, Claudia Gaspardo, Fabiola Nobre, Ana Claudia Castro, Maria Eduarda Pedro, Francisco Martinez</i></p> | 16 | <p>International Infant Adoption: Is Age at Placement a Predictor for Later Adjustment? <i>Waganesh Zeleke, Lynne Koester</i></p> |
| 10 | <p>Int./externalized behavior problems and caregiving quality in children exposed to early institutionalization in the Philippines <i>Geneviève Michel, Chantal Cyr, Caroline Poulin</i></p> | 17 | <p>Neural correlates of 15-month-old infants' false belief processing. An ERP study <i>María Crespo Lladó, Vincent Reid, Elena Geangu</i></p> |
| 11 | <p>Infant Brain Activity Associated with Representing One vs Multiple Occluded Objects <i>Denis Mareschal, Jordy Kaufman, Renee Rowsell, Angela Mayes, Amanda Grbic, Leon Iaria, Leila Dafner</i></p> | 18 | <p>Transitions in the Patterns of Frontal Activation During Self-Regulation: A Longitudinal Analysis from 5 to 10 Months of Age <i>Kimberly Cuevas, Martha Ann Bell, Lauren Bryant, Vinaya Rajan, Susan Calkins</i></p> |
| 12 | <p>Dynamic prefrontal function regulating self-referential vs. external-focused attention in 5-6 month-old infants <i>Yasuyo Minagawa, Kiyomi Yatabe, Ei-ichi Hoshino, Soichiro Matsuda, Masahiro Imafuku, Hiroki Sato, Mina Yoshimura, Atsushi Maki</i></p> | 19 | <p>Developmental changes in infants' ability to categorize anger and disgust emotional expressions <i>Ashley Ruba, Kristin Johnson, Kelsey Lucca, Makeba Wilbourn, Lasana Harris</i></p> |
| | | 20 | <p>Continuities and Discontinuities in the Interplay Between Prenatal Depression and Multiple Risk Genotypes in the Prediction of Dysregulation Throughout Early Childhood <i>Vanessa Babineau, Cathryn Gordon Green, Alexis Jolicoeur Martineau, Minde Klaus, Roberto Sassi, Martin St-Andre, Normand Carrey, John Kennedy, Michael Meaney, Ashley Wazana</i></p> |

Thursday

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| 21 | Capturing the Regulation in Emotion Regulation <i>Jason Bendezu, Nilam Ram, Pamela Cole, Patricia Tan</i> | | Preferences Depend on Native Speakers? <i>Brigitta Keij, René Kager</i> |
| 22 | Three-year-olds' facial EMG responses to emotions expressed by faces and bodies <i>Elena Geangu, Ermanno Quadrelli, Emanuela Croci, Chiara Turati</i> | 31 | Comprehension of Goal Path and Source Path Terms in 14- to 18-Month-Old Infants <i>Daphne Labropoulos, Laura Lakusta, Jessica Bury, Megan Sommer, Katie Wiseman, Omaris Garcia, Sara Berdeu, Alexa Steinberg</i> |
| 23 | The Fixation Shift test identifies early attention deficits in infants related to severity of perinatal brain injury (PBI) <i>Janette Atkinson, Morag Andrew, Christine Montague-Johnson, Anil Kopuri, Jeremy Parr, Peter Sullivan, Oliver Braddick</i> | 32 | Referential Expectation in Infancy <i>Hanna Marno, Teresa Farroni, Jacques Mehler</i> |
| 24 | Salient goals and frequency information boost infants' predictive learning of observed human actions <i>Claudia Elsner, Ivanina Henrichs, Frank Papenmeier, Gustaf Gredeback, Birgit Elsner</i> | 33 | Development of Educationally Relevant Competencies: Introducing the Birth Cohort of the National Educational Panel Study <i>Manja Attig, Sabine Weinert</i> |
| 25 | The Effect of Early Visual Deprivation on the Development of Judgments of Attractiveness <i>Larissa Vingilis-Jaremko, Daphne Maurer</i> | 34 | The Convergent and Predictive Value of The Maternal Responsiveness Questionnaire <i>Jin Qu, Esther Leerkes</i> |
| 27 | The Influence of Infant-directed Speech on 12-month-olds' Intersensory Perception of Fluent Speech <i>Claudia Kubicek, Anne Hillairet de Boisferon, Judit Gervain, Olivier Pascalis, Helene Loevenbruck, Gudrun Schwarzer</i> | 35 | The Effects of Maternal Psychological Distress, Self-Efficacy and Social Disadvantage on Language-Promoting Dimensions of Maternal Responsiveness <i>Anna Ryder, Michelle McGillion, Rebecca Knowles, Danielle Matthews</i> |
| 28 | Multimodal priming effects for human and furniture items in 7-month-old infants <i>Stefanie Peykarjou, Julia Wissner, Sabina Pauen</i> | 36 | Infant EEG and Mother-Infant Interactions Predict Explicit Memory Performance at 36 Months <i>Tashauna Blankenship, Leslie Patton, Martha Ann Bell</i> |
| 29 | What makes things happen?: Cross-linguistic investigation of how children describe causal events <i>Junko Kanero, Kathy Hirsh-Pasek, Roberta Golinkoff</i> | 37 | The Effects of Exposure to Dynamic Expressions of Affect on 5-Month-olds' Memory <i>Ross Flom</i> |
| 30 | Speaker Dependency in Rhythmic Preference Studies: do Native | 38 | Infant sleep and maternal well-being: Associations at 6 and 12 months after birth <i>Carolin Konrad, Sabine Seehagen, Lea Lockmann, Jane Herbert, Silvia Schneider</i> |

Thursday

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| <p>39 Variability of the co-contraction indexes of the lower limb in children with DS during the initial period of gait acquisition. <i>Ana Paula Gontijo, Marisa Mancini, Flavia Barbosa</i></p> | <p>49 Infants' Gaze Patterns on Speaking Faces as a Function of Synchrony and Competing Distractors <i>Renee Davis, Alison Heck, Robin Panneton</i></p> |
| <p>40 Infants' adaptation to object weight <i>Janna Gottwald, Claes von Hofsten, Gustaf Gredeback</i></p> | <p>50 Selection via Suppression Counteracts the Other-Race Effect Among 9-month-old Infants <i>Julie Markant, Lisa Oakes, Dima Amso</i></p> |
| <p>41 Six-month-old Infants can Track Frequency Distributions of Numerosities <i>Melissa Libertus, Justin Halberda, Lisa Feigenson</i></p> | <p>51 Development of spontaneous and social smiling in early infancy: a longitudinal study <i>Fumito Kawakami</i></p> |
| <p>42 Operational momentum during magnitude ordering in 12-month-old infants <i>Viola Macchi Cassia, Valeria Gariboldi, Hermann Bulf, Koleen McCrink, Maria Dolores de Hevia</i></p> | <p>52 Ostensive Cues Help Infants Acquire Object Function <i>Marta Gunin, Janet Bang, Melissa Ferland, Aparna Nadig, Kristine Onishi</i></p> |
| <p>43 Infant security of attachment and subsequent cognitive development: The moderating role of sleep <i>Marie-Ève Bélanger, Annie Bernier, Julie Carrier, Valérie Simard</i></p> | <p>53 Do Infants Generalize Other People's Emotional Dispositions Across Contexts? <i>Theresa Hennings, Betty Repacholi, Andrew Meltzoff, Kelly Scott</i></p> |
| <p>44 Emotional Expressiveness in Secure and Insecure Mother-child and Father-Child Dyads <i>Eric Lindsey, Yvonne Caldera</i></p> | <p>54 Young Children's Selective Trust Depends on Correct Identification of Model Traits <i>Jonas Hermes, Tanya Behne, Hannes Rakoczy</i></p> |
| <p>45 Modelling Infant Phonological Development <i>Ali Karami, Suresh Manandhar, Marilyn Vihman</i></p> | <p>55 The Interrelation of Parent-Infant Interaction with Infants' Social Referencing and Learning Behaviour <i>Andy Schieler, David Buttelmann</i></p> |
| <p>46 Consonant/Vowel Asymmetry in Early Word Form Recognition <i>Silvana Poltrock, Thierry Nazzi</i></p> | <p>56 Socioeconomic Status is Associated with Language and Memory Development in the First Two Years <i>Natalie Brito, Laura Engelhardt, Luke Mack, Elizabeth Nail, Rachel Barr, William Fifer, Amy Elliot, Kimberly Noble</i></p> |
| <p>47 One and Done: the Relative Impact of Psychosocial Factors on Having One Child Compared to Two Children <i>Julie Cassé, Brenda Volling, Mirjam Oosterman, Carlo Schuengel</i></p> | <p>57 Early development of prosodic processing: a mismatch negativity study <i>Linda Garami, Anett Ragó, Ferenc Honbolygó, Valéria Csépe</i></p> |
| <p>48 Birth Outcomes of Participants in a Prison-Based Pregnancy & Parenting Pilot Program <i>Erin Casey, Rebecca Schlafer</i></p> | |

Thursday

- 58 The effect of lexical stress on the perception of phonemic details in 17-month-old bilingual and unilingual infants
Sophie Godbout-Beaulieu, Christopher Fennell
- 59 Genetic markers of infant difficult temperament
Zdenka Bajgarova
- 60 Infant Predictors of Toddler Effortful Control: A Multi-Method Developmentally Sensitive Approach
Nora Erickson, Maria Gartstein, Theodore Beauchaine
- 61 4-month infant Motor reactivity and Negative Affect predicts Behavioral Inhibition at One but not Two Years of Age: Replication Across Three Independent Samples
Sara Haas, Nathan Fox, Jerome Kagan
- 62 Spatial reference frames for touch, and crossmodal spatial representation of touch and vision in the first year of life
Jannath Begum Ali, Livia Freier, Andrew Bremner
- 63 Physiological and behavioral responses reveal human infants' sensitivity to pleasant touch
Tobias Grossmann, Merle Fairhurst, Line Löken
- 64 Young Australian toddlers recognize Cockney-accented words involving only "category-goodness" differences in consonant pronunciations from Australian English
Catherine Best, Sophie Gates, Christine Kitamura, Gerard Docherty, Melanie Pinet, Bronwen Evans
- 65 Eye gaze supports 2-year-olds' use of cross-situational information in verb learning
John Bunce, Rose Scott
- 66 Can knowledge of lexical stress influence word-referent mapping?
Jennifer Campbell, Suzanne Curtin, Erik Thiessen

Thursday, 5:00 pm - 6:00 pm

(Event 1-038) Keynote Speaker
Hall Berlin B+C
Thursday, 5:00 pm - 6:00 pm

A Kantian Animal: Core Knowledge of object, space and number

Chair: Mark H. Johnson
Keynote Speaker: Giorgio Vallortigara

Abstract: Studies on the ontogenetic origins of human knowledge suggest that cognition does not arise as a blank slate. On the contrary, the human mind appears to be built on a set of core knowledge systems that represent significant aspects of the environment such as physical objects, living beings, spatial relationships, and number. Core knowledge systems are evolutionarily ancient, and they can be investigated from a comparative perspective. I shall discuss evidence showing precocious abilities in nonhuman species to represent (a) inert objects with their basic mechanical properties, (b) the cardinal and ordinal aspects of numerical cognition, and (c) the geometrical relationships among extended surfaces in the surrounding layout. Controlled rearing studies suggest that the abilities associated with core knowledge systems of objects, number, and geometry are observed in animals in the absence (or with very reduced) experience, thus supporting a nativistic foundation of such cognitive mechanisms.



Biography: Giorgio Vallortigara is Professor of Neuroscience and Director of the Centre for Mind/Brain Sciences at the University of Trento, Italy. His major research interest is the study of cognition in a

comparative and evolutionary perspective, with particular reference to the mechanisms underlying the use of geometry in spatial navigation and the origins of number and object cognition in the animal brain. He also studied

Thursday

extensively the evolution of the asymmetry of the brain. He discovered functional brain asymmetry in the so-called "lower" vertebrate species (fish and amphibians). Professor Vallortigara's most recent work has focused on the study of brain and cognition in insects. On all these topics he has contributed numerous articles to scientific journals and books chapters, and is the author with L.J. Rogers and R.J. Andrew of the monograph "Divided Brains" (Cambridge University Press, 2013).

Thursday, 6:15 pm - 7:45 pm

(Event 1-039) Poster Session 4

Hall Maritim (Exhibit Hall)

Thursday, 6:15 pm - 7:45 pm

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|---|---|----|--|
| 1 | Bilingual infants' accommodation of familiar and unfamiliar accented speech <i>Christopher Fennell, Tamara Hudon</i> | 7 | One Language Versus two: Interactions Between Language Experience and Cognitive Abilities in Word Learning and Word Recognition <i>Giovanna Morini, Rochelle Newman</i> |
| 2 | Divergent development of phonologically specified word forms: 15-month-olds' sensitivity to vowel variation, and 19-month-olds' sensitivity to consonant variation <i>Karen Mulak, Catherine Best, Michael Tyler, Christine Kitamura</i> | 8 | Language discrimination in bilingual and monolingual infants <i>Loreto Nácar, Núria Sebastián-Gallés</i> |
| 3 | Infants' online encoding of give-me gestures during observation of collaborative actions <i>Claudia Elsner, Marta Bakker, Katharina Rohlfing, Gustaf Gredeback</i> | 9 | Sensory regulation in young maltreated children: The role of maternal sensitivity. <i>Aliya Mubarak, Lory Zephyr, Marie Deschênes, Daniel Paquette, Chantal Cyr</i> |
| 4 | Up, down, over, under: The acquisition of spatial particles in toddlers <i>Margaret Friend, Danielle Rosen, Jelena Danilov</i> | 10 | Sociocommunicative Development in Maltreating Mothers and Their Children <i>Rowena Ng, Fred Rogosch, Sheree Toth, Dante Cicchetti, Dante Cicchetti</i> |
| 5 | Faces compete against novelty to attract attention: evidence from a study with a IOR paradigm and infants <i>Elena Natale, Valentina Ghirardi, Francesca Simion</i> | 11 | Infants Attribute Psychological and Biological Properties to Self-Propelled Agents <i>You-jung Choi, Jin Seok, Yuyan Luo</i> |
| 6 | Individual Differences in Infant Fixation Duration relate to Attention and Behavioral Control in Childhood <i>Kostas Papageorgiou, Tim Smith, Rachel Wu, Mark Johnson, Natasha Kirkham, Angelica Ronald</i> | 12 | Discontinuity in Early Cognitive Development: The Case of Physical Reasoning About Support <i>Horst Krist, Franziska Stallbaum</i> |
| | | 13 | How Do Turkish Learners and Their Caregivers Integrate Discourse-pragmatic Knowledge and Gestures in Their Referential Expressions? <i>Beyza Ates Sen, Aylin Kuntay</i> |
| | | 14 | The Role of Acoustic Characteristics in Adult Judgements of Infant Cry <i>Gianluca Esposito, Jun Nakazawa, Paola Venuti, Marc Bornstein</i> |
| | | 15 | 8 month old and not 4 month old infants follow the direction of arrows. <i>Milad Ekramnia, Jacques Mehler</i> |
| | | 16 | The role of categorization experience in the induction strategies and in the generalization development of in infancy <i>Alexey Kotov, Tatyana Kotova</i> |

Thursday

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| 17 | <p>Is the bird in the hand or the hand itself? Why children sometimes use body-parts-as-objects in pantomime <i>Elena Nicoladis</i></p> | | <p>Proto-Declarative Gestural Bids and Noun Vocabularies <i>Janet Olson, Elise Masur</i></p> |
| 18 | <p>Infant Perception of 3D Illusory Contours as Occluding Surfaces <i>Michael Kavšek, Elmira Marks</i></p> | 27 | <p>Gender and Socio-cultural Differences in Infants Production and Comprehension of Declarative Pointing <i>Paola Perucchini, Cristina Colonnese, Hanna van Hoeven, Susan Bögels, Tiziana Aureli</i></p> |
| 19 | <p>Infant Frontal EEG Power and Coherence Predict Executive Function Performance at Age 4 <i>Martha Ann Bell, Jungmeen Kim-Spoon, Leslie Patton</i></p> | 28 | <p>Oxytocin in pregnancy and the postpartum: relations to labor and its management <i>Marie Prevost, Phyllis Zelkowitz, Togas Tulandi, Barbara Hayton, Nancy Feeley, C. Sue Carter, Lawrence Joseph, Erin Yong Ping, Haim Abenheim, Ian Gold</i></p> |
| 20 | <p>EEG correlates of speech understanding in 2.5 to 3.5 year old children: comparison of family-reared and institutionalized Ukrainian children <i>Vadym Bielalov, Anna Kulenkova, Volodymir Pavlenko, Olga Kochukhova</i></p> | 29 | <p>Understanding the Mechanism and Function of Neonatal Imitation <i>Janine Oostenbroek, Virginia Slaughter, Mark Nielsen, Thomas Suddendorf</i></p> |
| 21 | <p>Is the recognition of fear in infancy influenced by perceptual narrowing? <i>Kristina Safar, Andrea Kusec, Margaret Moulson</i></p> | 30 | <p>Rational Imitation in Infancy and Early Childhood: the Role of Verbal Information <i>Christiane Patzwald, Nastasja Radszun, Caroline Pfeifer, Birgit Elsner</i></p> |
| 22 | <p>Two year olds generalize negative but not positive preferences across individuals <i>Amrisha Vaish, Tobias Grossmann, Amanda Woodward</i></p> | 31 | <p>Chinese Caregivers' Language to 2-year-old Infants During Everyday Routines <i>Rufan Luo, Huining Liu, Yanchun Liu, Yana Kuchirko, Catherine S. Tamis-LeMonda, Yanjie Su</i></p> |
| 23 | <p>Social face movements allow face recognition at birth <i>Valentina Angeli, Irene Leo, Francesca Simion</i></p> | 32 | <p>The Use of Automated Language Environment Analysis (LENA) in Understanding Language Profiles in Young Children with Down Syndrome <i>Chandni Parikh, Payal Anand, Jamie Edgin, Ann Mastergeorge</i></p> |
| 24 | <p>Gender and facial expression interact in the looking preferences of 3-month-olds <i>Laurie Bayet, Paul Quinn, James Tanaka, Kang Lee, Edouard Gentaz, Olivier Pascalis</i></p> | 33 | <p>Infants' Real-Time Language Exposure across Everyday Routines <i>Catherine S. Tamis-LeMonda, Yana Kuchirko, Jonna Knudsen, Rufan Luo, Huining Liu, Kelly Escobar</i></p> |
| 25 | <p>Can children at risk for language delay be identified by analyzing their deictic gesture usage at infant age? <i>Carina Lüke, Angela Grimminger, Katharina Rohlfing, Ulf Liszkowski, Ute Ritterfeld</i></p> | 34 | <p>Quantifying the dynamics of mother-infant coordinative behaviour <i>Ralf Cox, Marijn van Dijk</i></p> |
| 26 | <p>Mothers' Object-Labeling Responses Mediate the Relation between Infants'</p> | | |

