

# Detailed Oral Program

8:30–10:20

THURSDAY ORAL SESSION 1

8:30

A & B BALLROOM

## **The Origin of Concepts** *(Invited Speaker)*

Susan Carey  
*Harvard University, Cambridge, USA*  
Introduced by: Fei Xu

8:30

CYPRESS

## **New Functions of Infant-Directed Speech: Evidence from Word Learning and Categorization** *(Regular Symposium)*

Chair: Michael Goldstein  
Discussant: Peter Kaplan

### **Learning Words from Infant-Directed Speech**

Katharine Graf Estes  
*University of California, Davis, USA*

### **Developmental Changes in Infants' Use of Infant-directed Speech and Motion when Learning New Words**

Michael Goldstein, Jennifer Schwade  
*Cornell University, Ithaca, USA*

### **The Impact of Faces on Infants' Categorization of Infant-Directed Speech**

Kristin Atchison, Melanie Spence, Emily Touchstone  
*University of Texas at Dallas, Richardson, USA*

8:30

E & F BALLROOM

## **Reading the Language of the Eyes: Neural Basis, Early Development, and Evolutionary Origins of Social Gaze Understanding** *(Regular Symposium)*

Chairs: Jonathan Beier and Tobias Grossmann  
Discussant: Elizabeth Spelke

### **What Is in a Gaze? Neural Mechanisms for Eye Contact Detection in Human Infants**

Tobias Grossmann, Mark Johnson, Gergely Csibra  
*Centre for Brain and Cognitive Development, Birkbeck, University of London, London, UK*

### **Infants' Detection of, and Reasoning about, Mutual Gaze Between Social Partners**

Jonathan Beier, Elizabeth Spelke  
*Department of Psychology, Harvard University, Cambridge, USA*

### **Goats and Dogs Follow the Gaze of their Social Partners: Reasoning about Others' Mental States or Adaptive Social Behaviour?**

Juliane Kaminski<sup>1</sup> Anna Blinkowski<sup>2</sup> Josep Call<sup>1</sup>  
Michael Tomasello<sup>1</sup>

1. *Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany*; 2. *University of Cambridge, Cambridge, UK*

8:30

D BALLROOM

## **The Development of Memory Flexibility: Contributions of Brain Development and Experience** *(Regular Symposium)*

Chair: Jenny Richmond  
Discussant: Nora Newcombe

### **Age-Related Changes in Recognition Memory Across Contexts**

Jane Herbert, Emily Jones  
*University of Sheffield, Sheffield, UK*

### **Relational Memory During Infancy: Evidence from Eye Tracking**

Jenny Richmond, Charles Nelson  
*Children's Hospital Boston, Harvard Medical School, Boston, USA*

### **Infants' Prior Experience Influences Representational Flexibility**

Julien Gross, Harlene Hayne  
*University of Otago, Dunedin, New Zealand*

8:30

SEYMOUR

## **Vowels and Consonants in Early Words: Difference or No Difference?** *(Regular Symposium)*

Chairs: Nivedita Mani and Thierry Nazzi  
Discussant: Christopher Fennell

### **12-Month-Olds are Sensitive to Vowel and Consonant Mispronunciations of Familiar Words**

Nivedita Mani, Kim Plunkett  
*University of Oxford, Oxford, UK*

### **A Crosslinguistic Study of Vowel Duration in 21-Month-Olds' Early Lexical Representations**

Suzanne Van Der Feest, Daniel Swingley  
*University of Pennsylvania, Philadelphia, USA*

### **Consonantal and Vocalic Specificity in Early Word Learning: Comparative French/English Data**

Thierry Nazzi<sup>1</sup> Mélanie Havy<sup>1</sup> Caroline Floccia<sup>2</sup> Joseph Butler<sup>2</sup>

1. *LPP, CNRS-Université Paris Descartes, Paris, France*; 2. *University of Plymouth, Plymouth, UK*

8:30

C BALLROOM

## **Fear Development in Early Childhood: Methodological Considerations and Factors that Explain Stability and Growth** *(Regular Symposium)*

Chair: Maria Gartstein  
Discussant: Samuel Putnam

### **Developmental Trajectories of Fear in the First Year of Life: A Latent Growth Examination**

David Bridgett, Maria Gartstein, Erin Iddins, Christopher Robertson, Kristin Ramsay, Danielle Wald,

Anna Rittmueller, Lindsey Yake, Haley Kendall,  
Jessica VanVleet  
*Washington State University, Pullman, USA*

**Factors Accounting for the Stability of Shyness  
and Boldness from 24 months to Kindergarten**

Kristin Buss<sup>1</sup> Elizabeth Kiel<sup>2</sup>

1. *The Pennsylvania State University, University Park, USA;*  
2. *University of Missouri-Columbia, Columbia, USA*

**Studying Children's Social Fear from 12 to 48  
Months through Laboratory and Questionnaires:  
Continuity and Convergence of Measures**

Carmen González, Jose Carranza, Ester Ato  
*University of Murcia, Murcia, Spain*

8:30

MACKENZIE

**Manual Action Selection During  
Infancy** (Regular Symposium)

Chair: Daniela Corbetta

Discussant: Neil Berthier

**Selectivity of Manual Action During  
Exploration of Objects and Surfaces**

Jeffrey Lockman

*Tulane University, Dept. of Psychology, New Orleans, USA*

**Tool Use in the 1st Year of Life: Infants Select Appropriate  
Tool Use Actions Based on Tool and Goal Object Properties**