Thursday

- 35 Towards designing language and cognition experiments on touchscreens: Gesture prevalence in infancy
Alejandrina Cristia, Amanda Seidl, Luce Legros, Sonia Gharbi, Nicolas Esposito
- 36 Mismatch negativity reflects phonemic as well as lexical discrimination: Does this also hold for toddlers?
Iris-Corinna Schwarz, Ellen Marklund, Annika Schwittek
- 37 How (and why) should we study Empathic processes, Theory of mind abilities and Executive Control skills to understand moral cognition?
Marine Buon, Ana Seara-Cardoso, Essi Viding
- 38 Young children's differentiation of categorical and hypothetical imperatives
Marina Josefs, Hannes Rakoczy
- 39 Maternal Controlling Behaviors During Infancy: Prediction To Infants' Later Socio-Emotional Development
Brenda Harvey, Celia Matte-Gagne, Dale Stack, Lisa Serbin
- 40 Associations between mothers' representations of their children and maternal mind-mindedness: focusing on mothers' difficulties in accessing their infants' images
Shinsuke Kabaya
- 41 Movement-Attention Coupling at 3 Months Predicts Attention Problems at 8 Years
Steven Robertson, Alyssa Jacobson, Zin Chan
- 42 Contribution of trunk control to development of upper extremity movement.
Sandra Saavedra, Emily Bowns, Marjorie Woollacott
- 43 Processing of Biological and Mechanical Motion in the Infant Brain
Marisa Biondi, Teresa Wilcox
- 44 Neonates are already able to extract words from continuous speech based on statistical information
Ana Fló, Alissa Ferry, Jacques Mehler
- 45 Scalp locations projected to cortical anatomy for infant NIRS.
John Richards
- 46 The Baby Elmo Program: Improving Parenting Attitudes of Incarcerated Teen Fathers
Rachel Barr, Emily Perkins, Kelly Smith, Benjamin Richeda, Carole Shauffer, Jennifer Rodriguez
- 47 Early Limit Setting Beliefs about Infant Sleep are Associated with Coparenting Quality When the Infant is 12-months Old
Jonathan Reader, Douglas Teti
- 48 Active Touch in Early term and Preterm Neonates
François Jouen, Morgane David, Coralie Sann, Yacine Touré, Bernard Guillois, Michèle Molina
- 49 The Effect of Postnatal age on Early Tactile Manual Abilities of the Preterm Infant
Fleur Lejeune, Frédérique Berne-Audéoud, Leïla Marcus, Thierry Debillon, Edouard Gentaz
- 50 Does Premature Birth lead to Permanent Visual Deficits?
Terri Lewis, Louis Schmidt, Daphne Maurer
- 51 Infant Sensitivities to Native-Language Sound Structure Predict Comprehension in Full-term & Preterm 2-Year-Olds
Glenda Molina-Onario, James Morgan
- 52 Maternal and Neonatal Factors Associated with Neurodevelopmental Outcomes in Preterm Infants
Rita Pickler, Jeanne Ruiz, Jareen Meizen-Derr, Suhas Kallapur
- 53 The Development of Child Resilience: The Need for Early Exposure to Risk

Thursday

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| | <p><i>Xiaoning Sun, Jeffrey Measelle, Jennifer Ablow</i></p> | 62 | <p>Attachment Security: The Role of Infant, Maternal, and Contextual Factors <i>Sydney Iverson, Maria Gartstein, Sabrina Johnson</i></p> |
| 54 | <p>Behavioral Development in Toddlers with Siblings: Relations with Fathers' and Mothers' Treatment of both Children <i>Sheila Van Berkel, Marleen Groeneveld, Judi Mesman, Joyce Endendijk, Elizabeth Hallers-Haalboom, Lotte Van der Pol, Marian Bakermans-Kranenburg</i></p> | 63 | <p>Temperament and activity levels of term and preterm infants <i>Lynn Jensen, Jan Piek, Jenny Downs</i></p> |
| 55 | <p>It's all About the Combination: The Effect of Sibling Gender Configuration on Child Behavior and Parenting <i>Lotte Van der Pol, Judi Mesman, Marleen Groeneveld, Joyce Endendijk, Sheila Van Berkel, Elizabeth Hallers-Haalboom, Marian Bakermans-Kranenburg</i></p> | 64 | <p>Eighteen-Month-Olds Show False Belief Understanding in an Appearance-Reality Task for an Object's Identity but not its Color <i>Frances Buttellmann, David Buttellmann</i></p> |
| 56 | <p>Early Reasoning about the Social Dynamics of Inclusion and Exclusion <i>Hyesung Hwang, Natasha Marrus, Lori Markson</i></p> | 65 | <p>Preschoolers Track Multiple Minds <i>Michelle Cheng, Lu Wang, Alan Leslie</i></p> |
| 57 | <p>Development of social attention in preterm and full-term infants <i>Masahiro Imafuku, Michiyo Inagawa, Yuta Shinya, Norie Kawahara, Fusako Niwa, Masahiko Kawai, Masako Myowa-Yamakoshi</i></p> | 66 | <p>Does Variability Across Events Help Toddlers Learn Verbs? <i>Jane Childers, Clare Burch, Emily Roberson</i></p> |
| 58 | <p>Investigating the factors affecting young children's social and asocial learning preferences <i>Emma Flynn, Cameron Turner, Luc-Alain Giraldeau</i></p> | 67 | <p>Authoritarian Parenting and Infant Negative Affectivity Jointly Contribute to Vocabulary Delay in Infants <i>Wallace Dixon, Jaima Price, Matthew McBee</i></p> |
| 59 | <p>When infants talk, infants listen: Pre-babbling infants prefer infant speech <i>Matthew Masapollo, Linda Polka, Lucie Menard</i></p> | 68 | <p>Talker Variability Does Not Always Facilitate Infants' Word Learning: The Case of Correlated Talker Gender <i>Carolyn Quam, Sara Knight, LouAnn Gerken</i></p> |
| 60 | <p>Probing infants' early speech perception with a dual approach: computational modeling and a pupil dilation study <i>Julien Mayor</i></p> | 69 | <p>Cross-situational word learning from natural utterances <i>Maartje Raijmakers, Siméon Lahaije, Carola Werner, Caroline Junge</i></p> |
| 61 | <p>Infants' Solo and Dyadic Play in the Presence of Background Television is Negatively Related to Vocabulary Acquisition <i>Elise Masur, Valerie Flynn, Janet Olson</i></p> | | |

(Event 1-040) ICIS Welcome Reception
Hall Maritim Foyer and Exhibit Hall

ICIS Welcome Reception

Friday, 8:00 am - 9:30 am

(Event 2-001) Invited Symposium
Hall Berlin B
Friday, 8:00 am - 9:30 am

2-001. Developmental pathways to autism in infants at risk

Chair: Terje Falck-Ytter

Discussant: Gustaf Gredebäck

- Processing speed in infants with later autism
Emily Jones
- Corpus callosum development in infants at-risk for autism
Jason Wolff, Takahiro Soda, Martin Styner, Joseph Piven
- Lead and follow: the importance of mother-child interaction in infants at risk for ASD
Petra Warreyn
- Prodromal features of ASD in the first year of life
Katarzyna Chawarska

Abstract: Autism spectrum disorder (ASD) is a neurodevelopmental condition defined by impairments across the areas of reciprocal social interaction and verbal and non-verbal communication, alongside repetitive and stereotyped behaviors. ASD is typically not diagnosed before two years of life, and to improve knowledge about the early developmental trajectories leading to diagnosis, many researchers longitudinally follow infants at risk for ASD (typically siblings of children with ASD). These studies have started to map the early development in high risk populations across key psychological domains. In parallel, functional and structural aspects of brain development are being assessed. Together these lines of inquiry have established a number of reliable early signs of ASD. In this symposium, new data from several infant sibling studies will be presented. The covered topics range from parent child interaction to attention and brain development - reflecting the multifaceted nature of ASD. Emily Jones will present data collected from multiple tasks in two cohorts of infants with a later ASD diagnosis. Consistently, 6-month-old infants who developed

ASD showed behavioral and neural indicators of more rapid processing than infants with other outcomes; these effects were particularly strong for social stimuli and were not seen in later infancy. She will discuss potential mechanisms and consequences of these effects. Jason Wolff will discuss the morphological development of the corpus callosum in infants at low- and high risk for ASD from 6 to 24 months of age, highlighting new findings suggesting that this structure may differ in children who develop ASD from the first year of life. Petra Warreyn will present data suggesting that the interactive behavior of 18-month-old high-risk infants and their mothers is influenced by infant characteristics, such as joint attention and cognitive skills, measured at 12 months. She will also discuss the relation between mother-infant interaction and 36 month outcomes. Katarzyna Chawarska will summarize recent findings on features that differentiate infants who later develop ASD from those with other developmental outcomes, with the particular focus on social attentional and behavioral findings. Finally, Gustaf Gredebäck will summarize these findings, relating them to typical development and recent data from a Swedish longitudinal sibling study (EASE).

(Event 2-002) Paper Symposium
Salon 1
Friday, 8:00 am - 9:30 am

Understanding the Longitudinal Effects of SES on Language Development in Infancy: Timing, Mechanisms and Early Intervention

Chair: Przemyslaw Tomalski

- Individual Differences in Social Orienting in 6-month-olds as a Longitudinal Predictor of Language and Social Communication Outcomes at Age Two, and Their Relationship to SES
Haiko Ballieux, Derek Moore, Annette Karmiloff-Smith, Mark Johnson, Deirdre Birtles, Elena Kushnerenko, Przemyslaw Tomalski
- Audiovisual Speech Integration at Six Months as a Predictor of Language Outcomes at Age Two in Infants from Families Varying in Income, Occupation, Ethnicity and Language

Friday

Derek Moore, Przemyslaw Tomalski, Haiko Ballieux, Deirdre Birtles, Mark Johnson, Annette Karmiloff-Smith, Elena Kushnerenko

- The Language Gap between Rich and Poor Children Emerges in Infancy
Anne Fernald, Adriana Weisleder, Nancy Otero, Virginia Marchman
- The Relation between Caregiver Contingent Talk, SES and Language Learning: An Intervention Study
Michelle McGillion, Jane Herbert, Julian Pine, Danielle Matthews

(Event 2-003) Paper Symposium
Salon 12-15
Friday, 8:00 am - 9:30 am

Cognitive Mechanisms of Socioemotional Behavior: Attention to Threat, Attention Control, and Profiles of Temperamental Shyness

Chair: Koraly Perez-Edgar

- Links between Attention to Threat in Infancy and Social Withdrawal in Childhood
Koraly Perez-Edgar, Kristin Buss, Elizabeth Allen, Brad Taber-Thomas, Nathan Fox
- Early Reactive and Proactive Control Processes and their Associations with Social Behavior in Early Childhood
Casey Burrows, Heather Henderson, Elizabeth Penela
- Sensitivity to Social and Non-Social Threats in Temperamentally Shy Children At-Risk for Anxiety
Vanessa LoBue, Koraly Perez-Edgar

(Event 2-004) Paper Symposium
Salon 16
Friday, 8:00 am - 9:30 am

Valence-based diagnostic reasoning about socio-morally relevant actions in infants and young toddlers

Chair: Denis Tatone

- Exploring the early relationship between agency attribution and action valence: infants attribute agency to the non-agentive causes of negative outcomes
J. Hamlin, Andrew Baron
- Socially relevant outcomes influence infants' goal ascription
Denis Tatone, Mikolaj Hernik, Gergely Csibra
- Infants anticipate adults' future actions based on their previous actions' social valence
Benjamin Koch, Benjamin Kenward, Christine Fawcett, Gustaf Gredeback
- Inferring intention in double effect scenarios
Sydney Levine, Alan Leslie

(Event 2-005) Paper Symposium
Salon 17
Friday, 8:00 am - 9:30 am

Integrative Models of Language Acquisition

Chair: Emmanuel Dupoux

- A feature-based model of early phonetic category acquisition
Ewan Dunbar
- Active discovery and learning of semantic components in multimodal perceptual flow
Pierre-Yves Oudeyer
- Speech, speakers and objects: word learning against the odds
Maarten Versteegh
- Contextual information helps segmenting words
Gabriel Synnaeve, Isabelle Dautriche

(Event 2-006) Paper Symposium
Salon 2+3
Friday, 8:00 am - 9:30 am

Universality and Cultural Specificity in Early Mother-Infant Interaction: Is the 2-Month Transition Really Universal?

Chair: Manuela Lavelli

Friday

- The Effect of Mother-Infant Skin-to-Skin Contact on Infants' Development of Social Expectations in two Cultures: Canada and Ghana
Ann Bigelow, Michelle Power, Frances Owusu-Ansah, Yasmin Mohammed
- Affect Mirroring in Three Cultures
Tanya Broesch, Philippe Rochat, Kata Olah, James Broesch, Joseph Henrich
- Culture-Specific Manifestations of the 2-Month Shift: The Importance of Cultural Models for Infant Development
Joscha Kärtner, Heidi Keller
- Real-Time Dynamics and Developmental Changes in Early Mother-Infant Interaction: Italian, Cameroonian, and W.A. Immigrant Dyads
Manuela Lavelli, Cecilia Carra, Heidi Keller

(Event 2-007) Paper Symposium
Salon 4+5
Friday, 8:00 am - 9:30 am

Early Understanding of Tool Functions: The Role of Social Communicative Support and Causal Transparency

Chair: *Sandra Waxman*

- Young Infants Form Categorical Representations of Tools Based on Simple Functional Demonstrations
Maayan Stavans, Renée Baillargeon
- Infants Learn Functions of Novel Tools From the Outcomes of Instrumental Actions
Mikołaj Hernik, Gergely Csibra
- Shared Function Knowledge: Infants' Attention to Function Information in Communicative Contexts
Birgit Träuble, Johannes Bätz, Christoph Konieczny

(Event 2-008) Paper Symposium
Salon 7
Friday, 8:00 am - 9:30 am

Coordinating bodies: How hands structure learning opportunities in

natural social contexts over the first two years of life

Chair: *Kaya de Barbaro*

- Contextual Influence on Early Visual Attention to Social Components
Hanako Yoshida, Joseph Burling
- The changing visual availability of hands and objects during "face to face" play
Caitlin Fausey, Linda Smith
- Multimodal shared spaces of attention and action in early infant-caregiver book sharing interactions
Nicole Rossmanith, Alan Costall, Beatriz López, Vasudevi Reddy
- Development of Joint Attention to Objects in Naturalistic Interactions: The role of hands
Kaya de Barbaro, Gedeon Deák, Christine Johnson

Friday, 9:30 am - 11:00 am

(Event 2-009) Poster Session 5

Hall Maritim (Exhibit Hall)
Friday, 9:30 am - 11:00 am

- 1 It's all about the wolf: infants' preference for individual agents within a social interaction
Martyna Galazka, Pär Nyström
- 2 Prior knowledge of actors' goals facilitates encoding of congruent and incongruent uses of a dual-function tool by 16-month-olds
Aine Ni Choisdealbha, Vincent Reid
- 3 Everyday Acts of Unprovoked Harm in Infancy
Mandi Huynh, Audun Dahl
- 4 Perceptual Cues that trigger Perception of Animacy at Birth: The case of Self-propulsion
Elisa Di Giorgio, Marco Lunghi, Giorgio Vallortigara, Francesca Simion

Friday

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| 5 | Effects of Temporal Variations on Spatial Anticipation in Infancy <i>Anna Martínez-Álvarez, Ruth de Diego-Balaguer, Ferran Pons</i> | 14 | Oxytocin and patterns of EEG asymmetry in infants in relation to maternal dysphoric mood <i>Jillian Hardin, Nancy Jones, Krystal Mize, Melannie Pineda</i> |
| 6 | The Effect of Gaze Direction and Fearful Expressions on Saccadic Response in 12-month-old Infants <i>Reiko Matsunaka, Eriko Yamamoto, Kentaro Ishii, Kazuo Hiraki</i> | 15 | The Ontogeny of Differential Sound Processing: ERP Evidence From Infants and Adults <i>Kristi Hendrickson, Margaret Friend, Matthew Walenski, Tracy Love</i> |
| 7 | Development of nonverbal cognitive skills in infants at high risk for ASD from 6-24 months: Insights from the Uzgirishunt Scales <i>Suzanne Macari, Daniel Campbell, Katarzyna Chawarska</i> | 16 | Social and Nonsocial Fear in Late Infancy is Associated with Childhood Anxious Behaviors: Moderation by Infants' Inhibitory Control <i>Rebecca Brooker, Elizabeth Kiel, Kristin Buss</i> |
| 8 | Differences in Object Sharing and Locomotor Development between Infants at Risk for Autism and Typically Developing Infants in the first 15 months of life <i>Sudha Srinivasan, Maninderjit Kaur, Anjana Bhat</i> | 17 | Prevalence of regulatory disorders in the first year of life and associations with maternal mental health <i>Sabrina Fuths, Mirja Hemmi, Dieter Wolke, Silvia Schneider</i> |
| 9 | Logical inference in mapping labels to spontaneous object / movement representations in 4-month-old infants <i>Alan Langus, Amanda Saksida, Marina Nespor</i> | 18 | Parent and Infant Affect Synchrony during Early Infancy: A Longitudinal Perspective <i>Diane Lickenbrock, Victoria Greenwell, Julie Braungart-Rieker</i> |
| 10 | Are Preverbal Infants Confident About Their Own Decisions? <i>Goupil Louise, Sid Kouider</i> | 19 | The Roles of Color and Luminance in Apparent Motion Infant Shape Perception <i>Amy Hirshkowitz, Teresa Wilcox</i> |
| 11 | Infants' physical reasoning about substances: Predicting whether sand should stay in or fall out <i>Kristy vanMarle, Yi Mou, Jin Seok, Lauren Schneider</i> | 20 | Phonological 'Wildness' in Early Language Development: Exploring the Role of Onomatopoeia Using Eye-Tracking <i>Catherine Laing</i> |
| 12 | The Development of Construction from Infancy through Toddlerhood <i>Emily Marcinowski, Eliza Nelson, George Michel</i> | 21 | What Influences Early False-Belief Understanding? Parental Mental-State Talk and 2.5-year-olds' Understanding of False Belief <i>Erin Roby, Rose Scott</i> |
| 13 | Security of Attachment Predicts Maternal Childrearing Practices <i>Lois Muir, Laurel Yorgason, Lynne Koester</i> | 22 | Surprise! 19-month-old Infants Understand the Emotional Consequences of False Beliefs <i>Rose Scott</i> |