Jessica Sommerville, Erika Feldman

*University of Washington, Dept. of Psychology, Seattle, USA*

**Selecting Appropriate Movements to Reach  
Along the Sides of an Obstacle**

Daniela Corbetta, Joshua Williams, Benji Craddock

*The University of Tennessee, Dept. of Psychology, Knoxville,  
USA*

10:30–12:20

THURSDAY ORAL SESSION 2

10:30

A & B BALLROOM

**Social-Cognitive Development in Infancy:  
The New Look** (Invited Symposium)

Chair: Carol Dweck

**Internal Working Models of Attachment in  
Infancy: New Methods, New Evidence**

Susan Johnson

*Stanford University, Stanford, USA*

**Roots of Social Cognition: Self-other  
Mapping and the 'Like Me' Hypothesis**

Andrew Meltzoff

*Institute for Learning & Brain Sciences, University of Wash-  
ington, Seattle, USA*

**Cooperation and Communication in the Second Year of Life**

Michael Tomasello

*Max Planck Institute for Evolutionary Anthropology,*

*Leipzig, Germany*

10:30

D BALLROOM

**How Experience Works on Development through  
Genetic and Epigenetic Mechanisms** (Workshop)

Chair: Rachel Keen

**Do We Need to Rethink Our Theories of  
Development in Light of Epigenetics?**

Robert Lickliter

*Florida International University, Miami, USA*

**Gene by Environment Interactions on Behaviour: A Primer**

Marla Sokolowski

*Department of Biology, University of Toronto, Mississauga,  
Canada*

**Maternal Care, the Epigenome and Phenotypic  
Differences in Behaviour: A Workshop on the  
Role of Epigenetic Processes in Early Life**

Moshe Szyf

*Department of Pharmacology and Therapeutics, McGill  
University, Montréal, Canada*

10:30

E & F BALLROOM

**Neuro-Computational Approaches to Early  
Lexical Acquisition** (Regular Symposium)

Chair: Julien Mayor

Discussant: Jeff Elman

**A Neuro-Computational Account of Taxonomic Responding**

Julien Mayor, Kim Plunkett

*University of Oxford, Oxford, UK*

**Dynamic Self-Organization and Lexical Acquisition**

Ping Li

*University of Richmond, Richmond, USA*

**Modeling the Transition from Perceptual  
to Conceptual Categorization**

Gert Westermann<sup>1</sup> Denis Mareschal<sup>2</sup>

1. *Oxford Brookes University, Oxford, UK;*

2. *Birkbeck College, London, UK*

10:30

MACKENZIE

**Joint Attention: Adaptation or  
Acquired Skill?** (Regular Symposium)

Chair: David Leavens

Discussant: Vasu Reddy, Jeremy Carpendale

**How Does Joint Attention Develop in Young Chimpanzees?**

Kim Bard<sup>1</sup> Judit Barta<sup>2</sup>

1. *Centre for the Study of Emotion, Portsmouth, UK;*

2. *University of Portsmouth, Portsmouth, UK*

**Ape Performatives: "Declaratives"  
and Other Imperative Acts**

David Leavens<sup>1</sup> William Hopkins<sup>2</sup> Jared Tagliatalata<sup>2</sup>

Jamie Russell<sup>2</sup>

1. *Department of Psychology, Falmer, UK;* 2. *Yerkes National*

*Primate Research Center, Atlanta, USA*

Thursday, March 27  
10:30, 13:30 Orals

**Joint Attention as a Distributed Cognitive Process**

Timothy Racine, Noah Susswein  
*Simon Fraser University, Burnaby, Canada*

10:30

SEYMOUR

**Understanding Other's Actions in Infancy: Goals and their Meaning** (Regular Symposium)

Chair: Gustaf Gredebäck  
Discussant: Amanda Woodward

**The Development of Functional Object Knowledge in Young Infants: A Study on Infants' Goal Anticipations**

Sabine Hunnius, Harold Bekkering  
*Radboud University, Nijmegen, The Netherlands*

**Goal Prediction during Observation of Rational and Irrational Social Events**

Gustaf Gredebäck, Annika Melinder  
*University of Oslo, Oslo, Norway*

**Neural Correlates of Violation of Expectation for Goals in Adulthood and Infancy**

Vincent Reid  
*Durham University, Durham, UK*

10:30

CYPRESS

**A Cross-Linguistic Look at Infant Speech Segmentation** (Regular Symposium)

Chair: Jessica Hay

**English Infants Learn Italian: A Statistical Word Segmentation Study**

Bruna Pelucchi<sup>1,2</sup> Jessica Hay<sup>2</sup> Jenny Saffran<sup>2</sup>  
1. *University of Ferrara, Ferrara, Italy*; 2. *University of Wisconsin - Madison, Madison, USA*

**Speech Segmentation in French-Learning Infants: Language-Specific and Dialect-Specific Patterns**

Linda Polka<sup>1</sup> Jennifer Proulx<sup>1</sup> Karima Mersad<sup>2</sup> Galina Iakimova<sup>2</sup> Megha Sundara<sup>3</sup> Thierry Nazzi<sup>2</sup>  
1. *McGill University, Montréal, Canada*; 2. *CNRS - Université Paris Descartes, Paris, France*; 3. *Institute for Learning and Brain Sciences, Seattle, USA*

**Dutch Infants' Segmentation of Diminutive Word Forms: An Exploration of Morpheme Stripping and Lexical Embedding**

Elizabeth Johnson  
*University of Toronto, Toronto, Canada*

10:30

C BALLROOM

**Methods and Measures Used in Assessing Infant Language Development** (Regular Symposium)

Chair: Nivedita Mani  
Discussant: Kathy Hirsh-Pasek

**Differences Between Latency and Looking Time Measures in Infant Studies**

Nivedita Mani, Kim Plunkett  
*University of Oxford, Oxford, UK*

**Looking-While-Listening: Using Real-Time Measures of Speech Processing to Monitor Comprehension by Very Young Language Learners**