Friday

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| <p>23 Mothers' and Fathers' Differential use of Physical Discipline with Boys and Girls and the Role of Parental Gender Stereotypes <i>Joyce Endendijk, Marleen Groeneveld, Judi Mesman, Lotte Van der Pol, Elizabeth Hallers-Haalboom, Sheila Van Berkel, Marian Bakermans-Kranenburg</i></p> | <p>33 Infants' expectations of speakers of native and non-native languages <i>Lillian May, Andrew Baron, Janet Werker</i></p> |
| <p>24 Being mimicked facilitates observational learning in 16-month-old infants <i>Eszter Somogyi, Rana Esseily</i></p> | <p>34 Infants Track Abstract Feature Agreement across Grammatical Categories <i>Andréane Melançon, Rushen Shi</i></p> |
| <p>25 Summative Imitation: A mechanism for innovation? <i>Francys Subiaul, Elizabeth Price, Jordan Miller, Larissa Peizer</i></p> | <p>35 Asymmetry in consonant/vowel processing in recognizing segmented word forms: evidence of a switch between 6 and 8 months of age. <i>Leo Nishibayashi, Thierry Nazzi</i></p> |
| <p>26 Word Learning when the Input is Fragmented: Evidence from Brazilian Portuguese <i>Poliana Barbosa, Claudia Cardoso-Martins, Catharine Echols</i></p> | <p>36 It's not only mental states that count! A selective effect of executive training on children's ability to generate intent-based moral judgment. <i>Marine Buon, Katarina Gvozdic, Emmanuel Dupoux, Celine Dusautois, Sylvain Moutier</i></p> |
| <p>27 Acoustic Analysis of Mandarin Infant-Directed Speech and Infant-Directed Singing <i>Hsiao-Hsuan Chen, Feng-Ming Tsao</i></p> | <p>37 Toddlers' moral vocabulary predicts theory of mind in a moral context <i>Susanne Kristen, Maria Licata, Beate Sodian</i></p> |
| <p>28 Infant-Directed Speech Produced By Depressed Mothers Does Not Support the Induction of Social Preferences <i>Peter Kaplan, Ryan Asherin, Shiva Fekri, JoAnn Vogeli, Kevin Everhart</i></p> | <p>38 Relationship between attachment stability at 12 months and problem behaviors at 18 months and 4 years of age <i>Keumjoo Kwak, Yeonsoo Kim, Sol Lee</i></p> |
| <p>29 Sustained Attention and the Development of Inhibitory Control <i>Maria Johansson, Carin Tillman, Gunilla Bohlin</i></p> | <p>39 Maternal sensitivity in infants' first year of life and infant EEG resting state predict child emotional availability <i>Maria Licata, Markus Paulus, Nina Kuehn-Popp, Beate Sodian</i></p> |
| <p>30 Infants prefer compatible mappings between body size and pitch <i>Erin Hannon, Matthew Rosenthal</i></p> | <p>40 Developing control over one's body: Changes in extraneous movements in the first year of life <i>Hana D'Souza, Dorothy Cowie, Annette Karmiloff-Smith, Andrew Bremner</i></p> |
| <p>31 The relation between social-emotional problems and the preference for contingent feedback of self-generated actions. <i>Norbert Zmyj, Sarah Radukic</i></p> | <p>41 Comparing the Alberta Infant Motor Scale percentile curves ranks with full term Brazilian infants percentile curves <i>Ana Paula Gontijo, Livia Magalhães, Miriam Guerra, Ana Luisa Cardoso</i></p> |
| <p>32 Grammatical Categorization of Nouns in Complex Noun Phrases in 17-Month-Old Infants <i>Sarah Massicotte-Laforge, Rushen Shi</i></p> | |

Friday

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| <p>42 The development of turn-timing in infancy: Assessing comprehension and production <i>Elma Hilbrink, Merideth Gattis, Stephen Levinson</i></p> <p>43 Exploring the Developmental Niche: Differences between US and Germany <i>Cornelia Kirchoff, Ariye Krassner, Sam Putnam, Maria Gartstein</i></p> <p>44 Infants' Responsiveness to Parent Smiles Predicts Later Parent Interactive Play Quality <i>Katherine Martin, Nicole McDonald, Brittany Lambert-Brown, Daniel Messinger</i></p> <p>45 Why do Young Infants Fail at Individuation Tasks? New Evidence for the No-Expectation Account <i>Maayan Stavans, Renée Baillargeon</i></p> <p>46 Prenatal anxiety, depression, and neonatal infant health <i>Anna MacKinnon, Ian Gold, Nancy Feeley, Barbara Hayton, Phyllis Zelkowitz</i></p> <p>47 Allostatic Load during Pregnancy is Associated with Gestational Age at Birth <i>Julie Spicer, Hanna Gustafsson, Elizabeth Werner, Sierra Kuzava, Catherine Monk</i></p> <p>48 Do toddlers help others based on attributions of specific desires? <i>Kathryn Hobbs, Felix Warneken</i></p> <p>49 Spontaneous and coordinated peer helping among 18-month-old children <i>Nadine Kante, Robert Hepach, Michael Tomasello</i></p> <p>50 Gross Motor Development Translates into the Development of Manual Skills <i>Iryna Babik, Gregory Lowry, Julie Campbell, George Michel</i></p> <p>51 Can the Examination of Individual Unimanual Actions Provide Insight into the Development of Unimanual Skill? <i>Julie Campbell, Iryna Babik, George Michel</i></p> | <p>52 Motor planning ability in children at High vs. Low Risk for Autism Spectrum Disorder <i>Valentina Focaroli, Fabrizio Taffoni, Eleonora Tamilia, Flavio Keller, Jana M. Iverson</i></p> <p>53 The Relation Between Maternal Self-Regulation and Child Self-Regulation During Early Development <i>Oana Benga, Georgiana Susa</i></p> <p>54 Development of a Coding Scheme for In-Depth Analysis of Infant Self-Regulatory Behavior During Eye-Tracking <i>Karolina Marczuk, Alicja Niedzwiecka, Mateusz Kostecki, Przemyslaw Tomalski</i></p> <p>55 The "Terrible Twos" - do they really exist? A critical test using the new parental questionnaire IMMA 1-6 (Impulse Management) <i>Sabina Pauen, Constanze Schulz, Sabrina Bechtel</i></p> <p>56 Young children's understanding of the norms of distributive justice <i>Marlen Kaufmann, Karoline Lohse, Hannes Rakoczy</i></p> <p>57 Efficiency is not a default: The development of infants' notion of efficiency in action prediction <i>Ezgi Kayhan, Claire Monroy, Sarah Gerson, Sabine Hunnius, Harold Bekkering</i></p> <p>58 Frequency of observation experience matters when 3-year-olds judge other's truthfulness <i>Yeonjung Ko, Youngon Choi, Minji Nam</i></p> <p>59 Does <i>bubano</i> look round? The sound-shape correspondence effect in 4-month-old infants <i>Jovana Pejović, Monika Molnar, Clara Martin</i></p> <p>60 The effect of listening experience on the discrimination of /b/ and /p/ in Hebrew and Arabic-learning infants Osnat Segal, Saja Heila & Liat Kishon-Rabin</p> |
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Friday

Department of Communication Disorders, Sackler Faculty of Medicine
Tel-Aviv University, Israel
Osnat Segal, Saja Heila, Liat Kishon-Rabin

- 61 Infant temperament relates to 3-year-old children's Theory of Mind abilities
Daniela Mink, Anne Henning, Gisa Aschersleben
- 62 Temperamental surgency contributes to acceptance and rejection of novel foods at 6 and 12 months
Kameron Moding, Cynthia Stifter
- 63 Two-Year-Old Infants' Understanding of Preferences as Stable Mental States
Laura Garvin, Amanda Woodward
- 64 Infants can compute others' beliefs about numerosity
Dora Kampis, Ágnes Kovács
- 65 Using somatosensory mismatch negativity (sMMN) elucidates representations of tactile space in the first year of life
Frances Le Cornu Knight, Silvia Rigato, Andrew Bremner
- 66 Communicative Functions of Mutual Touching During Mother-Infant Face-to-Face Still-Face Interactions
Irene Mantis, Kimberly Burnside, Kelly Doiron, Dale Stack
- 67 Developmental Continuity in the Nature of Lexical Representations
Jie Ren, James Morgan
- 68 Early word learning in the preferential looking laboratory: Association or word learning?
Graham Schafer, Annaliza Dowding, Lucy McAnallen

Friday, 9:45 am - 11:15 am

(Event 2-010) Dedicated Session
Hall Berlin C
Friday, 9:45 am - 11:15 am

In Honor of Scania de Schonen

Chair: *Olivier Pascalis*

- When epigenesis became a real issue in developmental psychology
Scania de Schonen
- Perception of others' actions and emotions during early development: Evidence from electromyographic recordings
Chiara Turati
- The role of experience during childhood in shaping the other-race effect
Adelaide de Heering
- Functional plasticity in atypical brain development: combining neuroimaging and neuropsychology approaches
Frédérique Liégeois
- A timing puzzle: when the clock goes wrong
Christine Deruelle, Olivier Pascalis

(Event 2-011) Paper Session
Salon 1
Friday, 9:45 am - 11:15 am

Multiple Mechanisms for Intuiting Meaning

Chair: *Suzanne Curtin*

- Bye-bye Mummy - Word Comprehension in 9-month-old Infants
Corinne Syrnyk, Kerstin Meints
- Learning to accommodate syntactic violations during online speech perception
Marieke van Heugten, Anne Christophe
- Learning the rules: Italian-learning 12- to 24-month-olds link morphological regularities to conceptual distinctions
Alissa Ferry, Marina Nespor, Jacques Mehler

Friday

- Domain knowledge in real-time word recognition: Evidence that lexical processing skill is not a unitary construct
Arielle Borovsky, Erica Ellis, Julia Evans, Jeffrey Elman
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(Event 2-012) Paper Session
Salon 12-15
Friday, 9:45 am - 11:15 am

Infants' emotion perception and understanding: Diverse methods and techniques to access infants' emotion processing

Chair: Robin Panneton

- The Development of Infant Differential Behavioral Responding to Discrete Emotions
Eric Walle, Peter Reschke, Joseph Campos, Linda Camras
 - Examination of Infants' Negativity Bias in Emotion Perception Using Bimodal Dynamic and Static Displays
Alison Heck, Robin Panneton, Laura Mills-Smith
 - Pupillometry Reveals Reduced Implicit Emotional Reactivity in Autism
Heather Nuske, Kristelle Hudry, Giacomo Vivanti, Cheryl Dissanayake
 - Effect of extremely low birth weight on the later perception of facial expressions
Xiaoqing Gao, Daphne Maurer, Louis Schmidt
-

(Event 2-013) Paper Symposium
Salon 16
Friday, 9:45 am - 11:15 am

A Closer Look at the Origins of Parental Sensitivity in Infancy

Chair: Judi Mesman

- Parental Differential Sensitivity towards Their Two Children: Birth Order Effects or Child Age Effects?
Judi Mesman, Elizabeth Hallers-Haalboom, Marleen Groeneveld, Joyce Endendijk, Lotte Van der Pol, Sheila

Van Berkel, Marian Bakermans-Kranenburg

- Explaining the variability in sensitive maternal behavior across time, siblings, and contexts
Sheri Madigan, Andre Plamondon, Dillon Browne, Jennifer Jenkins
 - A wider view of maternal caregiving behavior: Considering support for child exploration
Annie Bernier, Célia Matte-Gagné, Marie-Ève Bélanger, Natasha Whipple
 - Links Between Maternal Arousal, Regulation and Sensitivity During Distress Eliciting Tasks
Esther Leerkes, Marion O'Brien, Susan Calkins, Andrew Supple
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(Event 2-014) Paper Symposium
Salon 17
Friday, 9:45 am - 11:15 am

Are Early Ingroup Preferences Driven by Familiarity, Similarity, or an Expectation of Ingroup-Love?

Chair: Renee Baillargeon

- 16-month-olds View Helping as Obligatory with Ingroup (but Not Outgroup) Individuals
Kyong-sun Jin, Renee Baillargeon
 - Similarity and Group Membership: Influences on Perception and Behavior in Toddlers
Amy O'Neill, Valerie Kuhlmeier
 - Infants' Social Group Preferences Are Driven by Intragroup Positivity, Not Intergroup Negativity
Anthea Pun, Andrew Baron
 - Are Early Ingroup Preferences Driven by Familiarity or by Ingroup Loyalty? Evidence from Minimal Social Groups
Lin Bian, Renee Baillargeon
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(Event 2-015) Paper Symposium
Salon 2+3
Friday, 9:45 am - 11:15 am

Behavioral and Neural Effects of Action Experience on Early Social Cognition

Friday

Chair: *Sheila Krogh-Jespersen*

- What Happens Next: Action Experience Influences Infants' On-line Action Predictions
Sheila Krogh-Jespersen, Amanda Woodward
- Neural Correlates of Action Perception: Contributions of Active Experience and Motor Skill
Erin Cannon, Nathan Fox, Ross Vanderwert, Amanda Woodward, Pier Ferrari
- Neural Evidence of Short-Term Motor Training in the Infant Brain
Sarah Gerson, Janny Stapel, Sabine Hunnius, Harold Bekkering
- Early Experiences Influence Neonatal Imitative Skills in Macaque Monkeys
Annika Paukner, Elizabeth Simpson, Valentina Sclafani, Amanda Dettmer, Stephen Suomi, Pier Ferrari

(Event 2-016) Paper Symposium
Salon 4+5
Friday, 9:45 am - 11:15 am

Can I Trust you? Infants' Understanding of Reliable Cues

Chair: *Kristen S. Tummeltshammer*

- Do Infants Prefer to Imitate Confidently Demonstrated Actions?
Patricia Brosseau-Liard, Diane Poulin-Dubois
- Infants Monitor the Accuracy of Potential Informants
Kristen Tummeltshammer, Rachel Wu, David Sobel, Natasha Kirkham
- What Toddlers Might Learn From Additional Social Cues When Actions are Equally Intentional and Equally Causally Efficacious
Tamar Kushnir, Yue Yu, Christopher Vredenburgh, Marianella Casasola
- Rational Social Learning in Infancy?: A Discussion of Three Papers
David Sobel

(Event 2-017) Paper Symposium
Salon 7

Friday, 9:45 am - 11:15 am

Biomarking adversity in infants and mothers with cortisol and DHEA in saliva, hair, and nail

Chair: *Cindy Liu*

- HPA axis hormones in fingernails of infants: a new tool to assess prenatal stress biology?
Marion Tegethoff, Jean-Sébastien Raul, Carole Jamey, Mehdi Kehlil, Bertrand Ludes, Gunther Meinlschmidt
- Maternal cortisol concentrations during pregnancy and newborn brain connectivity
Claudia Buss, Sonja Entringer, Nora Moog, John Gilmore, Martin Styner, Damien Fair, Pathik Wadhwa
- Prenatal Stress Predictors of Salivary Cortisol
Elisabeth Conradt, Amy Salisbury, Laura Stroud, Barry Lester
- Longitudinal study of the relationship between self-report of postpartum stress and hair cortisol in mothers and infants
Cindy Liu, Nancy Snidman, Alexandra Leonard, Ed Tronick

Friday, 11:30 am - 12:30 pm

(Event 2-018) Invited Speaker
Hall Berlin B
Friday, 11:30 am - 12:30 pm

'Specificity of effects' of parenting impairments in the context of postnatal depression, and implications for intervention

Chair: *Denis Mareschal*
Speaker: *Lynne Murray*

Abstract: Postnatal depression affects around 13% mothers in High Income Countries. The way in which the disorder is manifest is strikingly variable and, accordingly, it is associated with a wide variety of impairments in parenting. These diverse parenting difficulties are, in turn, predictive of different developmental outcomes in the child, showing, that is, a 'specificity of effects'. These processes will be illustrated principally from the findings of the Cambridge

Friday

longitudinal study of the development of children of postnatally depressed mothers, a study that has followed a sample of 100 children of depressed and well mothers from infancy to 22 years. The implications of the findings from this study for interventions will be outlined, with particular reference to our interventions with families facing severe socio-economic adversity in a peri-urban settlement in South Africa.



Biography: Lynne Murray is Research Professor of Developmental Psychopathology at the University of Reading, and Professor Extraordinary at Stellenbosch University, South Africa. She conducted her studies with

Colwyn Trevarthen in Edinburgh, before moving to Cambridge, UK, where she held a Senior Research Fellowship and established the Winnicott Research Unit. The unit's work is principally focused on studying child development in the context of parental psychiatric disorder (depression, anxiety, and eating disorders) and socio-economic adversity. Arising out of this research to elucidate developmental processes through epidemiological and especially longitudinal, prospective study designs, a further line of work has involved developing evidence-based interventions to address parental disorders and associated parenting difficulties, with a view to preventing adverse child outcome. She is the author of 'The Social Baby' (2000), a book covering the first four months, and has recently published 'The Psychology of Babies: how relationships support development from birth to two' (2014).

(Event 2-019) Invited Speaker
Hall Berlin C
Friday, 11:30 am - 12:30 pm

Learning where to look: infants, models, robots

Chair: Gert Westermann
Speaker: Jochen Triesch

Abstract: Vision is an active process that relies on various kinds of eye movements to selectively attend to and process information from the environment moment by moment. Infants acquire accurate control over their eyes comparatively early, which is why many paradigms use eye movements as a window into infants' cognitive processes. But how do such processes drive our eye movements? And how do infants learn to control their eyes appropriately or even optimally? In this talk I give an overview over several lines of research studying these questions at different levels from basic aspects of binocular vision to the discovery of agency and attention sharing. A central theme of our research is the tight coupling between theoretical and empirical research. Computational theories and robot simulations allow us to better understand and interpret data from infant experiments while also generating testable predictions for future experiments.



Biography: Jochen Triesch received his Diploma and Ph.D. degrees in Physics from the Ruhr-University Bochum, Germany, in 1994 and 1999, respectively. He then spent two years as a post-doctoral fellow at the Computer Science Department of the

University of Rochester, NY, USA. In 2001 he joined the faculty of the Cognitive Science Department of UC San Diego, USA as an Assistant Professor. In 2005 he became a Fellow of the newly founded Frankfurt Institute for Advanced Studies (FIAS), in Frankfurt am Main, Germany. Since 2007 he is the Johanna Quandt Research Professor for Theoretical Life Sciences at FIAS, where he also serves as the vice chairman of the board of directors. He holds professorships at the Department of Physics and the Department of Computer Science and Mathematics at Goethe University in Frankfurt am Main, Germany. His research interests span Computational Neuroscience, Cognitive Science, Developmental Robotics, and Biologically Inspired Computer Vision.

Friday

Friday, 1:30 pm - 3:00 pm

(Event 2-020) Invited Symposium
Hall Berlin C
Friday, 1:30 pm - 3:00 pm

Debate: Imitation and the Mirror Neuron System

Chair: Denis Mareschal

- Infant Imitation: Neural Correlates, Social Cognition, and the "Like-Me" Framework
Andrew Meltzoff
- Imitation, Mirror Neurons and the Wealth of the Stimulus
Cecilia Heyes
- Imitation: Why we don't always imitate faithfully
Harold Bekkering

(Event 2-021) Paper Symposium
Salon 1
Friday, 1:30 pm - 3:00 pm

Maternal perinatal depression and antidepressant exposure: Pathways to infant neurobehavioral dysregulation

Chair: Tim Oberlander

- Prenatal antidepressants, perinatal depression, and serotonin transporter genotype interact to predict infant temperament
Meaghan McCallum, Sherryl Goodman, Joseph Cubells, Adriana Lori, D. Newport, Zachary Stowe
- Maternal perinatal depressive disorder: Prenatal programming of maternal and neonatal cortisol (dys)regulation
Laura Stroud, Stephanie Parade, Margaret Bublitz, Monique Morales, George Papandonatos, Nicki Aubuchon-Endsley
- Fetal Neurobehavioral Development in the Context of Maternal Psychiatric Symptoms, History, and Psychotropic Medication Use

Hanna Gustafsson, Zachary Stowe, D. Newport, Bettina Knight, Natalie Morris, Catherine Monk

(Event 2-022) Paper Symposium
Salon 12-15
Friday, 1:30 pm - 3:00 pm

Coupled NIRS-EEG brain imaging: Studies on early language development

Chair: Isabell Wartenburger

- Context sensitivity of language acquisition: prelexical and word-class learning in childhood as examined by combined EEG-fNIRS
Sonja Rossi, Hellmuth Obrig
- Sensitivity to Word Order at Birth: an EEG-NIRS Study with Newborns
Silvia Benavides, Judit Gervain
- Functional imaging of the auditory responses in premature brain: A High-Density EEG and Optical Imaging Study
Mahdi Mahmoudzadeh, Ghislaine Dehaene-Lambertz, Guy Kongolo, Sabrina Goudjil, Fabrice Wallois

(Event 2-023) Paper Symposium
Salon 16
Friday, 1:30 pm - 3:00 pm

Quality of the family triad during infancy and beyond : Prenatal and postnatal influences

Chair: Marie Deschênes

- Triadic interactions from pregnancy through the first year: Prenatal predictors of postnatal coparenting and family expressiveness
Regina Kuersten-Hogan, Maria Kalpidou, Paula Fitzpatrick
- Early postpartum predictors of triadic family alliance in infancy
Hervé Tissot, France Frascarolo, Nicolas Favez
- Quality or similarity during infancy : What predicts later family alliance functioning ?
Marie Deschênes, Annie Bernier, Chantal Cyr

(Event 2-024) Paper Symposium
Salon 17
Friday, 1:30 pm - 3:00 pm

The challenge of similar-sounding words: cross-linguistic evidence on the consonant bias in familiar and novel word recognition

Chair: Caroline Junge

- Lexical neighborhood effects in Dutch 18-month-olds: Position of disambiguation matters
Caroline Junge, Titia Benders, Clara Levelt
- Consonant onset, medial vowel and consonant coda mispronunciation detection in 20-month-old English-Learning Infants
Jacqueline Turner, Claire Delle Luche, Caroline Floccia
- Evidence of a consonant bias in French and English 16-month-olds in a word-learning task
Silvana Poltrock, Claire Delle Luche, Caroline Floccia, Thierry Nazzi
- Cross-situational learning of phonologically similar words in 12-, 14- and 17-month-olds
Paola Escudero, Karen Mulak, Haley Vlach

(Event 2-025) Paper Symposium
Salon 2+3
Friday, 1:30 pm - 3:00 pm

The Origins of Empathy: New Evidence Regarding Empathic Responding in the First Year of Life

Chair: Maayan Davidov

- Concern for Others During the First Year of Life: 6-Month-Olds' Empathic Responses to Maternal and Paternal Distress
Ronit Roth-Hanania, Anat Kaplan-Regev
- Links Between Empathy, Temperament and Parenting in the First Year of Life

Lior Abramson, Yael Paz, Einat Bartal, Ariel Knafo

- Infants' Empathy to Others' Positive and Negative Emotions
Maayan Davidov, Florina Uzefovsky, Yael Paz
- Experimental Examination of Infants' Empathic Preference
Florina Uzefovsky, Maayan Davidov

(Event 2-026) Paper Symposium
Salon 4+5
Friday, 1:30 pm - 3:00 pm

What head-mounted eye tracking reveals about infants' active vision

Chair: John Franchak

- Head-mounted eye tracking in infant locomotion
Kari Kretch, Karen Adolph
- Infant's coordination of the eyes, hands, and head while guiding reaching movements
John Franchak, Chen Yu
- Rational allocation of attention during word learning in 14-month-olds
Richard Aslin, Celeste Kidd
- Spoken word learning in infants with hearing loss: The role of parent interactions
Irina Castellanos, Derek Houston, Chen Yu, Tonya Bergeson-Dana, David Pisoni, Linda Smith

(Event 2-027) Paper Symposium
Salon 7
Friday, 1:30 pm - 3:00 pm

The Consequences of Locomotor Experience for Psychological Development: Extending the Scope of Study

Chair: David Anderson

- Crawling Infants' Responsiveness to Downward Slope Traversal in a Virtual Moving Room
Moeko Ueno, Ichiro Uchiyama
- Joint Visual Attention in Infants with and without Crawling Experience

Friday

- *Minxuan He, Joseph Campos* 6 Language input and language use in 2-year-old English-Spanish bilingual children
Barbara Conboy, Brenna Lindleaf, Nancy Chavez, Stephanie Grasso, Lori Osborn
- Locomotion and Spatial-Cognitive Development in Infants with and without Spina Bifida
Monica Rivera, David Anderson, Marianne Barbu-Roth
- How does Locomotor Experience Bring about Wariness of Heights? 7 Positive parenting protects against the risk of low birth weight on children's language development
Kiren Chand, Audun Dahl, David Witherington
Mark Wade, Sheri Madigan, Jennifer Jenkins

Friday, 1:45 pm - 3:15 pm

(Event 2-028) Poster Session 6

Hall Maritim (Exhibit Hall)

Friday, 1:45 pm - 3:15 pm

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| 1 | The Effects of Active versus Observational Experience on Infants' Multisensory Integration in a Music Context <i>Sarah Gerson, Andrea Schiavio, Wieteke Hiemstra, Renee Timmers, Sabine Hunnius</i> | 9 | Young children show an elevated body posture after fulfilling their own as well as others' needs <i>Robert Hepach, Amrisha Vaish, Michael Tomasello</i> |
| 2 | An eye Tracking Study of Feeding Actions Performed With Spoons and Chopsticks <i>Dorota Green, Qi Li, Jeffrey Lockman, Gustaf Gredeback</i> | 10 | Motion Cues to Animacy: Unlearned Social Preferences in Visually Naïve Chicks <i>Orsola Rosa Salva, Elena Lorenzi, Massimo Grassi, Lucia Regolin, Giorgio Vallortigara</i> |
| 3 | Increased attentional focus in 2-year-old toddlers with ASD <i>Zsuzsa Kaldy, Sylvia Guillory, Alice Carter, Frances Martinez Pedraza, Annalisa Groth, Erik Blaser</i> | 11 | Are all bilingual infants created equal? Cognitive gains in preverbal Basque-Spanish bilingual and Spanish monolingual infants <i>Monika Molnar, Jovana Pejović, Eiling Yee, Manuel Carreiras</i> |
| 4 | Attention Development and Early Learning: Insights From Eye-tracking Measures of Infants' Fixation Shifts <i>Louisa Kulke, John Wattam-Bell, Janette Atkinson, Oliver Braddick</i> | 12 | Infants understand that an actor's false belief cannot be corrected through rough linguistic communication. <i>Miri Song, Yoon Kim, Hyun-joo Song</i> |
| 5 | The influence of bilingualism on the preference for the mouth region of emotional faces <i>Alba Ayneto, Núria Sebastián-Gallés</i> | 13 | Thee, uhh disfluency effect in children: A cue to discourse status but not object familiarity <i>Sarah Owens, Susan Graham</i> |
| | | 14 | Neural Responses to Multimodal Ostensive Signals in 5-Month-Old Infants <i>Eugenio Parise, Gergely Csibra</i> |
| | | 8 | How Biological Motion triggers Orienting of Attention in 6-Month-old Infants: the Role of Local Motion and Global Form Cues <i>Elisa Di Giorgio, Lara Bardi, Giorgio Vallortigara, Francesca Simion</i> |

Friday

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| 15 | <p>Vulnerability or Sensitivity? Infant Cortisol Reactivity Moderates the Relations Between Attachment and Socioemotional Behaviors <i>Michelle Fong, Jeffrey Measelle, Jennifer Ablow</i></p> | 23 | <p>Mother-Child Mutual Positive Affect Across Contexts: Relations to Mothers' Emotion Talk and Emotion Socialization <i>Feyza Corapci, Hande Benveniste, Sibel Bilge Kancal, Pinar Aldan, Ebru Ger, Figen Eroglu, Ecem Onar</i></p> |
| 16 | <p>Infants behavioural and cortisol responses to an emotional challenge: The influence of familial risk for depression and infant gender <i>Cerith Waters, Stephanie Van Goozen, Rebecca Phillips, Lisa Mundy, Dale Hay</i></p> | 24 | <p>Learning from Others: The Importance of Action in Young Children's Memory <i>Lauren Howard, Amanda Woodward</i></p> |
| 17 | <p>Neonatal clinical variables associated with risk for development problems in preterm infants <i>Claudia Gaspardo, Ana Claudia Castro, Fabiola Nobre, Maria Eduarda Pedro, Francisco Martinez, Maria Beatriz Linhares</i></p> | 25 | <p>Six-month-old Infants' Scanning of Meaningfully Distinct Audiovisual Infant-Directed Faces <i>Claire Noonan, Kate Shepard, Melanie Spence, Elizabeth Wilson</i></p> |
| 18 | <p>Better visual search in infants at-risk for autism predicts poor language <i>Teodora Gliga, Mark Johnson</i></p> | 26 | <p>Developing new approaches to deal with data quality in infant eye-tracking studies <i>Irati Saez de Urabain, Mark Johnson, Tim Smith</i></p> |
| 19 | <p>Infant Regulatory Behaviors Inform Conduct Problem and Callous-unemotional Symptomology in Early Childhood <i>Nicholas Wagner, Roger Mills-Koonce, Michael Willoughby, Cathi Propper, Ginger Moore, Pete Rehder</i></p> | 27 | <p>Dynamics of Habituation: Infants' Discrimination of Affect <i>Ross Flom, Anne Pick</i></p> |
| 20 | <p>EEG Coherence in Infants is Impacted by Early Experiences: Breastfeeding and Kangaroo Mother Care Exposure <i>Nancy Jones, Krystal Mize, Jillian Hardin, Melannie Pineda</i></p> | 28 | <p>Large-scale assessment of Infants' Competencies and Temperament: The SUF-provided data of the German NEPS (National Educational Panel Study) and First Results of the ViVA-Project ("Video-Based Validity Analyses" - DFG-PP 1646) <i>Jan-David Freund</i></p> |
| 21 | <p>Neural Correlates of Infant Goal Prediction and their Relationship to Language <i>Katharina Kaduk, Marta Bakker, Joshua Juvrud, Gustaf Gredeback, Gert Westermann, Vincent Reid</i></p> | 29 | <p>Maternal Sensitivity and Infant's Cognitive Development <i>Daniel Mann, Sabine Weinert</i></p> |
| 22 | <p>Perceptual narrowing and the recognition of facial expressions of emotion <i>Kristina Safar, Andrea Kusec, Margaret Moulson</i></p> | 30 | <p>Mother-Infant Person- and Object-Directed Behaviors in the Culture of Origin, Immigrant Dyads, and the Culture of Destination: A Korean Comparison <i>Linda Cote, Marc Bornstein</i></p> |
| | | 31 | <p>Infants' flexibility in accepting illegal word forms as object labels <i>Ena Vukatana, Suzanne Curtin, Susan Graham</i></p> |

Friday

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| <p>32 Direct, indirect, and dynamic measures of early lexical development: which one is the best predictor of later vocabulary? <i>Pascal Zesiger, Tamara Patrucco Nanchen, Diane Poulin-Dubois, Margaret Friend</i></p> | <p>41 Teach to Reach: Effects of Scaffolded Reaching, Parental Encouragement, Object Motion, and Observation on Reaching Onset <i>Klaus Libertus, Amy Needham</i></p> |
| <p>33 Acquisition of grammatical categories in Chinese-learning infants <i>Zhao Zhang, Rushen Shi, Aijun Li</i></p> | <p>42 Linear or Logarithmic? Five-year-olds' magnitude representations in the number line and the numerical subtraction tasks <i>Yi Mou, Kristy vanMarle</i></p> |
| <p>34 Meaningful differences in maternal and child contingent responses to child utterances during dyadic reading <i>Rebecca Alper, Richard Hurtig</i></p> | <p>43 The larger shall be on the right side. Domestic chicks are better at identifying larger sets when these are located to the right side. <i>Lucia Regolin, Orsola Rosa Salva, Rosa Rugani</i></p> |
| <p>35 Mothers' Contingent Responses to Infant Language and Gestural Communications <i>Catherine S. Tamis-LeMonda, Yana Kuchirko, Lisa Tafuro</i></p> | <p>44 Relationships Between Sociodemographic Risk Factors and Parenting Practices at 29 Months in a Longitudinal Study Conducted Upon Quebec Families <i>Jessie-Ann Armour, Mireille Joussemet, Michel Boivin, Richard Tremblay</i></p> |
| <p>36 The Leiden Infant Simulator Assessment (LISSA) <i>Alexandra Voorthuis, Dorotheé Out, Rixt van der Veen, Ritu Bhandari, Marinus van IJzendoorn, Marian Bakermans-Kranenburg</i></p> | <p>45 Maternal and child temperamental correlates of maternal satisfaction, self-efficacy, and interest in the parenting role <i>Jessica Grady, Katherine Karraker</i></p> |
| <p>37 Infrared-Based Sensing of Infants' Sucking Activity <i>Kentaro Ishii, Masa Ogata, Michita Imai, Kazuo Hiraki</i></p> | <p>46 Wait until your mother gets home! Mothers' and fathers' discipline strategies <i>Elizabeth Hallers-Haalboom, Judi Mesman, Marleen Groeneveld, Sheila Van Berkel, Joyce Endendijk, Lotte Van der Pol, Marian Bakermans-Kranenburg</i></p> |
| <p>38 An Analysis of Methodological Differences in the Study of Infant Manual Preference <i>Sabrina Thurman, Daniela Corbetta</i></p> | <p>47 Precursors of Coordinated Peer Play at 12 Months <i>Gabriela Markova, Maria Legerstee</i></p> |
| <p>39 Infants develop mapping of facial locations: A longitudinal study of hand to mouth transport <i>Bjorn Kahrs, Wendy Jung, Brittany Devries, Madeleine Schwartz, Jeffrey Lockman</i></p> | <p>48 Parental and Child Predictors of Play Among Children with Autism Spectrum Disorders <i>Saime Tek, Puren Kurtsan</i></p> |
| <p>40 Cortical control of muscle activity in term and preterm neonates measured by coherence and Granger causality. <i>Hoshinori Kanazawa, Masahiko Kawai, Tatsuya Mima, Takahiro Kinai, Kougorou Iwanaga, Toshio Heike</i></p> | |

Friday

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| <p>49 Spontaneous motor behavior in fetuses and preterm neonates compared at the same postmenstrual age <i>Giovanna Sineri, Maria Teresa Gervasi, Gianna Bogana, Maria Rosa Tran, Paola Veronese, Damiano Menin, Angela Valente, Angela Costabile, Harriet Oster, Marco Dondi</i></p> | <p>58 The Neurobiology of Early Mother-Infant Interactions: Examining the Role of Maternal Affect Attunement <i>Barbora Siposova, Gabriela Markova</i></p> |
| <p>50 Is word-stress pattern discrimination impaired in preterm infants? <i>Jorgina Solé, Ferran Pons, Gemma Arca, Laura Bosch</i></p> | <p>59 Pointing Hands or Eye Gaze Direction - It's All the Same in the End <i>Manuela Stets, Bennett Bertenthal</i></p> |
| <p>51 Pupil dilation: A marker of 9-month olds' ability to evaluate rationality in a social interaction <i>Joshua Juvrud, Marta Bakker, Katharina Kaduk, Gustaf Gredeback</i></p> | <p>60 Is perceptual grouping of linguistic sequences language-specific during infancy? A French-German cross-linguistic study. <i>Nawal Abboub, Natalie Boll-Avetisyan, Anjali Bhatara, Barbara Höhle, Thierry Nazzi</i></p> |
| <p>52 5-month-olds pupil size differs when viewing moving and static stimuli. <i>Pär Nyström, Martyna Galazka</i></p> | <p>61 Asymmetry in Toddlers' Detection of Missing Consonants in Word Onset Clusters <i>Margarita Gulian, Caroline Junge, Clara Levelt</i></p> |
| <p>53 Settling Infants to Sleep: A Study of Parenting Strategies Across Time <i>Dina Cohen, Anat Scher</i></p> | <p>62 Look Who's Talking Now: Intermodal matching of infant faces and voices by infants <i>Matthew Masapollo, Linda Polka, Athena Vouloumanos, Lucie Menard</i></p> |
| <p>54 Association between maternal anxiety and depression with child nocturnal behavior <i>Marie-Hélène Pennestri, Andrée-Anne Bouvette-Turcot, Meir Steiner, John Lydon, Leslie Atkinson, Minde Klaus, Michael Meaney, Hélène Gaudreau</i></p> | <p>63 Experience shapes infants' learning of faces: Evidence from gamma distribution parameters from a visual preference task. <i>Benjamin Balas, Lisa Oakes</i></p> |
| <p>55 Do Toddlers Transfer Knowledge Which is "Ostensively" Communicated by Objects? <i>Christoph Konieczny, Birgit Träuble</i></p> | <p>64 The discrimination and use of featural information within animate stimuli: an eye-tracking study with infants and adults. <i>Victoria Brelsford, Kerstin Meints</i></p> |
| <p>56 Think fast! The Relationship Between Social Information Processing Speed and Social Competence in Infants <i>Sheila Krogh-Jespersen, Zoe Liberman, Amanda Woodward</i></p> | <p>65 Choreographing two action systems: Reaching while walking among early walkers <i>Jill Dosso, Sandra Herrera, Melissa Edwards, Jean-Paul Boudreau</i></p> |
| <p>57 The social benefits of diverse language exposure in infancy <i>Zoe Liberman, Amanda Woodward, Samantha Fan, Boaz Keysar, Katherine Kinzler</i></p> | <p>66 Independent walking predicts spatial cognition and language: Exploration through self-locomotion as a mediator <i>Ora Oudgenoeg-Paz, Paul Leseman, Chiel Volman</i></p> |

Friday

- 67 Developmental Change in the Processing of Sound Symbolism
Michiko Asano, Guillaume Thierry, Sotaro Kita, Keiichi Kitajo, Hiroyuki Okada, Mutsumi Imai
- 68 Fast Mapping and Postural Control in 15- to 16-month-old Infants
Viridiana Benitez, Linda Smith
- 69 The Role of Perceptual Assimilation in Early Development of Recognition of Words Spoken in Native vs Unfamiliar Regional Accents
Catherine Best, Christine Kitamura

Friday, 3:15 pm - 4:45 pm

(Event 2-029) Paper Symposium
Salon 1
Friday, 3:15 pm - 4:45 pm

Representing the Event for Purposes of Language: Infants' Categorization of Path, Manner, and Ground in Motion Events

Chair: *Laura Lakusta*

- Detecting and categorizing grounds in dynamic events
Tilbe Goksun, Kathy Hirsh-Pasek, Roberta Golinkoff
- Where you are going is more important than how you got there: Infants' categorization of path and manner in dynamic realistic events
Haruka Konishi, Shannon Pruden, Roberta Golinkoff, Kathy Hirsh-Pasek
- Discussant talk
Dare Baldwin
- Infants' Categorization of Sources and Goals in Motion Events
Laura Lakusta, Kathryn Garcia, Jessica Batinjane, Susan Carey

(Event 2-030) Paper Symposium
Salon 12-15
Friday, 3:15 pm - 4:45 pm

Prenatal Tobacco Exposure and Dysregulated Stress Response in Infancy: Effects and Contextual Moderators

Chair: *Laura Stroud*

- Family Context Moderates the Influence of Prenatal Tobacco Exposure on Neonatal Cortisol Stress Response
Stephanie Parade, Monique Morales, George Papandonatos, Laura Stroud
- Prenatal Tobacco Exposure and Stress Reactivity in Infancy: Sex and Maternal Behavior as Moderators
Rina Eiden, Douglas Granger, Pamela Schuetze, Craig Colder
- Prenatal tobacco exposure and infant stress regulation: Dissociation between behavioral and physiological indicators of stress
Stephan Huijbregts, Hanneke Smaling, Jill Suurland, Kristiaan van der Heijden, Hanna Swaab, Stephanie Van Goozen

(Event 2-031) Paper Symposium
Salon 16
Friday, 3:15 pm - 4:45 pm

Input distribution, linguistic knowledge and children's interpretation of word boundaries: The case of liaison

Chair: *Mireille Babineau*

- The Early Acquisition of Liaison
Angelica Buerkin-Salgado, Jennifer Culbertson, Géraldine Legendre, Thierry Nazzi
- Multiword sequences and phonological variants in the lexicon: What can we learn from the acquisition of prenominal liaison in French?
Jean-Pierre Chevrot, Anne Siccardi, Christophe Parisse, Elsa Spinelli
- The effect of liaison knowledge on noun processing in infants
Mireille Babineau, Rushen Shi

Friday

(Event 2-032) Paper Symposium
Salon 17
Friday, 3:15 pm - 4:45 pm

Infants are Active Learners

Chair: Joshua B. Tenenbaum

- How human infants and macaque monkeys allocate their attention to visual and auditory events
Richard Aslin, Celeste Kidd, Steve Piantadosi
- Increases in Infants' Exploration and Learning Following Surprising Events
Aimee Stahl, Lisa Feigenson
- Infants Consider Different Underlying Models When Evaluating Observed Data
Zi Sim, Thomas Griffiths, Fei Xu

(Event 2-033) Paper Symposium
Salon 2+3
Friday, 3:15 pm - 4:45 pm

The phylogenetic and ontogenetic origins of inference mechanisms: Probability, logic and causality

Chair: Stephanie M. Denison

- The origins of probabilistic inference in preverbal infants
Stephanie Denison, Fei Xu
- Intuitive statistics in great apes
Hannes Rakoczy, Josep Call
- Great apes infer food location based on visual trails
Christoph Volter, Josep Call
- The disjunctive syllogism: A case study in logical reasoning in infants and preschoolers
Shilpa Mody, Roman Feiman, Susan Carey

(Event 2-034) Paper Symposium
Salon 4+5
Friday, 3:15 pm - 4:45 pm

Convergent methods to understand how infants watch and learn from screen media.