Anne Fernald, Virginia Marchman, Ana Luz Portillo  
*Stanford University, Stanford, USA*

**Pros and Cons of the "Switch Design" in Lexical Acquisition and Other Infant Learning Tasks**

Leslie Cohen  
*University of Texas at Austin, Austin, USA*

13:30-15:20

THURSDAY ORAL SESSION 3

13:30

A & B BALLROOM

**Growing Up Bilingual: From Crib to College** (Invited Speaker)

Núria Sebastián-Gallés  
*Grup de Recerca Neurociència Cognitiva, Universitat de Barcelona; Parc Científic de Barcelona, Esplugues, Spain*  
Introduced by: Pat Kuhl

13:30

CYPRESS

**The Traumatized Brain** (Invited Symposium)

Chair: Ronald Barr

**Abusive Head Trauma in Infants: A Unique Injury in a Vulnerable Population**

Lori Frasier

**Factors Influencing Neocortical Development in the Normal and Injured Brain**

Bryan Kolb  
*University of Lethbridge, Lethbridge, Canada*

**Abnormal Brain Development in Newborns with Congenital Heart Disease: Insights from MRI**

Steven Miller  
*University of British Columbia, Vancouver, Canada*

13:30

D BALLROOM

**Natural Born Pedagogy?: The Role of Mind-Reading in Cultural Knowledge Transmission** (Regular Symposium)

Chairs: Brenda Phillips and Deborah Kelemen  
Discussant: Michael Tomasello

**Young Children Can Categorize Novel Tools by Eavesdropping on Others' Intentional Acts**

Brenda Phillips<sup>1</sup> Deborah Kelemen<sup>1</sup> Rebecca Seston<sup>1</sup> Krista Casler<sup>2</sup>  
1. *Boston University, Boston, USA*; 2. *Franklin & Marshall College, Lancaster, USA*

**Sensitivity to Communicative Intent Tells Young Children What to Imitate**

Victoria Southgate<sup>1</sup> Coralie Chevallier<sup>2</sup> Gergely Csibra<sup>1</sup>  
1. *Birbeck, University of London, London, UK*;  
2. *Université de Lyon, Lyon, France*

**The Functional Role of Ostensive  
Communicative and Referential Cues in Social  
Learning: A Comparative Perspective**

Krisztina Kupán<sup>1,2</sup> Jozsef Topal<sup>1,2</sup> György Gergely<sup>1</sup>  
1. Hungarian Academy of Sciences, Budapest, Hungary;  
2. Eötvös University, Budapest, Hungary

13:30 C BALLROOM

**Rule Learning in Infants With Non-  
Linguistic Stimuli** (Regular Symposium)

Chair: Yael Gertner  
Discussant: Gary Marcus

**Tube, Container, Container: Rule  
Learning in 7-Month-Old Infants**

Yael Gertner<sup>1</sup> Renee Baillargeon<sup>1</sup> Gary Marcus<sup>2</sup>  
Cynthia Fisher<sup>1</sup> Scott Johnson<sup>3</sup>  
1. University of Illinois Urbana, Champaign, USA; 2. New  
York University, New York, USA; 3. UCLA, Los Angeles, USA

**Redundant Cross-Modal Relations  
Facilitate Visual Rule Learning**

Erik Thiessen  
Carnegie Mellon University, Pittsburgh, USA

**Domain-Dependent Refinement of Attention to Relations**

Colin Dawson, Louann Gerken  
University of Arizona, Tucson, USA

13:30 E & F BALLROOM

**Representations in Action: How Looking and  
Reaching Guide the Formation of Item and  
Category Representations** (Regular Symposium)

Chairs: Donna Fisher-Thompson and Gregor Schöner  
Discussant: Denis Mareschal

**Stickiness or Space: Evidence from a Dynamic Field  
Model of Infant Looking and Habituation**

Joshua Goldberg<sup>1</sup> Donna Fisher-Thompson<sup>2</sup>  
1. Indiana University, Bloomington, Indianapolis, USA;  
2. Niagara University, Niagara University, USA

**Task Specific Categorization in an  
Autonomous Dynamic System**

Sammy Perone<sup>1</sup> John Spencer<sup>2</sup> Lisa Oakes<sup>3</sup>  
1. University of Iowa, North Liberty, USA; 2. University of  
Iowa, Iowa City, USA; 3. University of California at Davis,  
Davis, USA

**The Dynamics of Infant Motor Habituation**

Gregor Schöner<sup>1</sup> Jing (Connie) Feng<sup>2</sup>  
1. Institut für Neuroinformatik, Ruhr-Universität Bochum,  
Bochum, Germany; 2. Indiana University, Bloomington,  
USA

13:30 MACKENZIE

**Using the Still-Face to Assess Bio-behavioral  
Indicators of Emotion Dysregulation in High and  
Low Risk Mother/Infant Dyads** (Regular Symposium)

Chair: Jennifer Ablow  
Discussant: Cynthia Stifter

**Infant Regulation in the Still-Face Situation at 5 months:  
Concurrent Predictors and Longitudinal Outcomes**

Nanmathi Manian, Marc Bornstein, O. Maurice Haynes  
National Institutes of Child Health and Human Develop-  
ment (NICHD), Bethesda, USA

**Mother-Infant Vagal Regulation in the Still-Face  
Paradigm is Moderated by Maternal Sensitivity**

Ginger Moore<sup>1</sup> Ashley Hill<sup>2</sup> Cathi Propper<sup>2</sup> Susan  
Calkins<sup>3</sup> W. Roger Mills-Koonce<sup>2</sup> Martha Cox<sup>2</sup>  
1. The Pennsylvania State University, University Park, USA;  
2. University of North Carolina at Chapel Hill, Chapel Hill,  
USA; 3. University of North Carolina- Greensboro, Greens-  
boro, USA

**Bio-Behavioral Markers of Emotion Dysregulation  
in At-Risk Mother-Infant Dyads**

Elisabeth Conradt, Jennifer Ablow, Jeffrey Measelle  
University of Oregon, Eugene, USA

15:30-17:20 THURSDAY ORAL SESSION 4

15:30 E & F BALLROOM

**Maternal Care can Program Gene Expression  
in the Offspring** (Invited Speaker)

Michael Meaney  
McGill University, Montréal, Canada  
Introduced by: Janet Werker

15:30 A & B BALLROOM

**Intentional Understanding in  
Infancy: A Debate** (Debate)

Moderator: Philippe Rochat  
Chris Moore and Gergely Gyorgy

15:30 CYPRESS

**The Emergence of Phonological Contrast from  
Lexical and Perceptual Processes** (Regular Symposium)

Chair: Bob McMurray  
Discussant: Katharine Graf Estes

**Phonetic Variability and Early Word Learning**

Gwyneth Rost, Bob McMurray  
University of Iowa, Iowa City, USA

**Does Coarticulatory Information Aid Use  
of Phonetic Detail at 14 Months?**

Christopher Fennell  
University of Ottawa, Ottawa, Canada

Thursday, March 27  
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**Evidence that the Variability in Lexical Frames Affects Children's Use of Phonemic Contrasts**

Erik Thiessen  
*Carnegie Mellon University, Pittsburgh, USA*

15:30

SEYMOUR

**Does She Know or Doesn't She? Reasoning about Others' Knowledge States** (Regular Symposium)

Chairs: Kristine Onishi and Yuyan Luo  
Discussant: Lou Moses

**Can You See What I See? Perspective-Taking in a Violation-of-Expectation Task at 16 Months**

Yuyan Luo<sup>1</sup> Whitney Beck<sup>2</sup>  
1. *University of Missouri, Dept. of Psychological Sciences, Columbia, USA*; 2. *University of Missouri, Columbia, USA*

**What You Say Is (Not Quite) What You See: Perspective Taking in 14-Month-Old Infants**

Andréanne Allard, Kristine Onishi  
*McGill University, Montréal, Canada*

**Early Appreciation of Nonverbal Cues to Epistemic States**

Susan Birch  
*University of British Columbia, Vancouver, Canada*

15:30

C BALLROOM

**Infants Learn Statistics, So Now What? What Infants can do with their Sensitivity to Probabilistic Information** (Regular Symposium)

Chair: Natasha Kirkham  
Discussant: David Sobel

**The Past is the Best Predictor of the Future: Infants' Use of Patterns to Predict Upcoming Events**

Natasha Kirkham<sup>1</sup> Hanna Muenke<sup>2</sup> Michael Ramscar<sup>2</sup>  
1. *Centre for Brain and Cognitive Development, Birkbeck College, University of London, London, UK*; 2. *Stanford University, Stanford, USA*

**Infant Deduction: How Babies Go from A to B, and then to C**

David Rakison  
*CMU, Pittsburgh, USA*

**Toddlers' Social Learning from Statistical Evidence**

Tamar Kushnir<sup>1</sup> Jennifer LaBounty<sup>1</sup> Fei Xu<sup>2</sup> Henry Wellman<sup>1</sup>  
1. *University of Michigan, Ann Arbor, USA*; 2. *University of British Columbia, Vancouver, Canada*

15:30

MACKENZIE

**Smiling and Laughter in Infants in Comparative and Developmental Perspective** (Regular Symposium)

Chair: Kim Bard  
Discussant: Harriet Oster

**Development of Smiles and Laughter in Young Infants**

Kiyobumi Kawakami<sup>1</sup> Kiyoko Takai-Kawakami<sup>2</sup> Fumito Kawakami<sup>3</sup> Masaki Tomonaga<sup>4</sup>  
1. *University of the Sacred Heart, Shibuya-ku, Japan*; 2. *Japan Women's University, Mejirodai, Japan*; 3. *Tokyo Institute of Technology, Ookayama, Japan*; 4. *Kyoto University, Kanrin, Inuyama, Japan*

**Rapid Open-Mouth Face Mimicry in Orangutan Social Play**

Marina Davila Ross<sup>1</sup> Susanne Menzler<sup>2</sup> Elke Zimmermann<sup>3</sup>  
1. *Psychology Department/University of Portsmouth, Portsmouth, UK*; 2. *Institute of Biometry/University of Veterinary Medicine Hannover, Hannover, Germany*; 3. *Institute of Zoology/University of Veterinary Medicine Hannover, Hannover, Germany*

**The Form and Context of Smiles in Infancy across Cultures and Primate Species**

Kirsty Ross, Kim Bard, Kate Thorsteinsson  
*University of Portsmouth, Portsmouth, UK*

15:30

D BALLROOM

**Atypical Face Processing in Infants at Risk for Autism Spectrum Disorders (ASD)** (Regular Symposium)

Chair: Karen Dobkins  
Discussant: Daphne Maurer

**Atypical Face Processing in Infants at Risk for Autism Spectrum Disorders (ASD): Origins in Low-Level Visual Processing?**

Karen Dobkins, Leslie Carver, Joseph McCleery, Natacha Akshoomoff  
*University of California San Diego, La Jolla, USA*

**Electrophysiological Assessment of the Processing of Familiar and Unfamiliar Stimuli in Infants at Risk for Autism Spectrum Disorders or Language Impairment**

Charles Nelson<sup>1</sup> Karen Dobkins<sup>2</sup> Helen Tager-Flusberg<sup>1</sup> Vanessa Vogel-Farley<sup>1</sup>  
1. *Harvard University, Boston, USA*; 2. *University of California, San Diego, La Jolla, USA*