Chair: Mary Courage

- How are parenting practices and media content associated with early language development?
Deborah Linebarger, Rachel Barr
- Eye-Tracking Techniques for Studying Toddlers' Online Processing of Video
Heather Kirkorian
- Optimising signal-to-noise ratios in Tots TV can create adult-like viewing behaviour in infants.
Tim Smith, Sam Wass, Tessa Dekker, Parag Mital, Irati Saez de Urabain, Annette Karmiloff-Smith

(Event 2-035) Paper Symposium
Salon 7
Friday, 3:15 pm - 4:45 pm

The development of efficient action control in infancy: Functional mechanisms and sequelae

Chair: Markus Paulus

- From exploration to tool use: Adaptive action through striving for efficiency
Bjorn Kahrs, Jeffrey Lockman
- Infants' sequential-action representation: eye-tracking and pupillometric results support concurrent-activation models
Stephan Verschoor, Markus Paulus, Michiel Spape, Szilvia Biro, Bernhard Hommel
- Which way to take? Infants select efficient means to their goals
Markus Paulus, Beate Sodan
- The Effects of Motor Experience on Infants' Prediction of Goal-Directed Actions: Comparing Ipsilateral vs. Contralateral Reaching
Alexis Barton, Bennett Bertenthal

Friday

Friday, 3:30 pm - 5:00 pm

(Event 2-036) Poster Session 7

Hall Maritim (Exhibit Hall)

Friday, 3:30 pm - 5:00 pm

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|---|---|----|---|
| 1 | How do 7- and 14-month-old infants process unfamiliar object-directed actions? - An EEG study exploring perceptual and conceptual processing <i>Maria Schönebeck, Birgit Elsner</i> | 8 | Differences in Object Exploration Skills between Infants at Risk for Autism and Typically Developing Infants in the First 15 Months of Life <i>Maninderjit Kaur, Isabel Park, Sudha Srinivasan, Anjana Bhat</i> |
| 2 | Can Infants Use Fitts' Law to Predict Others' Action Goals? <i>Janny Stapel, Sabine Hunnius, Harold Bekkering</i> | 9 | Representing the absence of objects via negation in communication in infants <i>Eszter Szabó, Ágnes Kovács</i> |
| 3 | Beyond Depression: Mothers with Comorbidity Differ in Neural Response to Their Infant's Cry <i>Heidi Martinez, Maria-Alejandra De Araujo Sanchez, Benjamin Nelson, Lisa Nelson, Jennifer Ablow, Heidemarie Laurent</i> | 10 | Message variability in turn-taking contingent interactions triggers agency attribution <i>Tibor Tauzin, György Gergely</i> |
| 4 | Is attention-directing behavior of mothers in a play-situation related to toddler's attention skills during eye tracking tasks? <i>Marjanneke de Jong, Marjolein Verhoeven, Anneloes van Baar</i> | 11 | The ups and downs of infant locomotion over slopes <i>Whitney Cole, Dejana Mladenovic, Scott Robinson, Karen Adolph</i> |
| 5 | Ostensive Addressing Signals and Quality of Previous Interaction Modulate Attention in 2-year-old Children <i>Lisa Horn, Katalin Oláh, Fruzsina Elekes, Orsolya Kanizsár, József Topál</i> | 12 | Intimate Partner Violence and Attachment Representations in African American Children Living in Rural, Low-Income Communities <i>Hanna Gustafsson, Geoffrey Brown, W. Roger Mills-Koonce, Martha Cox</i> |
| 6 | Neonatal Susceptibility for Social Gaze Engagement <i>Ronny Geva, Ayelet Dital, Jessica Schreiber</i> | 13 | Mother-infant mutual eye gaze supports emotional regulation in infancy <i>Jean Lowe, Kristina Rynes, Crystal Aragon, John Phillips, Arvind Caprihan, Peggy MacLean</i> |
| 7 | Modeling Individual Differences in Language Growth Among Toddlers at High and Low Risk for ASD <i>Ted Hutman, Brigid McCarthy, Mark Otten</i> | 14 | The impact of an Infant and Early Childhood Mental Health training program on developing practitioners' self-efficacy and quality of interactions with young children <i>Shulamit Ritblatt, Sascha Longstreth, Audrey Hokoda</i> |
| | | 15 | Infant parasympathetic and sympathetic response and recovery during the Still Face Paradigm: effects of maternal risk status <i>Jill Suurland, Kristiaan van der Heijden, Hanneke Smaling, Stephan Huijbregts, Stephanie Van Goozen, Hanna Swaab</i> |
| | | 16 | Development of eye-movement control in complex scenes: A longitudinal study <i>Irati Saez de Urabain, Mark Johnson, Tim Smith</i> |

Friday

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| <p>17 Developmental Changes In Scanning Patterns of Emotional Expressions <i>Marisa Biondi, Teresa Wilcox</i></p> | <p>27 Neural substrates of Initiating Joint Attention in Infants <i>Nozomi Naoi, Yoko Hakuno, Yasuyo Minagawa</i></p> |
| <p>18 "Uncanny" Face Discrimination in Infancy <i>Shensheng Wang, Erin Robbins, Philippe Rochat</i></p> | <p>28 Pathways into Joint Attention: Sophisticated Infant Initiations of Interactions with Mothers Lead to Joint Attention Episodes <i>Margaret Ranstead, Elise Masur</i></p> |
| <p>19 Neural Correlates of Face Processing in Infants at Risk for Autism and Infants with Fragile X Syndrome <i>Nicole Zieber, John Richards, Bridgette Tonnsen, Jane Roberts</i></p> | <p>29 Vocabulary size and SES effects in Mexican Spanish infant learners <i>Stephanie DeAnda, Roberto Abreu-Mendoza, Margaret Friend, Natalia Arias-Trejo</i></p> |
| <p>20 Six-months-old Infants Perceive Eye-like Contrast Polarity as Directional Even Without Perceiving a Face <i>Mikołaj Hernik, Gergely Csibra</i></p> | <p>30 Twenty-Four-Month-Olds' Integration of Labels from Different Sources <i>Catharine Echols, Sheila Krogh-Jespersen</i></p> |
| <p>21 Twelve-month-old infants can use robot gaze for object learning: The effect of verbalization <i>Yuko Okumura, Yasuhiro Kanakogi, Takayuki Kanda, Hiroshi Ishiguro, Shoji Itakura</i></p> | <p>31 Size is important: early learning of the meaning of diminutives for smallness <i>Alberto Falcón, Tania Jasso, Elda Alva-Canto</i></p> |
| <p>22 Reflexive "Gaze"-Cueing to a Novel Agent in Infancy and Adulthood <i>Brandon Terrizzi, Jonathan Beier</i></p> | <p>32 Novel Communicative Signals Facilitate Abstract Rule Learning in 7-month-old Infants <i>Brock Ferguson, Casey Lew-Williams</i></p> |
| <p>23 Early social learning: Theory and method in imitation research <i>Angelique Eydam, Victoria Leahy, Elena Cuffari, Erika Nurmsoo</i></p> | <p>33 Rule Learning for Face Sequences in 7-month-old infants <i>Viola Brenna, Hermann Bulf, Eloisa Valenza, Scott Johnson, Chiara Turati</i></p> |
| <p>24 Developmental Changes in Imitation in Mother-Infant Interactions <i>Maria Kalpidou, Maria Markodimitraki, Maria Pateraki</i></p> | <p>34 Does Prior Sleep Facilitate the Encoding of new Information in 6- and 12-Month-Olds? <i>Sabine Seehagen, Carolin Konrad, Lea Lockmann, Silvia Schneider, Jane Herbert</i></p> |
| <p>25 The temporal relations between empathy-related emotions and cry perception in response to infant crying <i>Hung-Chu Lin</i></p> | <p>35 The Longitudinal Influence of Perceived Stress and Depressive Symptoms on Infant Development: Parenting as a Mechanism <i>Lucia Ciciolla, Keith Crnic, Linda Luecken, Nancy Gonzales</i></p> |
| <p>26 Mothers' Own Perceived Experience With an Overprotective Parent Relates to Neural Response to Their Infant's Cry <i>Dorianne Wright, Maria-Alejandra De Araujo Sanchez, Benjamin Nelson, Robin Hertz, Jennifer Ablow, Heidemarie Laurent</i></p> | |

Friday

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| <p>37 Can maternal entity view of intelligence be advantageous in cultivating infant mastery motivation? <i>Huang Su-Ying, Keng-Ling Lay, Yi-Chieh Chen</i></p> | <p>47 Prenatal Programming of Infant Heart Rate: The Role of Maternal Heart Rate and Stress During Pregnancy <i>Michelle Fong, Jeffrey Measelle, Jennifer Ablow</i></p> |
| <p>38 Daylong measurement of patterns of infant leg movement to differentiate healthy from impaired infant development. <i>Beth Smith, Fay Horak</i></p> | <p>48 Maternal Psychological Stress During Pregnancy in Relation to Infant Learning at 4-months <i>Laraine McDonough, Elizabeth Werner, Sophie Foss, Ravital Segal, Catherine Monk</i></p> |
| <p>39 Infant Temperamental Characteristics and Their Association with the Achievement of Motor Milestones in the First Two Years <i>Sabrina Thurman, Daniela Corbetta</i></p> | <p>49 Fetal Effects of a Mother's History of Trauma: Predictions to Infant Physiology <i>Jeffrey Measelle, Jennifer Ablow, Michelle Fong</i></p> |
| <p>40 Role of early visual experience in the development of audiovisual integration: Evidence from cataract-reversal patients <i>Yi-Chuan Chen, Terri Lewis, David Shore, Daphne Maurer</i></p> | <p>50 Comparison of level of helping behavior of family-reared and institutionalized Ukrainian children: link to speech understanding <i>Olga Kochukhova, Iuliia Dyagileva, Vadym Bielalov, Anna Kulenkova, Volodymir Pavlenko</i></p> |
| <p>41 Perceptual consequence of self-produced action in human neonates <i>Coralie Sann, François Jouen, Michèle Molina</i></p> | <p>51 Would you lie for me? Prosocial lying for peers and adults in children between three and five years of age <i>Nina Krüger, Rick Bode</i></p> |
| <p>42 Infants may be Sensitive to Audiovisual Speech Asynchrony <i>Kathleen Shaw, Lauren Powers, Heather Bortfeld</i></p> | <p>52 The relation between the preference for visual-proprioceptive contingency in 6-month-olds and the preference for visual-tactile contingency in 9-month-olds: A longitudinal study <i>Sarah Radukic, Norbert Zmyj</i></p> |
| <p>43 The Effect of Infant Construction on Comprehension of Spatial Prepositions at 2 or 3 years <i>Emily Marcinowski, Julie Campbell, George Michel</i></p> | <p>53 Two-year-olds prefer to learn from the informant who sounds confident <i>Tomoko Matsui, Kyoko Sakamoto, Masato Ohba, Midori Ban, Mutsumi Imai</i></p> |
| <p>44 Using Social Cues to aid Infant Performance in the Piagetian A not B Search Task <i>Kirsty Dunn, Gavin Bremner</i></p> | <p>54 Infants' expectation of fair distribution of resources. Two eye-tracker studies. <i>Isabel Neira-Gutierrez, Federica Savazzi, Laura Franchin, Luca Surian</i></p> |
| <p>45 Associations between AAI adjectives, AAI scales, and SSP scales <i>Kazuko Behrens, Naomi Gribneau Bahm, Carey Burnett</i></p> | <p>55 Infants' generalization of causal and non-causal actions across social groups <i>Lindsey Powell, Adena Schachner, Elizabeth Spelke</i></p> |
| <p>46 Parent-Child Dyadic Synchrony and Toddlers' Self-Regulated Compliance to Mothers and Fathers <i>Eric Lindsey, Yvonne Caldera</i></p> | |

Friday

- 56 An online survey of baby laughter
Caspar Addyman
- 57 Unlearned social predisposition in chicks and their neural correlates as revealed by immediate early gene expression.
Uwe Mayer, Orsola Rosa Salva, Giorgio Vallortigara
- 58 Learning sounds in infancy: pitting statistics vs. semantics
Sophie ter Schure
- 59 "There is a cat and a BALL over there" How intonation interacts with new and given information to guide attention
Jill Thorson, Laura Kertz, James Morgan
- 60 Is toddler temperament influenced by the context of parent-child interactions: Differences between Germany and the US
Cornelia Kirchoff, Maria Gartstein, Sydney Iverson, Sabrina Johnson
- 61 An Examination of Stability/Continuity in the Associations between Infants' Cardiac Vagal Tone and Temperament from 6 to 9 Months
Chris Porter, Sarah Stone
- 62 Infants' Perception of Emotions in Music and Behaviour Attribution
Tik Sze Carrey Siu, Him Cheung
- 63 Developing a Theory of Mind Scale in Infancy: Results From 18- and 24-month-olds
Jessica Yott, Diane Poulin-Dubois
- 64 Adopting a Goal Centered Generalization Strategy in the Context of Tool Choices at 18 Months of age
Fruzsina Elekes, Katalin Oláh, Gabor Brody, Ildiko Kiraly
- 65 Infants' Use of Handles to Control Spoons
Lily Rabinow, Qi Li, Jennifer Maldarelli, Bjorn Kahrs, Brittany Devries, Jeffrey Lockman
- 66 Contrast-Reversal Modulates Infants' Preference for Natural Texture Statistics
Benjamin Balas, Rebecca Woods
- 67 A salient auditory stimulus improves visual contrast sensitivity but does not improve detection speed in 3- and 6-month-olds
Hui Mei Chow, Vivian Ciaramitaro, Karen Dobkins
- 68 Infants' Use of Mutual Exclusivity Assumption During the First Year of Life
Eun Young Kim, Hyun-joo Song
- 69 Different task demands as a filter for the sensitivity to consonants in early word learning: Evidence from German 20-month-olds
Jeannine Schwytay, Barbara Höhle

Friday, 5:00 pm - 5:30 pm

(Event 2-037) ISIS Business Meeting and Awards Presentation
Hall Berlin B+C

ISIS Business Meeting and Awards Presentation

Friday, 5:30 pm - 6:00 pm

(Event 2-038) Young Investigator Address
Hall Berlin B+C

Young Investigator Awardee Presentation

Friday

Friday, 6:00 pm - 7:00 pm

(Event 2-039) Presidential Address
Hall Berlin B+C
Friday, 6:00 pm - 7:00 pm

What Atypical Adults Can Teach Us about Development

Speaker: *Daphne Maurer*

Leila Dafner, Jordy Kaufman, Joanne Tarasuik, Judy Russell, Sandra Marshall, Denny Meyer

8 VERP timing and cortical development: a new latency measure identifies deficits following perinatal brain injury
Oliver Braddick, Morag Andrew, Christine Montague-Johnson, Jin Lee, Anil Kopuri, Peter Sullivan, Jeremy Parr, Janette Atkinson

9 Evidence for less perceptual narrowing in adults with synaesthesia
Laura Gibson, Julian Ghloum, Marcus Watson, Lawrence Chen, Daphne Maurer, Janet Werker

Friday, 7:00 pm - 8:30 pm

(Event 2-040) Poster Session 8

Hall Maritim (Exhibit Hall)
Friday, 7:00 pm - 8:30 pm

- 1 The Relation between Contingency Preference and Imitation of Object-Directed Actions in 7-Month-Old Infants
Sarah Radukic, Norbert Zmyj
- 2 Object Orientation During Hand-to-Mouth Transport in Infants
Ashley Smith, Bjorn Kahrs, Nicholas Fears, Jeffrey Lockman
- 3 Training non-social attention control improves infants' socio-cognitive abilities
Linda Forssman, Samuel Wass, Jukka Leppänen
- 4 Task-evoked pupillary response predicts performance in a visual working memory task in 7-10-months-olds
Sylvia Guillory, Erik Blaser, Zsuzsa Kaldy
- 5 The role of linguistic experience in perceptual narrowing: the case of bilingual infants
Gisela Pi Casaus, Núria Sebastián-Gallés, Luca Bonatti
- 6 The cognate facilitation effect in bilingual and monolingual toddlers
Katie Von Holzen, Christopher Fennell, Nivedita Mani
- 7 The Baby Illusion: Parental Misperception of Youngest Child Size

10 Effect of Self-Produced Locomotion on Infant Spatial Localization
Masako Zanka, Ichiro Uchiyama, Joseph Campos, David Anderson

11 Do object tracking and object maintenance share neural substrates? A NIRS study with 6-month-olds
Eszter Szabó, Ágnes Kovács

12 Sixteen-month-olds recognize the roles of common ground and intentions in communication
Alia Martin, Athena Vouloumanos

13 15-month-old infants spontaneously inform the "New one" for the other
Xianwei Meng, Kazuhide Hashiya