**Spatial Distribution of Attention During Face Scanning: Typical Developmental Trajectories and Autism Specific Deviations**

Kasia Chawarska<sup>1</sup> Frederick Shic<sup>2</sup> Ami Klin<sup>1</sup> Frederick Volkmar<sup>1</sup>  
1. *Yale University School of Medicine, Child Study Center, New Haven, USA*; 2. *Yale University Department of Computer Science, New Haven, USA*

07:30–8:20

FRIDAY BREAKFAST ROUND TABLES

7:30 OAK 1

**Which Physiological Measures should be Used in Emotion Regulation Research?**

Tracy Dennis<sup>1</sup> Kristin Buss<sup>2</sup>  
1. Hunter College, The City University of New York, New York, USA; 2. The Pennsylvania State University, State College, USA

7:30 OAK 2

**Communicating Research through Regulations**

Judith Colbert  
Consultant, Guelph, Canada

8:30–10:20

FRIDAY ORAL SESSION 1

8:30 D BALLROOM

**Early Child Development from the Perspective of Population Health** (Invited Speaker)

Clyde Hertzman  
University of British Columbia, Vancouver, Canada  
Introduced by: Ron Barr

8:30 A & B BALLROOM

**From Statistical Regularities to Conceptual Inference** (Invited Symposium)

Chair: Elizabeth Spelke  
Discussant: Elizabeth Spelke

**At the Origin of Rationality: How Intuitions of Probabilities Shape Predictions about the Future**

Luca Bonatti  
Cognitive Neuroscience Sector, Trieste, Italy

**Going Beyond the Evidence: Children’s Ability to Draw Rich Inferences from Sparse Data**

Laura Schulz  
Department of Brain and Cognitive Sciences, MIT, Cambridge, USA

**Are We Rational Learners? Insights from Human Infants**

Fei Xu  
University of British Columbia, Vancouver, Canada

8:30 E & F BALLROOM

**Infants’ Use of Shared Experience in Communication** (Regular Symposium)

Chair: Kristin Liebal  
Discussant: Michael Tomasello

**Infants’ Use of Shared Language During Ambiguous Communication**

Patricia Ganea<sup>1</sup> Megan Saylor<sup>2</sup>  
1. Boston University, Boston, USA; 2. Vanderbilt University, Nashville, USA

**14-Month-Olds Know What Others Know Only in Joint Attention**

Henrike Moll  
Institute for Learning and Brain Sciences, University of Washington, Seattle, USA

**The Role of Shared Experience in Infants’ Nonverbal Communication**

Kristin Liebal  
Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany

8:30 C BALLROOM

**How Infants Acquire Grammatical Categories: the Role of Distributional, Prosodic and Phonotactic Information in the Acquisition of Noun and Verb Categories** (Regular Symposium)

Chairs: Melanie Soderstrom and Erin Conwell  
Discussant: James Morgan

**Distributional Analysis as a Method for Categorizing Words in Infancy**

Toben Mintz  
University of Southern California, Los Angeles, USA

**Phonological Cues to the Syntactic Categorization of Words: Evidence from German-Learning 16-Month-Olds**

Barbara Höhle, Susan Ott  
University of Potsdam, Potsdam, Germany

**Perceptual Cues and Syntactic Categorization of Nouns and Verbs**

Rushen Shi, Andréane Melançon, Annick Moisan  
Université du Québec à Montréal, Montréal, Canada

8:30 SEYMOUR

**How Infants Use Color in Understanding the Physical World** (Regular Symposium)

Chair: Anna Franklin  
Discussant: Marc Bornstein

**Infants’ Use of Color in Object Processing**

Teresa Wilcox<sup>1</sup> Rebecca Woods<sup>2</sup>  
1. Texas A&M University, Texas, USA; 2. Steven F. Austin State University, Austin, USA

**What is the “Same Amount of Change” for Infants at Different Ages?**

Zsuzsa Kaldy, Erik Blaser, Aaron Crug  
University of Massachusetts, Boston, USA

**Neural Markers and Lateralization of Infant Categorization: The Domain of Color**

Anna Franklin<sup>1</sup> Alexandra Clifford<sup>1</sup> Amanda Holmes<sup>2</sup>  
Gilda Drivonikou<sup>1</sup> Ian Davies<sup>1</sup>  
1. University of Surrey, Guildford, UK; 2. Roehampton University, London, UK

Friday, March 28  
07:30, 08:30 Orals

Friday, March 28  
08:30, 10:30 Orals

8:30 MACKENZIE

**Memory and Attention in Infancy: Exploring Pathways to Language and Cognition** (Regular Symposium)

Chair: Mikael Heimann  
Discussant: Jane Herbert

**The Relation of Joint Attention and Early Language Skills: Differential Methods Yield Differential Results**  
Lars Smith

National Network for Infant Mental Health, Oslo, Norway

**Social Routes to Language: Growth Curve Modeling of Vocabulary Growth Based on Preverbal Gaze Following and Pointing**  
Rechele Brooks, Andrew N Meltzoff  
University of Washington, Seattle, USA

**From Deferred Imitation to Language and Cognition: Observations from a Longitudinal Swedish Study**  
Karin Strid, Tomas Tjus  
Göteborg University, Gothenburg, Sweden

8:30 CYPRESS

**Biophilia and Biophobia: Babies' Responses to Living Things** (Regular Symposium)

Chair: Megan Pickard  
Discussant: Susan Johnson

**Lions and Tigers, Great! Snakes, Oh My! Babies' Responses to Different Kinds of Animals**  
Vanessa LoBue, Megan Pickard, Judy DeLoache  
University of Virginia, Charlottesville, USA