14 Interocular Suppression After Childhood Cataract: A Pilot Study
Lisa Hamm, Shuan Dai, Benjamin Thompson, Joanna Black

15 Cultural Variation in Positive Affect: Frequency of Smiles and Laughter Among US and Turkish Mother-Toddler Dyads
Sibel Bilge Kancal, Feyza Corapci, Rachel Charbonneau, Wolfgang Friedlmeier

16 Transitional Objects in Children of Three Contrasted Cultures
Erin Robbins, Shensheng Wang, Philippe Rochat

Friday

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| 17 | <p>How is maternal mentalization communicated to infants? The relation between maternal mind-mindedness and mirroring behavior <i>Ann Bigelow, Maria Bulmer, Michelle Power, Katlyn Gerrior</i></p> | 25 | <p>Are infants sensitive to face-voice gender congruence? <i>David Kelly, Anne Hillairet de Boisferon, Olivier Pascalis</i></p> |
| 18 | <p>Relation between mothers' mind-mindedness and emotional availability: a preliminary exploration on the associations between concurrent measures of the two constructs <i>Gabrielle Coppola, Raffaella Mancini, Aura Monti, Eliala Salvadori, Mirco Fasolo, Maria Concetta Garito</i></p> | 26 | <p>Individual Differences in Infants' Neural Sensitivity to Emotional Body Expressions: The Role of Temperament and Maternal Empathy <i>Purva Rajhans, Manuela Missana, Kathleen Krol, Tobias Grossmann</i></p> |
| 19 | <p>Distinguishing mother-infant interaction from stranger-infant interaction at 3 and 6 months of age: Do semantics matter? <i>Anne Henning, Daniela Mink, Gisa Aschersleben</i></p> | 27 | <p>Infants Use Grammatical Number Cues to Infer Novel Referents <i>Natalia Arias-Trejo, Lisa Cantrell, Linda Smith, Elda Alva Canto, Roberto Abreu-Mendoza</i></p> |
| 20 | <p>Inhibitory Control in Late Infancy Predicts Emotion Regulation Sophistication in Kindergarten <i>Elizabeth Davis, Parisa Parsafar, Laura Quinones-Camacho, Kristin Buss</i></p> | 28 | <p>Visual Shape Competition During Language-Mediated Attention in 30-Month-old Toddlers <i>Susan Bobb, Nivedita Mani, Falk Huettig</i></p> |
| 21 | <p>6-Month-Old Infants' Reactions to Spiders: a Pupil Dilation Study <i>Maria Johansson, Gustaf Gredeback, Stefanie Hoehl</i></p> | 29 | <p>CHILDREN UNDERSTAND 3RD PERSON: EVIDENCE FROM THE ACQUISITION OF SPANISH AGREEMENT AND OBJECT CLITICS <i>Hannah Forsythe, Cristina Schmitt</i></p> |
| 22 | <p>Eye Tracking Paradigms in Young Children with Fragile X Syndrome and Typical Development: Trajectories in Gaze and Social Attention <i>Ann Mastergeorge, David Benjamin, James McCauley, Chandni Parikh</i></p> | 30 | <p>Infant attention to vocal or instrumental music at 6 months is mediated by sex <i>Fabia Franco, Laura D'Odorico, Iryna Kozar</i></p> |
| 23 | <p>The Influence of a Motion cue on Infants' Object Processing on the Neurophysiological and the Behavioural Level <i>Christine Michel, Caroline Wronski, Sabina Pauen, Moritz Daum, Stefanie Hoehl</i></p> | 31 | <p>Maternal reflective functioning as predictor of maternal and infant behavior during the Still-Face Paradigm <i>Hanneke Smaling, Stephan Huijbregts, Jill Suurland, Kristiaan van der Heijden, Stephanie Van Goozen, Hanna Swaab</i></p> |
| 24 | <p>Disruptive effect of inversion and contrast-reversal on infants' gaze perception <i>Hiroko Ichikawa, Yumiko Otsuka, So Kanazawa, Masami Yamaguchi</i></p> | 32 | <p>The role of parent training in parental sensitivity and cognitive stimulation by scaffolding in early childhood <i>Katharina Wolf, Marlis Abrie-Kuhn, Andreas Eickhorst, Manfred Cierpka, Silke Hertel</i></p> |
| | | 33 | <p>Contribution of mother's childhood trauma on internalizing/ externalizing behaviors in maltreated infants. <i>Lory Zephyr, Aliya Mubarak, Chantal Cyr, Daniel Paquette</i></p> |

Friday

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| <p>34 Lumping and splitting: Correspondence between temperament measures is enhanced by use of discrete observed behaviors and broad questionnaire factors <i>Ariye Krassner, Sam Putnam</i></p> <p>35 Assessing the Feasibility of Pain Assessment in Extremely Low for Gestational Age Infants (ELGA) <i>Bonnie Stevens, Janet Yamada, Sharyn Gibbins, Kimberley Dionne, Amy Skitch</i></p> <p>36 Memory Association in Two-Year-Olds <i>Julien Gross, Kate Goonan, Rachel Barr, Harlene Hayne</i></p> <p>37 Faster habituation to faces but disrupted face memory in 6-month-old infants with later autism symptoms <i>Emily Jones, Rachel Earl, Kaitlin Venema, Annette Estes, Sara Webb</i></p> <p>38 Rock with me: The role of action synchrony in infants' social and non-social choices <i>Bahar Tuncgenc, Emma Cohen, Christine Fawcett</i></p> <p>39 Sticky Mittens Early Motor Intervention Affects Infants' Object Preferences <i>Sarah Wiesen, Amy Needham, Jane Hirtle</i></p> <p>40 Verb Learning and the Perception of Three-Participant Events in Infants and Adults <i>Angela Xiaoxue He, Alexis Wellwood, Jeffrey Lidz, Alexander Williams</i></p> <p>41 Investigating the Development of Infant Temporal Processing Speed via CFF Thresholds with Nutrition as a Moderating Factor <i>Sarah Saint, Janet Frick, Kevin O'Brien, B. Hammond, Jr., Quinn Tracy</i></p> <p>42 Perception of incongruent shapes in cast shadows by infants <i>Kazuki Sato, So Kanazawa, Masami Yamaguchi</i></p> | <p>43 Learning and Generalization of Perceptual Causality <i>Hyungwook Yim, Vladimir Sloutsky</i></p> <p>44 Behavior and development in 24-month-old moderately preterm toddlers <i>Anna van Baar, Marjanneke de Jong, Marjolein Verhoeven</i></p> <p>45 Temperamental and Sensory Characteristics in 5-month-old Preterm and Full-term Infants <i>Julie Vermeirsch, Herbert Roeyers</i></p> <p>46 Object engagement and exploration in very preterm and full term infants at 6 months <i>Mariagrazia Zuccarini, Alessandra Sansavini, Jana M. Iverson, Silvia Savini, Annalisa Guarini, Veronica Zavagli, Tiziana Aureli</i></p> <p>47 Shaping Psychophysiology: Attunement and Divergence of Respiratory Sinus Arrhythmia Within Mother-Infant Dyads <i>Brendan Ostlund, Jeffrey Measelle, Elisabeth Conrard, Jennifer Ablow</i></p> <p>48 Whose clock makes yours tick? The influence of maternal cardiorespiratory physiology on newborns' heart rate variability during the first three months of life. <i>Martine Van Puyvelde, Gerrit Loots, Nathalie Pattyn</i></p> <p>49 Does Bimanual Reaching Relate to Bimanual Manipulation? <i>Iryna Babik, Curtis Mckenney, Julie Campbell, George Michel</i></p> <p>50 The Onset of Unimanual Manipulation Skill in Relation to Reaching Handedness Development <i>Julie Campbell, Iryna Babik, Emily Marcinowski, George Michel</i></p> <p>51 Mirror Self-Recognition Body-Awareness in Toddlers: Relations to Sensorimotor Functioning, Cooperation, and Language <i>Ulrich Mueller, Sarah Ivens, Danae Laut, Naomi Ridley, Yasemin Yumurtaci</i></p> |
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Friday

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| <p>52 Priming Self Versus Others Modulates the Endowment Effect and Willingness to Swap Toys in Preschoolers <i>Sandra Weltzien, Pat Kanngisser, Bruce Hood</i></p> | <p>62 Opacity of other minds and mindreading in Samoa. <i>Andreas Mayer</i></p> |
| <p>53 The relation between infants' preference for contingent feedback of own behavior and their parents' contingent behavior <i>Norbert Zmyj</i></p> | <p>63 Perceptual organization of forms in newborn infants: global vs local processing <i>Cherhazad Hemimou, Arlette Streri</i></p> |
| <p>54 Sibling Cognitive Sensitivity as a Moderator of the Relationship Between Sibship Size and Children's Theory of Mind: A Longitudinal Analysis <i>Heather Prime, Jennifer Jenkins</i></p> | <p>64 The Development of Holistic Processing of Non-Human Animal Stimuli <i>Alyson Hock, Leah Oberst, Ramesh Bhatt</i></p> |
| <p>55 Properties Guiding Infants' Selection of Social Partners <i>Maggie Renno, Kristin Shutts</i></p> | <p>65 Does the onset of walking change infants' cognitive development? Performance in retrieving a hidden object after an invisible displacement <i>Minxuan He, Eric Walle, Joseph Campos</i></p> |
| <p>56 When can toddlers use language to correct a false-belief? Examining factors that contribute to representational updating <i>Valerie San Juan, Patricia Ganea, Vaunam Venkadasalam</i></p> | <p>66 Selective attention and visuospatial working memory in late walkers at toddler age <i>Hanna Mulder, Ora Oudgenoeg-Paz, Josje Verhagen, Ineke van der Ham, Paul Leseman</i></p> |
| <p>57 Matching auditory and visual speech cues: The role of social information during phoneme learning <i>Nicole Altvater-Mackensen, Tobias Grossmann</i></p> | <p>67 Rapid Word-Object Association is Related to Expressive Vocabulary Size in Infants and Toddlers with and without Williams Syndrome <i>Oh-Ryeong Ha, Cara Cashon, Nicholas Holt, Lauren Helton, Carolyn Mervis</i></p> |
| <p>58 Statistical frequency of stop-liquid onset clusters in infant word segmentation <i>Stephanie Archer, Suzanne Curtin</i></p> | <p>68 15-month-olds use object motion as a cross-situational referential cue <i>Carmel Houston-Price</i></p> |
| <p>59 Speech Perception at Birth: Rule Detection and Consonant/Vowel Asymmetry In Newborn Brain Responses Measured with NIRS <i>Camillia Bouchon, Thierry Nazzi, Judit Gervain</i></p> | <p>69 Effects of pitch accent type and contrastiveness on a novel word learning task <i>Jill Thorson, James Morgan</i></p> |
| <p>60 The power and constraints in infants' abstract rule learning <i>Elena Koulaguina, Rushen Shi</i></p> | <p>(Event 2-041) Presidential Reception Hall Maritim Foyer</p> |
| <p>61 I want vs. I ought: Do 3-year-olds understand the conflict between subjective desires and conventional norms <i>Verena Kersken, Hannes Rakoczy</i></p> | <p>Presidential Reception</p> |

Saturday

Saturday, 8:00 am - 9:30 am

(Event 3-001) Invited Symposium
Hall Berlin B
Saturday, 8:00 am - 9:30 am

The integrity of the young nervous system

Chair: *Peter B. Marschik*

- The onset of human behaviour: when, how, and why do we start to move?
Christa Einspieler, Peter Marschik
- Early Motor Development in Autism Spectrum Disorders
Lonnie Zwaigenbaum
- Sensory Attention during Reaching and Grasping in Autism Spectrum Disorder
Lori-Ann Sacrey
- Brain Organization and Developmental Predictors of Language in Infants
Helen Tager-Flusberg

Abstract: This symposium brings together internationally renowned scientists to discuss various aspects of typical and atypical developmental trajectories in the motor and speech-language domain. We will specifically focus on the origin of human behavior, on early neural functions and the detection of risk signs. We aim at (1) bridging the gap between the evolution of early motor activity and the clinical implications of its assessment (Christa Einspieler). The discussion of the General Movement Assessment as potential method to identify infants at risk for maldevelopment is followed by a (2) detailed exploration of motor differences in infants later diagnosed with autism spectrum disorder (Lonnie Zwaigenbaum) and (3) a close view on coordination of motor and attentional components of reaching related behaviors (Lori-Ann Sacrey). (4) The final speaker will elaborate on early risk signs and developmental trajectories in the speech-language and communication domain discussing the neural organization and connectivity in typically developing infants and infants at risk for autism (Helen Tager-Flusberg). It's about the first movement, early development, and early risk signs ... Don't miss it!

(Event 3-002) Paper Symposium
Salon 1
Saturday, 8:00 am - 9:30 am

Learning About Meaning From Speech

Chair: *Cynthia L. Fisher*

- Finding the missing nouns: Korean children exploit discourse continuity to learn verb transitivity
Kyong-sun Jin, Cynthia Fisher, Hyun-joo Song
 - Abstractness or specificity in mapping novel verbs to event types? Evidence from 2-year-olds
Sudha Arunachalam
 - Toddlers encode the relationships between novel nouns from sentences
Erica Wojcik, Jenny Saffran
-

(Event 3-003) Paper Symposium
Salon 12-15
Saturday, 8:00 am - 9:30 am

Predicting Parenting: The Use of Cry Paradigms in the Transition to Parenthood

Chair: *Marije L. Verhage*

- A Cue and a Cry: Prenatal Physiological Response to Attachment Cues Predict Postnatal Parental Behaviors
Jennifer Ablow, Elisabeth Conradt, Jeffrey Measelle
 - The Stability and Predictive Validity of Expectant Mothers' Responses to Cry Stimuli
Esther Leerkes
 - Trauma Relates to Parenting Self-efficacy in a Cry Response Task
Florentina Kunseler, Marije Verhage, Mirjam Oosterman, Carlo Schuengel
-

Saturday

(Event 3-004) Paper Symposium
Salon 16
Saturday, 8:00 am - 9:30 am

UNDERSTANDING SOCIAL MEANING: FROM NON-VERBAL SOCIAL ABILITIES TO INTERNAL STATES LANGUAGE

Chair: Roberta Fadda

- CONCURRENT RELATIONS BETWEEN TODDLERS' SELF-AWARENESS AND THEIR VOCABULARY FOR PSYCHOLOGICAL STATES
Susanne Kristen, Maria Licata, Beate Sodian
- RELATIONSHIP BETWEEN INTERNAL STATE LANGUAGE, INHIBITORY CONTROL AND TEMPERAMENT IN THE SECOND YEAR OF LIFE
Francesca Bellagamba, Fiorenzo Laghi, Antonia Lonigro, Cecilia Serena Pace, Emiddia Longobardi
- HOW BABIES UNDERSTAND PLAYFUL INTENTIONS IN NATURAL CONTEXTS
Tricia Striano
- UNDERSTANDING OTHERS' MIND: A LONGITUDINAL-SEQUENTIAL STUDY IN TYPICALLY DEVELOPING AND ASD TODDLERS
Roberta Fadda, Marinella Parisi, Maria Foscoliano, Giuseppe Doneddu

(Event 3-005) Paper Symposium
Salon 17
Saturday, 8:00 am - 9:30 am

Segmenting words from continuous speech: Examining varied input sources for infants

Chair: Katie Von Holzen

- German infants can segment words from strong infant-directed speech
Melanie Schreiner, Nivedita Mani
- Segmenting speech: Comparing the time course of word recognition in monolingual and bilingual infants
Caroline Junge, Elena Neophytou, Natalie Ebanks, Debbie Mills

- Isolated words, known names and boundary alignment as early word segmentation cues
Mybeth Lahey, Anne Cutler, Elizabeth Johnson
- Segmentation of infant- and adult-directed speech in 12-month-olds: An ERP study
Katie Von Holzen, Deborah Wolff, Nivedita Mani

(Event 3-006) Paper Symposium
Salon 2+3
Saturday, 8:00 am - 9:30 am

Attachment, Interaction, and Neurocognitive Processing of Social Information in Infancy

Chair: Pasco Fearon

- The Effects of the Early Parent-Infant Relationship on Infants' Neural Processing of Emotion
Samantha Taylor-Colls, Pasco Fearon
- Attachment-Related Individual Differences in Attention and Neural Responses to Emotional Expressions at 5 and 7 Months of age
Mikko Peltola, Marian Bakermans-Kranenburg, Marinus van IJzendoorn, Szilvia Biro, Lenneke Alink, Renske Huffmeijer, Linda Forssman, Santeri Yrttiaho, Kaija Puura, Jukka Leppänen
- Differential Lateralization of Faces by Insecurely Attached Infants
Susan Johnson, Ashlei Peterson, Sarah Schoppe-Sullivan, Claire Kamp Dush
- Attachment Security Biases Infants' Information Processing During Observation of Others' Social Interactions
Szilvia Biro, Lenneke Alink, Mikko Peltola, Renske Huffmeijer, Marian Bakermans-Kranenburg, Marinus van IJzendoorn

Saturday

(Event 3-007) Paper Symposium
Salon 4+5
Saturday, 8:00 am - 9:30 am

Integrating theoretical approaches to early action development

Chair: *Vincent M. Reid*

- Infants' actions broaden their minds: Action experience and action perception in early development
Sabine Hunnius
- Processing action as a semantic entity in infancy
Vincent Reid
- Integrating different theoretical perspectives on early action development
Aine Ni Choisdealbha

(Event 3-008) Paper Symposium
Salon 7
Saturday, 8:00 am - 9:30 am

The Development of Handedness: Taking Stock and Looking Ahead

Chair: *Eliza L. Nelson*

- Defining Infant Handedness and Describing its Development
George Michel
- Handedness of Deaf Infants for Object Grasping and for Communicative Pointing
Jacqueline Fagard, Stéphanie Caët
- Development of Manual Asymmetries and Language Acquisition: When Gestures Come into Play
Hélène Cochet, Marianne Jover, Jacques Vauclair
- Brain Reorganization as a Function of Walking Experience in 12-Month-Old Infants: Implications of Manual Laterality
Daniela Corbetta, Denise Friedman, Martha Ann Bell

Saturday, 9:30 am - 11:00 am

(Event 3-009) Poster Session 9

Hall Maritim (Exhibit Hall)
Saturday, 9:30 am - 11:00 am

- 1 Subtle Modality Use Differences in Joint Attention Between Hearing Parent-Deaf Child Dyads and Hearing Parent-Hearing Child Dyads
Nicole Depowski, Molly Nowels, Homer Abaya, John Oghalai, Heather Bortfeld
- 2 Attentional Bias with a Briefly Presented and Backward Masked Cue in 6-Month-Olds
Jed Elison, Angela Fenoglio, J. Scotton, Joseph Piven
- 3 Development of speech perception and spectro-temporal modulation processing
Laurianne Cabrera, Feng-Ming Tsao, Christian Lorenzi, Josiane Bertoncini
- 4 Development in the ability to comprehend degraded speech signals
Rochelle Newman, Giovanna Morini, Monita Chatterjee
- 5 Exploring Measurement Invariance of Temperament Constructs in Infants at High Familial Risk for Autism
Leila Dafner, Emily Jones, Rachael Bedford, Sara Jane Webb, Mark Johnson, Tony Charman
- 6 Early Identification of Toddlers with Autism Spectrum Disorder before Age 2 Years by the Screening Tools for Autism in Two-Year-Olds Taiwan Version (T-STAT)
Chin-Chin Wu, Chung-Hsin Chiang, Yuh-Ming Hou
- 7 Using The Modified Checklist for Autism in Toddler (M-CHAT) to Detect Children with Autism Spectrum Disorder under 2 years old
Ching Yang, Chin Wu

Saturday

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| 8 | Developmental changes in motor cortex activity during infant reaching <i>Ryota Nishiyori, Silvia Bisconti, Beverly Ulrich</i> | 18 | The Relation Between Maternal Positive Affect Expression and Infant Social Competence <i>Brooke Spangler, Elizabeth Kiel</i> |
| 9 | Sleep-state dependent functional network of the cortex in young infants <i>Gentaro Taga, Hama Watanabe</i> | 19 | The Effects of Familiarity, Infant-Directedness, and Modality on Six-Month-Olds' Visual Scanning of Talking Faces <i>Kate Shepard, Melanie Spence, Noah Sasson</i> |
| 10 | Distributional learning of visual information in 10-month-olds <i>Maartje Raijmakers, Rianne van Rooijen, Caroline Junge</i> | 20 | Infants' Attention to Upright and Inverted Dynamic Speakers <i>Joy Wu, Robin Panneton</i> |
| 11 | The Neural Mechanisms of Early Categorization: a Connectionist Model of Infant ERP <i>Gert Westermann, Sabina Pauen, Sebastian Wahl, Stefanie Hoehl</i> | 21 | Investigating perceptual narrowing in monoracial and biracial infants <i>Margaret Moulson, Kathleen Lyons</i> |
| 12 | Examining anticipatory looking in a novel category learning procedure <i>Tracey Miser, Vladimir Sloutsky, Chris Robinson</i> | 22 | Repetition adaptation for individual human faces in 9-month-old infants? - An ERP study <i>Stefanie Peykarjou, Sabina Pauen, Stefanie Hoehl</i> |
| 13 | The effect of communicative context on within category generalization of non-obvious properties. <i>Rubeena Shamsudheen, Gergely Csibra</i> | 23 | The Affects of Agency and Intentionality on Infant Memory <i>Lauren Howard, Amanda Woodward</i> |
| 14 | Frontal EEG asymmetry patterns reveal infants' emerging sensitivity to emotional body expressions <i>Manuela Missana, Tobias Grossmann</i> | 24 | Nine-month-old Infants Can Predict Others' Goal-directed Pointing with Behavioral Cues. <i>Eun Young Kim, Hyun-joo Song</i> |
| 15 | Gamma-band oscillatory activity in the infant brain: what does it tell us about object representation and maintenance? <i>Barbara Pomiechowska, Teodora Gliga</i> | 25 | Preschoolers assign context-specific normative status to irrational actions and do not overimitate at any cost. <i>Stefanie Keupp, Tanya Behne, Alina Kasbohm, Joanna Zachow, Hannes Rakoczy</i> |
| 16 | The power of a baby's smile: Maternal physiological responses to infant emotional expression <i>Sanae Mizugaki, Yukio Maehara, Kazuo Okanoya, Masako Myowa-Yamakoshi</i> | 26 | A forgetting function for declarative memory at 9 month of age <i>Felix-Sebastian Koch, Anett Sundqvist, Anneli Frostell, Mikael Heimann</i> |
| 17 | Examining 14-month-olds' ability to map labels to emotion facial expressions <i>Ashley Ruba, Kristin Johnson, Ryan Johnson, Lasana Harris, Makeba Wilbourn</i> | 27 | Recognising the communicative intent behind others' pointing gestures - a critical test with one-year-old infants <i>Tanya Behne</i> |

Saturday

- 28 Action Experience Helps 11-Month-Old Infants Reason About Others' Preference
Shinchieh Duh, Su-hua Wang
- 29 6-month-olds' Sensitivity to the Intentions of Helpful Behaviors
Young-eun Lee, Hyun-joo Song
- 30 Reaction Time and Accuracy in an Auditory-plus-Visual Online Processing Task Predict Language Scores
Janet Olson, Tina Grieco-Calub, Elise Masur
- 31 Early sensitivity to subcategorical phonetic mispronunciations during online word recognition
Melissa Paquette-Smith, Elizabeth Johnson
- 32 The Role of Experience in Linking Sounds and Concepts in Language Acquisition
Danielle Perszyk, Sandra Waxman
- 33 Orchestrating Infant Attention: How Speakers' Gestures Control Early Word Learning
Nancy Rader, Patricia Zukow-Goldring
- 34 Learning to Solve a Novel Locomotor Problem in Infancy: Does Sleep Play a Role?
Sarah Berger, Anat Scher, Fatmira Curovic
- 35 Infancy Temperament Measures Predict Recognition Memory in 24 months
Meagan O, Martha Ann Bell
- 36 Four-month-old infants' long-term memory for a stressful social event measured by respiratory sinus arrhythmia
Livio Provenzi, Ed Tronick, Renato Borgatti, Francesco Morandi, Gianluigi Reni, Rosario Montiroso
- 37 Sensory regulation in preschoolers evaluated in psychiatric clinic: the role of temperament and attachment.
Aliya Mubarak, Lory Zephyr, Marie Deschênes, Chantal Cyr, Daniel Paquette, Louise Boisjoly, Martin St-André, Mutsuko Émond-Nakamura
- 38 Maternal Emotional State and Infant Behaviors Predict Jealousy Expressions in Infants
Melannie Pineda, Nancy Jones, Krystal Mize
- 39 The influence of tonal and atonal music on a maternal-infant physiological relationship.
Martine Van Puyvelde, Gerrit Loots, Nathalie Pattyn
- 40 Representation of visual proportions in 4-day-old domestic chicks (*Gallus gallus*)
Rosa Rugani, Giorgio Vallortigara, Lucia Regolin
- 41 Exact Understanding of Small Number Language in Toddlers: Evidence from Looking Time Measures
Anna Shusterman, Dominic Gibson, Talia Berkowitz, Jessica Taggart, Samantha Melvin
- 42 Comparison of Two Maternal-infant Dyadic Observational Measures
Madalynn Neu, Zeynep Biringen, Karen Fehringer, Beatrice Meyer-Parsons
- 43 Oxytocin and Maternal Interactive Behaviors in Clinical Versus Community Samples
Simcha Samuel, Barbara Hayton, Ian Gold, Nancy Feeley, Sue Carter, Phyllis Zelkowitz
- 44 The relation between parental mind-mindedness and children's developing theory of mind
Anett Sundqvist, Felix-Sebastian Koch, Emil Holmer, Mikael Heimann

Saturday

- 45 Productional abilities can affect the perception of mispronounced words: An eye-tracking study with Swedish 2-years-olds
Lena Renner, Marie Markelius, Iris-Corinna Schwarz, Ulla Sundberg
- 46 Embodiment in Early Perception? Dorsal and Coronal patterns in English and Dutch
Suzanne van der Feest, Paula Fikkert, Barbara Davis
- 47 You're doing it wrong: Does efficacy of observed behaviour influence innovation?
Emma Flynn, Kayleigh Carr, Rachel Kendal
- 48 Young children help others anonymously
Stéphane Lambert, Robert Hepach, Michael Tomasello
- 49 Early collaborative sharing is intrinsically motivated and undermined by external rewards
Julia Ulber, Katharina Hamann, Michael Tomasello
- 50 A Quantitative Survey of Effect Size Reporting and Interpretation in Infant Research
Laura Mills-Smith, Derek Spangler, Robin Panneton, Matthew Fritz
- 51 A longitudinal study of infant sleep and its effects on socio-cognitive development.
Manuela Pisch, Annette Karmiloff-Smith
- 52 Differential susceptibility and sleep duration: The moderating role of infant 5-HTTLPR polymorphisms on temperament
Andrée-Anne Bouvette-Turcot, Marie-Hélène Pennestri, Annie Bernier, Robert Levitan, Ashley Wazana, Marla Sokolowski, James Kennedy, Meir Steiner, Michael Meaney, Hélène Gaudreau
- 53 How infants approach fair and unfair distributors: Do they prefer and help a fair distributor rather an unfair one?
Federica Savazzi, Isabel Neira-Gutierrez, Laura Franchin, Luca Surian
- 54 12-month-olds learn superficial dynamics of conversation turn-taking
Sylvain Sirois, Christelle Beaulieu, Dominique Mailloux, Marc Mainville, Julie Brisson
- 55 Infants' detection of indirect reciprocity and fairness: evidence from their reactions to punishments and rewards received by third parties
Luca Surian, Marek Meristo
- 56 Little chameleons: The early development of behavioral mimicry and its social sensitivity
Johanna van Schaik, Sabine Hunnius
- 57 Infants' expectations of direct reciprocity for different types of object-mediated interactions
Denis Tatone, Gergely Csibra
- 58 Cross-domain Perception of Pitch in Early Infancy
Ao Chen, René Kager
- 59 Audiovisual information facilitates discrimination of non-native phonemic contrasts in 11-month-old infants
D. Kyle Danielson, Alison Greuel, Padmapriya Kandhadai, Janet Werker
- 60 Can five-month-old infants discriminate languages within a "rhythm class"?
Claire Delle Luche, Laurence White, Jodie McLoughlin, Paul Ratnage, Caroline Floccia
- 61 Vaginal Delivery is Associated with Increased Cortisol Stress Response on the day of Delivery Only
Christina Giudice, Monique Morales, Nicki Aubuchon-Endsley, Stephanie Parade, Margaret Bublitz, Laura Stroud

Saturday

- 62 Understanding of other's knowledge in French and Japanese 16-38 month-olds : a new task of disambiguation in speech acts

Hiroko Norimatsu, Raoul Blin, Kazuhide Hashiya, Christine Sorsana, Hiromi Kobayashi

- 63 Assessing False-Belief Understanding via Implicit and Explicit Measures
Mirjam Reiss, Markus Krüger, Horst Krist

- 64 Visual perception of human touch early in life
Elena Longhi, Margaret Addabbo, Irene Senna, Nadia Bolognini, Paolo Tagliaue, Viola Macchi Cassia, Chiara Turati

- 65 Functional Brain Development of Visual Motion Perception in Infants
Audrey van der Meer, Seth Agyei, Magnus Holth, Ruud Van der Weel

- 66 Factors affecting infants' word-object associations: A meta-analysis of results from the Switch task
Angeline Tsui, Christopher Fennell, Krista Byers-Heinlein, Caitlin Atkinson

- 67 Cross-linguistic differences in maternal supports for word learning: An investigation of extralinguistic cues to word meaning provided by Japanese and American mothers
Matthew Valteau, Michael Frank, Sudha Arunachalam

- 68 Priming with Trios Induces Set-Size Increases in Infants' Object Chunking
Rebecca Rosenberg

- 69 Age-related Changes in Spatial Working Memory during Infancy
Laura Zimmermann, Christina Sharkey, Courtney Nugent, Sydney Simmons, Amanda Grenell, Natalie Brito, Hannah Frank, Rachel Barr

Saturday, 9:45 am - 11:15 am

(Event 3-010) Dedicated Session
Hall Berlin C
Saturday, 9:45 am - 11:15 am

In Honor of Janette Atkinson

Chair: Marko Nardini

- Speaker 1
Janette Atkinson
- Speaker 2
Bruce Hood
- Speaker 3
Terri Lewis
- Speaker 4
Claes von Hofsten

(Event 3-011) Paper Symposium
Salon 1
Saturday, 9:45 am - 11:15 am

Understanding infant cognition through the lens of atypical development: Studies of attention, memory, and numerical cognition

Chair: Jamie Edgin

- Visual attention in infants and toddlers with fragile X: Eye-tracking evidence for "when pathway" disruption
Susan Rivera
- Tracing number deficits back to basic-level processes in infancy in neurodevelopmental syndromes
Annette Karmiloff-Smith
- Understanding the emergence of mature memory systems: Down syndrome as a model of hippocampal dysfunction
Jamie Edgin

(Event 3-012) Paper Symposium
Salon 12-15
Saturday, 9:45 am - 11:15 am

Learning and memory development in cultural context

Chair: Bettina Lamm

Saturday

- Learning and memory in infancy: A cross-culturally view on early infants' measures
Manuel Teubert, Ina Fassbender, Frauke Graf, Arnold Lohaus
 - Learning and memory in 3-year-old children from Germany and Cameroon: results from different memory tasks
Janina Suhrke, Claudia Freitag, Gudrun Schwarzer
 - The development of implicit and explicit memory from infancy to kindergarten age: Findings from a longitudinal approach
Isabel Voehringer, Sonja Poloczek, Monika Knopf
 - The Nso conception of memory: Methodical adaptations on the construct level
Johanna Teiser, Bettina Lamm, Heidi Keller
-

(Event 3-013) Paper Symposium
Salon 16
Saturday, 9:45 am - 11:15 am

Accounting for Which Words Infants and Toddlers Learn

Chair: Daniel Swingley

- Phonological encoding and/or phonological short-term memory in toddlers: what most affects the expressive lexicon?
Stephanie Stokes, Thomas Klee
 - Why are some words learned before others? Predictors of lexical production in infants and older children acquiring English
Jesse Snedeker, Margarita Zeitlin, Jean Crawford
 - What words do children say first? Factoring inflectional morphology into word statistic-based predictions of age of acquisition
Jon Willits, Michael Jones
 - Phonetic, syntactic, and conceptual determinants of word learning in infancy
Daniel Swingley
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(Event 3-014) Paper Symposium
Salon 17
Saturday, 9:45 am - 11:15 am

New vistas on the mechanisms involved in infants' representations of others' knowledge and perspective

Chair: Dora Kampis

- Using oscillatory activity to investigate infant's representations of others' perspectives
Victoria Southgate, Katarina Begus
 - What do infants represent when they compute others' mental states?
Dora Kampis, Eugenio Parise, Gergely Csibra, Ágnes Kovács
 - Infants consider others' beliefs when helping them
Kristine Onishi, You-jung Choi, Yuyan Luo
 - New Findings on Infant Theory of Mind: The Change-of-Identity Paradigm
David Buttelmann, Frances Buttelmann, Susanne Grassmann
-

(Event 3-015) Paper Symposium
Salon 2+3
Saturday, 9:45 am - 11:15 am

Screens versus the world: Fundamentally different properties of gaze allocation?

Chair: Linda B. Smith

- Infants' visual exploration of faces in screen-based and real world tasks
John Franchak
 - To what degree do individual differences observed on screen-based tasks replicate in more naturalistic contexts?
Samuel Wass
 - Watching is not the same as doing
Linda Smith, Chen Yu, Sven Bambach, David Crandall
 - A discussion: Broader implications of the relations between looking and knowing
Kelly Mix
-

Saturday

(Event 3-016) Paper Symposium
Salon 4+5
Saturday, 9:45 am - 11:15 am

Does Helping Feel Right? Emotional and Affective Contributors to Children's Early Helping

Chair: *Stuart I. Hammond*

- Infants' Unwillingness to Help Emotionally Unreliable Individuals
Sabrina Chiarella, Diane Poulin-Dubois
- Representational and motivational underpinnings of instrumental helping in infants and toddlers
Kathryn Hobbs, Elizabeth Spelke, Felix Warneken
- Infant's vicarious distress: Examining the role of negative affect in the production of prosocial behavior
Kristen Dunfield, Valerie Kuhlmeier
- Helping the one you hurt: Toddlers' emotional responses and prosocial behavior after harming another
Jesse Drummond, Stuart Hammond, Whitney Waugh, Emma Satlof-Bedrick, Celia Brownell

(Event 3-017) Paper Symposium
Salon 7
Saturday, 9:45 am - 11:15 am

Specificity vs. Generalization in Early Representations of Words, Objects, and Concepts

Chair: *Erica H. Wojcik*

- The Effect of Visual Context on Word Comprehension in 17-Month-Olds
Erica Wojcik, Casey Lew-Williams, Jenny Saffran
- Developmental trajectories in the number, variation, and temporal availability of early named instances
Caitlin Fausey, Linda Smith
- Do infants generalize across talkers during statistical learning?
Casey Lew-Williams, Katherine Graf Estes
- The Case for Early Abstraction in Children's Conceptual Representations
Andrei Cimpian, Shelbie Sutherland

Saturday, 11:30 am - 12:30 pm

(Event 3-018) Invited Speaker
Hall Berlin B
Saturday, 11:30 am - 12:30 pm

The Developing Human Connectome Project

Chair: *Mark H. Johnson*

Speaker: *David Edwards*



Biography: David Edwards is Professor of Paediatrics and Neonatal Medicine, and Director of the Centre for the Developing Brain at King's College London, and Consultant Neonatologist at Guy's and St Thomas' Hospital NHS Trust. He was educated at Oxford University, Harvard University, London

University and trained with Osmund Reynolds at University College London. In 1992 he was appointed the foundation Weston Professor of Neonatal Medicine at the Royal Postgraduate Medical School, which later joined with Imperial College London. His research group aims to reduce the number of infants suffering brain damage in the perinatal period, and has been engaged in the long-term development of neural rescue therapies. He leads the €15million Developing Human Connectome Project funded by the European Research Council.

(Event 3-019) Invited Speaker
Hall Berlin C
Saturday, 11:30 am - 12:30 pm

Human infants expect kind-referring signals in ostensive communication

Chair: *Victoria Southgate*

Speaker: *Gergely Csibra*

Abstract: In order to interpret referential communication addressed to them, infants have to learn how certain acts, such as deictic gestures and spoken words, refer to objects in their environment. I review evidence that such learning processes are assisted by referential expectations elicited by ostensive signals. In

Saturday

addition, recent studies from our lab suggest that infants can (i) interpret objects highlighted by non-verbal referential signals as standing for their kind, (ii) group a set of objects together by a common label even in the absence of shared features, and (iii) map novel labels to non-taxonomic kinds, such as social roles. Together these findings support the view that accepting reference to abstract kind concepts is not a late achievement, but an expectation that guides the acquisition of communication signals from early on.



Biography: Gergely Csibra is Professor at the Department of Cognitive Science, Central European University (CEU), and, together with György Gergely, leads the Cognitive Development Center at CEU. He obtained his PhD in Budapest,

then worked at the MRC Cognitive Development Unit and at Birkbeck College in London, before returning to Budapest in 2008. His research focuses on various aspects of cognitive development in human infants. Specifically, he studies visual cognition in infants at various levels: from spatial attention and eye-movement control, through object and face perception, to action interpretation, the understanding of communicative signals, the representation of social relations, and mental state attribution. He is also interested in how cognitive processes are implemented in the human brain and how studying neural development could contribute to the understanding of cognitive development in infancy.

Saturday, 2:00 pm - 3:00 pm

(Event 3-020) Keynote Speaker
Hall Berlin B+C
Saturday, 2:00 pm - 3:00 pm

The Evolutionary Origins of Human Cognitive Development: Insights from Research on Chimpanzees

Chair: Daphne Maurer

Keynote Speaker: Tetsuro Matsuzawa

Abstract: I compare cognitive development in humans with that of chimpanzees. Humans and chimpanzees are largely similar at early developmental stages, however, there remain several crucial differences. Chimpanzees lack the social referencing ability and have been very rarely observed to engage in general imitation and active teaching. Young chimpanzees possess exceptional working memory capacities often superior to those of human adults. In contrast, their ability to learn the meaning of symbols is relatively poor. Human infants are typically raised by more than one adult. The human infant is characterized by the stable supine posture of the neonate that enables face-to-face communication via facial expressions, vocal exchange, manual gestures, and object manipulation because both hands are free. The development of social cognition may be integrally linked to this mother-infant relationship. In sum, I present possible evolutionary and ontogenetic explanations for aspects of cognition that are uniquely human.