**Infants' Intermodal Perception of Canine (Canis familiaris) Faces and Vocalizations**  
Ross Flom<sup>1</sup> Dan Hyde<sup>2</sup> Heather Whipple<sup>3</sup>  
1. Brigham Young University, Provo, USA; 2. Harvard University, Cambridge, USA; 3. University of Minnesota, Minneapolis, USA

**Babies' Responses to Potentially Threatening People**  
Karen Wynn  
Yale University, New Haven, USA

10:30-12:20 FRIDAY ORAL SESSION 2

10:30 A & B BALLROOM

**The Infant as Statistical Learner: Implications for Cognitive and Language Development** (Invited Speaker)  
Richard Aslin  
University of Rochester, Rochester, USA  
Introduced by: Jenny Saffran

10:30 D BALLROOM

**Autism in Infants and Toddlers: Asian Perspectives** (Invited Symposium)  
Chair: Yoichi Sakakihara

**Early Detection of Autism Spectrum Disorder (ASD) in Japan: From 18 Months to 36 Months**  
Yoko Kamio

Department of Child and Adolescent Mental Health, National Institute of Mental Health, Tokyo, Japan

**Early Development of Children with Pervasive Developmental Disorders**  
Sadaaki Shirataki

Graduate School of Clinical Psychology, Mukogawa Women's University, Ikebiraki-Cho, Japan

**Checklist for Autism in Toddlers (CHAT-23) and a Pilot Study on Early Intervention for Autism in Chinese Children**  
Virginia Wong  
Department of Paediatrics & Adolescent Medicine, The University of Hong Kong, Hong Kong, China

**Toward Constructing Converging Assessments for Early Diagnosis of Young ASD Children**  
Zhou Zhou  
East China Normal University, Shanghai, China

10:30 E & F BALLROOM

**Infants' Use of Communicative Cues to Interpret Others' Actions** (Regular Symposium)

Chair: Elena Hoicka  
Discussant: Alan Leslie

**Fifteen-Month-Old Infants Match Humorous Cues to Humorous Actions**  
Elena Hoicka, Su-hua Wang  
University of California, Santa Cruz, USA

**Infants' Use of Words in Reasoning about Others' Goals: Evidence from 12- and 14-Month-Old Infants**  
Kyong-sun Jin, Hyun-joo Song  
Yonsei University, Seoul, Korea

**12-Month-Olds Expect that Speech can be Used to Communicate a Goal**  
Alia Martin<sup>1,2</sup> Athena Vouloumanos<sup>1,2</sup> Kristine Onishi<sup>1</sup>  
1. McGill University, Montréal, Canada; 2. New York University, New York, USA

10:30 SEYMOUR

**Social Cognition for Communication: Infants' and Toddlers' Production and Comprehension of Displaced and Iconic Reference** (Regular Symposium)  
Chair: Ulf Liszkowski

**What's Near and Dear: The Role of Proximity in Absent Reference Comprehension**  
Megan Saylor<sup>1</sup> Patricia Ganea<sup>2</sup> Mark Somanader<sup>1</sup>  
1. Vanderbilt University, Nashville, USA; 2. Boston University, Boston, USA

**Prelinguistic Infants Communicate about Absent Entities; Apes Don't**  
Ulf Liszkowski  
Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany

**Young Children's Use and Comprehension of Deictic and Iconic Gestures**

Tanya Behne<sup>1</sup> Malinda Carpenter<sup>2</sup>

1. University of Manchester, Manchester, UK; 2. Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany

10:30

MACKENZIE

**Mutual Exclusivity in Word Learning: Mechanism and Development** (Regular Symposium)

Chair: Emily Mather

Discussant: William Merriman

**Developmental Change in the Computations that Support the Mapping of Novel Labels to Novel Objects**

Justin Halberda

The John Hopkins University, Baltimore, USA

**The Impact of General Processing Factors on Mutually Exclusive Responding**

Emily Mather, Kim Plunkett

University of Oxford, Oxford, UK

**Lexical Conventions vs. Pragmatics in 2-Year-Old's Interpretation of Novel and Familiar Words**

Susanne Grassmann, Michael Tomasello

Max-Planck-Institute for Evolutionary Anthropology, Leipzig, Germany

10:30

CYPRESS

**The Scope and Origins of Children's Assumption of Conventionality** (Regular Symposium)

Chairs: Gil Diesendruck and Susan Birch

Discussant: Deborah Kelemen

**Young Children's Credibility Vigilance when Learning Social Conventions**

Susan Birch<sup>1</sup> Sophie Vauthier<sup>1</sup> Nazanin Akmal<sup>1</sup>

Kristen Frampton<sup>2</sup>

1. University of British Columbia, Vancouver, Canada;

2. University of Toronto, Toronto, Canada

**"Who Knows How It's Done?" – Young Children Differentially Learn Norms and Rules from Reliable and Adult Models**

Hannes Rakoczy, Felix Warneken, Michael Tomasello

Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany

**Behavioral Cues to Conventionality: The Role of Intention and Stability**

Gil Diesendruck<sup>1</sup> Shifra Wolgelernter<sup>1</sup> Lori Markson<sup>2</sup>

1. Bar-Ilan University, Ramat-Gan, Israel; 2. University of California - Berkeley, Berkeley, USA

10:30

C BALLROOM

**Progress in Understanding Infant Crying and Sleeping Problems, their Distinguishing Features, and Outcomes** (Fishbowl Symposium)

Chair: Ian St James-Roberts

**Contributions of Parenting to Infant Crying and Sleeping Problems**

Ian St James-Roberts

Thomas Coram Research Unit, Institute of Education, University of London, London, UK

**Behavioral Insomnias of Infancy**

Thomas Anders, Beth Goodlin-Jones

Dept. Psychiatry & Behavioral Sciences, UC Davis M.I.N.D. Institute, Sacramento, USA

**Interventions for Infant Sleep and Cry Problems:**

**Effective Strategies and Predictors of Non-response**

Harriet Hiscock<sup>1,2,3</sup> Jordana Bayer<sup>1,2,3</sup> Anna Price<sup>1,2</sup>

Melissa Wake<sup>1,2,3</sup> Frank Oberklaid<sup>1,2,3</sup>

1. Centre for Community Child Health, Royal Children's Hospital, Melbourne, Australia; 2. Murdoch Children's Research Institute, Melbourne, Australia; 3. Department of Pediatrics, University of Melbourne, Melbourne, Australia

**Developmental Consequences of Regulation**

**Problems in Infancy and ADHD**

Dieter Wolke, Muthanna Samara, Renate Meyer

University of Warwick, Department of Psychology and Health Science Research Institute, Warwick Medical School, Warwick, UK

12:00–13:30

FRIDAY LUNCH

12:00

OAK ROOM

**The Latest from the Granting Councils: Updates and a Question and Answer Period**

**Canadian Institutes for Health Research:**

Anne-Cecile Desfaits, PhD., Assistant Director, Institute of Child Development, Child & Youth Health

**Natural Sciences and Engineering Research Council of Canada**

Rick Warren, NSERC Manager Pacific Region or Pam Giberson, PhD., Research Development and Innovation Officer

**National Institutes for Health of the U.S.**

Anita Sostek, PhD., Division Director, Clinical and Population Based Studies

**National Science Foundation of the U.S.**

Amy Sussman, PhD., Program Director, Developmental and Learning Sciences

13:30–15:20

FRIDAY ORAL SESSION 3

13:30

A & B BALLROOM

**Memory Enhancers: Chunking, Feeding and Sleep** (Invited Symposium)

Chair: Michael Lewis

**The Feeding Effect on Infant Memory for Spoken Words**

Ronald Barr  
Centre for Community Child Health Research, Child and Family Research Center, Vancouver, Canada

Friday, March 28  
10:30, 12:00, 13:30 Orals

**Conceptual Knowledge Increases Infants' Memory Capacity**

Lisa Feigenson  
*Johns Hopkins University, Baltimore, USA*

**Sleep and Memory Consolidation in Infant Learning**  
Rebecca Gomez, Almut Hubbach, Richard Bootzin,  
Lynn Nadel  
*The University of Arizona, Tucson, USA*

13:30 E & F BALLROOM

**Continuity and Change in Early Language Development** *(Invited Symposium)*

Chair: Sandra Waxman

**Continuity in Processing Skill: Early Fluency in Understanding Facilitates Language Learning**  
Anne Fernald, Virginia Marchman  
*Stanford University, Stanford, USA*

**Learning the Hard Words: The Information-Growth Hypothesis**  
Lila Gleitman  
*University of Pennsylvania, Philadelphia, USA*

**Early Acquisition of Nouns and Verbs: The Role of Universal Conceptual Constraints, Word Learning Biases and Syntactic Cues**  
Imai Mutsumi  
*Keio University, Tokyo, Japan*

13:30 MACKENZIE

**Conceptual Primitives For Processing Events and Learning Relational Terms** *(Regular Symposium)*

Chairs: Shannon Pruden and Tilbe Goksun  
Discussant: Susan Hespos

**Processing Events and Relational Terms: Figures are More Prominent than Grounds**  
Tilbe Goksun<sup>1</sup> Kathy Hirsh-Pasek<sup>1</sup> Sarah Roseberry<sup>1</sup>  
Roberta Golinkoff<sup>2</sup>  
1. *Temple University, Philadelphia, USA;*  
2. *University of Delaware, Newark, USA*

**Infants' Categorization of Sources and Goals in Motion Events**  
Laura Lakusta  
*Harvard University, Cambridge, USA*

**How Infants Learn to Form Spatial Categories: Does One Size Fit All?**  
Marianella Casasola  
*Cornell University, Ithaca, USA*

13:30 D BALLROOM

**Emotion and the Development of the Ecological Self** *(Regular Symposium)*

Chair: Carl Frankel  
Discussant: Joseph Campos

**Predictive Grasp and the Development of Targeted Anger in Infancy**  
David Witherington  
*University of New Mexico, Albuquerque, USA*

**Co-acquisition of Postural Stability and the Fear of Falling**  
Carl Frankel<sup>1</sup> Joseph Campos<sup>2</sup> Brian Meyer<sup>2</sup>  
David Anderson<sup>3</sup>  
1. *Vanderbilt Kennedy Center, Nashville, USA;* 2. *University of California, Berkeley, Berkeley, USA;* 3. *San Francisco State University, San Francisco, USA*

**Control Over a Powered-Mobility Device Affects the Ecological Self and Also Positive and Negative Emotions**  
Ichiro Uchiyama<sup>1</sup> Mika Ueno<sup>1</sup> David Anderson<sup>2</sup>  
Joseph Campos<sup>3</sup>  
1. *Doshisha University, Kyoto, Japan;* 2. *San Francisco State University, San Francisco, USA;* 3. *University of California, Berkeley, Berkeley, USA*

13:30 SEYMOUR

**The Development of Early Prosocial Behaviors** *(Regular Symposium)*

Chair: Felix Warneken  
Discussant: Tracy Spinrad

**Social-Cognitive Contributors to Prosocial Behavior**  
Amrisha Vaish, Felix Warneken, Michael Tomasello,  
Malinda Carpenter  
*Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany*

**Prosocial Behavior in Toddlers: Developments in Empathic Responsiveness and Sharing**  
Margarita Svetlova, Sara Nichols, Celia Brownell  
*University of Pittsburgh, Pittsburgh, USA*

**The Foundations of Cooperation in Young Children**  
Kristina Olson, Elizabeth Spelke  
*Harvard University, Cambridge, USA*