Biography: Tetsuro Matsuzawa is a Professor at the Primate Research Institute, Kyoto University, Japan. He has studied chimpanzee cognition both in the laboratory and in the wild. The 'Ai Project' began in 1978 with the study of language-like skills and

number concepts in the female chimpanzee, Ai. As the parallel effort, since 1986, he has recorded the behavior of a group of chimpanzees in Bossou-Nimba, Guinea, West Africa. This population of chimpanzees use a pair of mobile stones, as hammer and anvil, to crack open oil-palm nuts. Researchers have documented this unique behavior in detail. His publications include: "Primate origins of human cognition and behavior", 2001; "Cognitive development in chimpanzees", 2006; "Chimpanzees of Bossou and Nimba", 2011. He was awarded the Jane Goodall Award in 2001, and the Person of Cultural Merit in 2013. He is also the current President of the International Primatological Society.

Saturday

Saturday, 3:15 pm - 4:45 pm

(Event 3-021) Paper Session
Salon 1
Saturday, 3:15 pm - 4:45 pm

Novel Methods for Tracking Multiple Influences on Language Learning

Chair: Heather Bortfeld

- From acoustic detail to abstract grammar? How indexical variation constrains infants' grammar generalizations
Kalim Gonzales, LouAnn Gerken, Rebecca Gomez
- Integrating Input Quality and Statistics in Infant Word Learning
Sumarga Suanda, Linda Smith, Chen Yu
- Joint visual attention and gesturing following the onset of infant walking: Possible relations with language development
Eric Walle, Joseph Campos, Peter Reschke
- The Tug of War Between Phonological, Taxonomic and Associative Information During Spoken Word Recognition in Two-year-olds
Janette Chow, Anne Aimola Davies, Laura Brown, Kim Plunkett

(Event 3-022) Paper Symposium
Salon 12-15
Saturday, 3:15 pm - 4:45 pm

Infants' Physiological Reactivity to Socio-emotional Input: The Role of Eye Contact, Emotions and Parental Anxiety

Chair: Mirjana Majdandzic

- Is social anxiety disorder in parents related to higher physiological arousal and arousability in their offspring?
Wieke de Vente, Mirjana Majdandzic, Susan Bögels
- Eye Contact During Live Social Interaction Modulates Infants' Oscillatory Brain Activity

Stefanie Hoehl, Christine Michel, Vincent Reid, Eugenio Parise, Tricia Striano

- Infant temperament and parental depression/anxiety predict infant pupil reactivity to positive and negative facial expressions of emotion
Evin Aktar, Dorothy Mandell, Mirjana Majdandzic, Wieke de Vente, Maartje Raijmakers, Susan Bögels
- Do maternal facial expressions contribute to individual differences in vigilance for fearful faces in infants?
Sabine Seehagen, Lukka Popp, Silvia Schneider

(Event 3-023) Paper Symposium
Salon 16
Saturday, 3:15 pm - 4:45 pm

Culture Clash in Caregiving Practices: When What's Good for Children in One Culture is Deviant in Another

Chair: Lana Karasik

- Infant-directed speech and gesture in three prototypical learning environments
Paul Vogt, Diede Schots, J. Douglas Mastin
- Traditional cradling practices and effects on infant development in Tajikistan
Lana Karasik, Karen Adolph, Catherine Tamis-LeMond, Scott Robinson, Evelyn Abraham, Anna Tavdy, Loye Tucker, Dhandevi Persand
- Mothers, Babies, Language and the Evil Eye: A Research Journey in Senegal
Anne Fernald, Ann Weber, Ricardo Hoffmann Bion

(Event 3-024) Paper Symposium
Salon 17
Saturday, 3:15 pm - 4:45 pm

Finding Breaks in the Action: Exploring Multiple Mechanisms for Infant Event Segmentation

Chair: Amy Pace

Saturday

- Where the Action is: Infants Segment Dynamic Events Using Transitional Probabilities
Aimee Stahl, Alexa Romberg, Katherine Ridge, Sarah Roseberry, Kathy Hirsh-Pasek, Roberta Golinkoff
- Break it Up: Behavioral and ERP Evidence for Infant Attention to Boundaries in Complex Events
Amy Pace, Dani Levine, Victoria Licht, Kimberly Zaw, Roberta Golinkoff, Kathy Hirsh-Pasek, Leslie Carver
- Flexibility and Fluent Event Processing
Dare Baldwin, Robbie Ross

(Event 3-025) Paper Symposium
Salon 2+3
Saturday, 3:15 pm - 4:45 pm

Mind-Mindedness From Infancy to Childhood: Parental and Child Characteristics as Predictors of Children's Social Understanding

Chair: Cristina Colonnese

- Early Mind-Mindedness Predicts Children's Emotion Understanding and Mothers' Discourse About Their Children's Emotions
Elizabeth Meins
- Longitudinal Stability of Maternal Mind-Mindedness in an Interactive Context From Infancy to Toddlerhood and Predictive Relations With Children's Internal State Vocabulary
Susanne Kristen, Maria Licata, Beate Sodian
- Mother-Infant Interaction Quality in Infants' First Year of Life as Specific Predictor of Children's ToM
Maria Licata, Susanne Kristen, Beate Sodian
- The Combined Effect of Parental Mind-Mindedness and Children's Early Social-Understanding Abilities as Predictors of a Theory of Mind
Cristina Colonnese, Moniek Zeegers, Mirjana Majdandzic, Vicky Hondius, Susan Bögels

(Event 3-026) Paper Symposium
Salon 4+5
Saturday, 3:15 pm - 4:45 pm

The Developmental Functions of Mirroring

Chair: Amanda Woodward

- EEG Mu-desynchronization correlates with theory-of-mind reasoning in preschool children: Exploring links between action perception and social understanding.
Lindsay Bowman, Samuel Thorpe, Amanda Brandone, Nathan Fox, Henry Wellman
- Neural mirroring predicts imitative behavior in 7-month-old infants
Courtney Filippi, Erin Cannon, Nathan Fox, Samuel Thorpe, Amanda Woodward
- Mirroring in early childhood and its relation to the development of social competence
Marlene Meyer, Hinke Endedijk, Harold Bekkering, Harold Bekkering, Sabine Hunnius
- Early mirroring predicts later social interest and sensitivity to oxytocin in macaque monkeys
Elizabeth Simpson, Annika Paukner, Valentina Sclafani, Stephen Suomi, Pier Ferrari

(Event 3-027) Paper Symposium
Salon 7
Saturday, 3:15 pm - 4:45 pm

To Be or Not To Be Efficient: Do infants Expect Others' to Act Efficiently, and How Efficient Are Infants in Their Own Actions?

Chair: Janny C. Stapel

- Fourteen-month-old Infants Compute the Efficiency of Joint Actions
Olivier Mascaró, Gergely Csibra
- Infants' Perception of Actions and Situational Constraints: An Eye-tracking Study
Birgit Elsner, Caroline Pfeifer

Saturday

- Natural Infant Walking: Efficient for Learning
Whitney Cole, Scott Robinson, Patrick MacAlpine, Peter Stone, Karen Adolph
- The Relation Between Predictions of Observed Efficient Actions and Own Action Efficiency
Janny Stapel, Marlene Meyer, Sabine Hunnius, Harold Bekkering

Shirlene Wade, Lucas Chang, Clarice Robenalt, Gedeon Deák

8 18-month-olds infer social goals from indirect communicative acts
Cornelia Schulze, Michael Tomasello

9 Mouth Motion, Emerging Interest in Speech, & Audiovisual Redundancy Drive the Developmental Shift in Infant Attention to the Mouth of a Talking Face
Amy Tift, Nicholas Minar, David Lewkowicz

Saturday, 3:30 pm - 5:00 pm

(Event 3-028) Poster Session 10

Hall Maritim (Exhibit Hall)

Saturday, 3:30 pm - 5:00 pm

1 Shifts of attention triggered by biomechanically possible and impossible hand grasping: ERP evidence from 6-month-old infants
Margaret Addabbo, Elena Natale, Ioana Marchis, Nadia Bolognini, Viola Macchi Cassia, Chiara Turati

3 UTATE: The Utrecht Tasks of Attention in Toddlers using Eye tracking - to measure attention capacities in toddlers
Marjanneke de Jong, Marjolein Verhoeven, Ignace Hooge, Anneloes van Baar

4 Norm Violation and Causal Attribution in Childhood
Marina Josephs, Jana Samland, Michael Waldmann, Hannes Rakoczy

5 Mother's psychophysiological characteristics influencing on child's health during his (her) first years of life
Elena Nikolaeva, Vera Merenkova

6 Attention-shift training in preschool children: Impacts on executive function, theory of mind, and fluid intelligence
Sonya Troller-Renfree, Nicole Ruskay, Lindsay Bowman, Nathan Fox

7 Maternal Speech Content During Toy Play at 9 and 12 Months: Longitudinal Stability and Predictions of Infant Language

10 Depressed Parenting in the Context of Infant Cry
Gianluca Esposito, Nanmathi Manian, Paola Venuti, Marc Bornstein

11 The Relationship Between Maternal Stress, Depression and Reflective Functioning in a Preterm Infant Population at 2 Years
Michelle Heron-Delaney, Rebecca Hughes, Margo Pritchard, Fiona Bogossian, David Cartwright, Erin Brown, Justin Kenardy, Louise Newman

12 The neural basis of shared touch in human infancy
Silvia Rigato, Michael Banissy, Aleksandra Romanska, Andrew Bremner

13 SOA-dependent N400 priming effect in 18-month-old monolingual children
Louah Sirri, Pia Rämä

14 The neural correlates of perceptually conscious and unconscious processing of facial expressions in human infants
Sarah Jessen, Tobias Grossmann

15 Duration of exclusive breastfeeding impacts infant brain responses to emotional body expressions: Evidence for a "positivity bias"?
Kathleen Krol, Purva Rajhans, Manuela Missana, Tobias Grossmann

16 The Development of Infant Functional Affective Responding
Peter Reschke, Eric Walle, Linda Camras, Joseph Campos

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| <p>17 The Association Between Parental Pre- and Postnatal Bonding and Child Executive Functioning at 2 Years. <i>Evi de Cock, A. Maas, Charlotte Vreeswijk, Hedwig van Bakel</i></p> | <p>27 Word and Non-Word Repetition in Spanish Children aged 2;6-3;6: A Longitudinal Study <i>Irene Rujas, Marta Casla, Sonia Mariscal</i></p> |
| <p>18 Use of a single-session delay-tolerance A-not-B task for 9-11 month-old infants within a community-based cohort - administration & socio-demographic factors <i>Christos Symeonides, Anne-Louise Ponsonby, Peter Vuillermin, Vicki Anderson</i></p> | <p>28 Effects of Context on Integration of Lexical Tone in Novel Word Learning <i>Leher Singh, Carolyn Quam</i></p> |
| <p>19 Object Substitution in Pretense: Do Executive Function Skills matter? <i>Julia Wissner, Stefanie Peykarjou, Sabina Pauen</i></p> | <p>29 Developmental Change in Children's Sensitivity to Sound Symbolism <i>Christina Tzeng, Lynne Nygaard, Laura Namy</i></p> |
| <p>21 Effects of talker's behavior on infants' attention to a face and object during word learning <i>Yoko Hakuno, Yasuyo Minagawa</i></p> | <p>30 Relationships between Non-word Repetition and Vocabulary in Dutch-speaking Children: A One Way Affair? <i>Josje Verhagen, Elise de Bree, Hanna Mulder, Paul Leseman</i></p> |
| <p>22 It may be a topsy-turvy world for infants, but faces are still upright most of the time <i>Nicole Sugden, Margaret Moulson</i></p> | <p>31 The time course of processing object-sound associations in infants: a pupil dilation study <i>Yi-Chuan Chen, Gert Westermann</i></p> |
| <p>23 The Role of Early Visual Experience in the Development of Sensitivity to Changeable Facial Signals <i>Mark Vida, Daphne Maurer</i></p> | <p>32 Toddlers' Learning from Interactive vs. Non-Interactive Video on Touchscreens <i>Heather Kirkorian, Koeun Choi, Tiffany Pempek, Elizabeth Schroeder</i></p> |
| <p>24 Young Adults' Reactions to Infant Crying: Cognitive Performance and Emotional Reactions <i>Christine Hechler, Roseriet Beijers, Carolina de Weerth</i></p> | <p>33 Using Puzzles to Assess the Effects of Perceptual Cues on Social Learning Strategy in 24-month-olds <i>Laura Zimmermann, Alecia Moser, Kelly Dickerson, Amanda Grenell, Rachel Barr, Peter Gerhardstein</i></p> |
| <p>25 Cognitive empathy and social inhibition predict preschool girls' self-oriented behaviors in response to infant crying <i>Hung-Chu Lin, Valanne MacGyvers, Philip Richard, Stinne Sondergaard, Janna Bourque, Anna LaGrange, Ashley Schaff</i></p> | <p>34 An Ecology of Technology: Infants, Toddlers, and Mobile Screens <i>Michaela Wooldridge, Jennifer Shapka</i></p> |
| <p>26 Multi-family therapy in an inpatient setting benefits both children and parents <i>Angelique Eydam, Inga Plewe, Hubertus Adam</i></p> | <p>35 Ten-month-old infants consider distributors' intentions in evaluating fairness <i>Marek Meristo, Karin Strid</i></p> |
| | <p>36 Is moral judgment influenced by behavior or familiarity? <i>Celine Scola, Thomas Arciszewski</i></p> |

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|----|--|----|---|
| 37 | A Systematic Case Comparison of Eye Contact and Mutual Gaze in Secure vs. Insecure Mother-Infant Dyads in Naturalistic Interactions <i>Susan Woodhouse, Maria Larrimore, Meenal Jog, Taryn Hollander, Kayleigh Billings</i> | 46 | Maternal history of child maltreatment predicts parenting stress: Maternal attachment security as a mechanism <i>Jennifer Khoury, Andrea Gonzalez, Leslie Atkinson</i> |
| 38 | Do experiences with infants modify infant-directed actions? <i>Eriko Yamamoto, Kazuo Hiraki</i> | 47 | Identifying the psychosocial risk factors associated with the use of maternal controlling behaviors during infancy <i>Celia Matte-Gagne, Brenda Harvey, Dale Stack, Lisa Serbin</i> |
| 39 | Cross-cultural Differences in Motor Development: Evidence from a Small-scale Society <i>Hilary Aime, Senay Guner Cebioglu, Tanya Broesch</i> | 48 | Baby steps: comparing effects of visual, motor and visuomotor experience on sensorimotor cortex activation during action observation <i>Carina de Klerk, Mark Johnson, Cecilia Heyes, Victoria Southgate</i> |
| 40 | Exploiting the structure of their environment: Infants' strategic reaches during the transition to early standing <i>Sandra Herrera, Jill Dosso, Jean-Paul Boudreau</i> | 49 | Infants Discriminate During Object-Surface Interactions with Graphic Instruments <i>Jackleen Leed, Bjorn Kahrs, Jeffrey Lockman</i> |
| 41 | Objects as extensions of the hand: A longitudinal study of object banging <i>Bjorn Kahrs, Wendy Jung, Lily Rabinow, Nicholas Fears, Jeffrey Lockman</i> | 50 | Is the emergence of reaching visually-guided? <i>Rebecca Wiener, Sabrina Thurman, Daniela Corbetta, Yu Guan, Joshua Williams</i> |
| 42 | Differences in understanding of iconic gestures in chimpanzees and human children <i>Manuel Bohn, Josep Call, Michael Tomasello</i> | 51 | Infants High in Distress to Novelty Show Differential RSA Responses in the Still-Face Paradigm <i>Kelsey Quigley, Eran Auday, Micah Mammen, Ginger Moore</i> |
| 43 | All Great Ape Species and 2.5-year old Children Demonstrate Appearance-Reality Understanding in a Nonverbal Test <i>Katja Karg, Martin Schmelz, Josep Call, Michael Tomasello</i> | 52 | Changes in social processing and use of social understanding in daily life by toddlers: A longitudinal study from 15 to 25 months <i>Joan Test</i> |
| 44 | Behavioral profiles for spatial impairments in genetic disorders: Insights from genetically altered mice <i>Sang Ah Lee, Glenda Lassi, Giorgio Vallortigara, Valter Tucci</i> | 53 | Information Gathering Strategies - Children's Early Preference of Specific Strategies in a Third Party Paradigm <i>Monika Wörle, Markus Paulus, Iyad Aldaqre, Joelle Proust, Beate Sodian</i> |
| 45 | Development of Parenting Self-efficacy in Parents Facing a Prenatal Diagnosis. <i>Margot Hankel, Mirjam Oosterman, Hanne Meijers-Heijboer, Carlo Schuengel</i> | 54 | Infants expect others to be fair even when there is a cost <i>Hana Yoo, Ji-eun Shin, Hyun-joo Song</i> |

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- 55 Deconstructing sensitivity: Contextual differences in strategies parents use to promote children's self-regulatory development
Lisa Daniels, Phyllis Lee, Maureen Zalewski, Pamela Cole, Keith Crnic
- 56 Early difficulties to learn rules over consonants are linked to the activation of linguistic roles
Juan Toro
- 58 The development of audiovisual speech matching at 4 and 8 months of age: Interactions with vowel production.
Henny Yeung, Thierry Nazzi
- 59 Contextual Cuing in Infancy: An Experimental Study of the Orientation of Visual Attention During Development
Julie Bertels, Estibaliz San Anton, Arnaud Destrebecqz
- 60 Fuzzy memories? Developmental differences in the stability of statistically-extracted representations
Alexis Black, Carla Hudson Kam, Janet Werker
- 61 Is Infant Learning of Non-Adjacent Sequential Relations a Domain-General Ability and When Does It Emerge?
Nicholas Minar, David Lewkowicz
- 62 6-months patterns of matched/mismatched dyadic states in response to the Still-Face perturbation and predictive associations with mothers' emotional availability three months before
Gabrielle Coppola, Annalisa Grazia, Silvia Ponzetti, Tiziana Aureli
- 63 Family Context Moderates the Stability of Infant Temperament Across the First 30 Months of Life
Stephanie Parade, Susan Dickstein, Laura Marie Armstrong, Maryann Lynch, Michaela Hermann, Renee Belair, Ronald Seifer
- 64 Early Appearing Behavior Problems: Differential Contributions of Positive Emotionality for Girls and Boys
Minh Tran, Maria Gartstein
- 65 Looking in the Moment: Using Time-series Analyses to Study Look Stability
Donna Fisher-Thompson
- 66 Infants' and adults' preferences for natural over manmade scenes: Is the nature bias nature or nurture?
Ursula Krentz
- 67 Phonological priming in the developing lexicon: Newly learned words prime familiar words in 24-month-olds
Nivedita Mani, Nicole Altvater-Mackensen
- 68 Facilitating word learning in the presence of background speech
Brianna McMillan, Jenny Saffran
- 69 How Parent Behavior during Infant Object Play Can Support or Disrupt Word Learning
Maureen McQuillan, Chen Yu, Linda Smith, John Bates

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