13:30 C BALLROOM

**What's in a Touch** *(Regular Symposium)*

Chair: Ruth Grunau  
Discussant: William Fifer

**Pain-related Stress in Infants Born Preterm**  
Ruth Grunau  
*Child and Family Research Institute and Pediatrics Dept., University of British Columbia, Vancouver, Canada*

**The Fundamentals of Early Experience - A Kiss May Just Be a Kiss, and a Sigh, Just a Sigh: But a Touch Could Change Your Life**

Catharine Rankin

*Brain Research Centre and Psychology Dept., University of British Columbia, Vancouver, Canada*

**The Effects of Skin-to-Skin Contact on Pain Response in Preterm Neonates**

C. Johnston

*McGill University School of Nursing, Montréal, Canada*

13:30 CYPRESS

**Issues in Early Identification of Autism in Diverse High-Risk Infant Cohorts** *(Regular Symposium)*

Chair: Judith Gardner

Discussant: Lonnie Zwaigenbaum

**Contrasts of Medical and Behavioral Data from NICU Infants Suspect and Non-Suspect for Autism Spectrum Disorder (ASD)**

Bernard Karmel<sup>1</sup> Judith Gardner<sup>1</sup> Lauren Swensen<sup>1</sup> Elizabeth Lennon<sup>1</sup> Eric London<sup>2</sup>

*1. Department of Infant Development, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, USA; 2. New York State Institute for Basic Research in Developmental Disabilities, Staten Island, USA*

**Associations Between Early Measures of Medical Complications and Neurobehavioral Integrity with Later Dimensional Measures of Autism Traits in NICU Infants**

Ira Cohen, Tina Rovito-Gomez

*Behavioral Assessment & Research Laboratory, Department of Psychology, New York State Institute for Basic Research in Developmental Disabilities, Staten Island, USA*

**New Perspectives on Joint Attention in Children with Autism and their Siblings**

Peter Mundy

*University of California at Davis School of Education and M.I.N.D Institute, Davis, USA*

16:00 FRIDAY ORAL SESSION 4

16:00 DEF BALLROOM

**ISIS Business Meeting and Award Ceremony**

17:00 DEF BALLROOM

**The Evolution of Infant Cognition: A Personal Account** *(President's Address)*

Leslie Cohen

*University of Texas at Austin, Austin, USA*

07:30-8:20 SATURDAY BREAKFAST ROUND TABLES

7:30 OAK 1

**Teaching Developmental Science: Integrating Scholarship and Pedagogy**

Wendy Ostroff<sup>1</sup> Megan McIlreavy<sup>2</sup> Jamie Cooper<sup>3</sup>

*1. Sonoma State University, Rohnert Park, USA; 2. University of Georgia, Athens, USA; 3. George Mason University, Fairfax, USA*

7:30 OAK 2

**Understanding Coparenting Alliances in Nuclear, Fragile, and Extended Kinship Family Systems: Taking Stock of Best Practices and Unresolved Issues in Conceptualization and Assessment**

James McHale<sup>1</sup> Mark Feinberg<sup>2</sup> France Frasciarolo<sup>3</sup> Deborah Jones<sup>4</sup> Kristin Lindahl<sup>5</sup> Neena Malik<sup>6</sup> Sarah Mangelsdorf<sup>7</sup>

*1. USF St. Petersburg, St. Petersburg, USA; 2. Pennsylvania State University, University Park, USA; 3. Centre D'Etude de la Famille, Lausanne, Switzerland; 4. University of North Carolina at Chapel Hill, Chapel Hill, USA; 5. University of Miami, Miami, USA; 6. University of Miami, Miller School of Medicine, Miami, USA; 7. University of Illinois, Urbana, USA*

08:30-10:20 SATURDAY ORAL SESSION 1

8:30 A & B BALLROOM

**Intention-Reading in Infancy** *(Invited Speaker)*

Amanda Woodward

*University of Maryland, College Park, USA*  
Introduced by: Susan Birch

8:30 E & F BALLROOM

**Beyond Where?: Using Neuroimaging to Examine How Infants Learn about and Represent the World** *(Invited Symposium)*

Chair: Charles Nelson

**Measuring Gamma-Band EEG Oscillations as a Tool to Study Infant Cognition**

Gergely Csibra

*Birkbeck, University of London, London, UK*

Friday, March 28  
13:30, 16:00 Orals

Saturday, March 29  
07:30, 8:30 Orals

**Beyond Where? Neuroimaging and the Discovery of How the Infants Learn How to Represent the World**  
Jacques Mehler  
*International School for Advanced Studies, Trieste, Italy*

**Using Neuroimaging to Study the Development of Domain-Specific Mechanisms**  
Rebecca Saxe  
*Department of Brain and Cognitive Sciences, MIT, Cambridge, USA*

8:30 CYPRESS

**Prenatal Exposure to Women's Mood Dysregulation: What is the Signal Affecting the Fetus and Child?** (Regular Symposium)

Chair: Catherine Monk  
Discussant: Tim Oberlander

**Fetal Heart Rate Reactivity is Associated with Women's Psychiatric Status and Cortisol**  
Catherine Monk<sup>1,2</sup> William Fifer<sup>1</sup> Lynn Evans<sup>1</sup> Lauren Kaplan<sup>1</sup>  
*1. Columbia University, New York, USA; 2. New York State Psychiatric Institute, New York, USA*

**Women's Antenatal Depression and Newborn Neurobehavioral and Neuroendocrine Functioning: Tests of Moderators and Mediators Over Mid- to Late-Pregnancy**  
Sherryl Goodman<sup>1</sup> Sarah Brand<sup>2</sup> Matthew Rouse<sup>2</sup>  
*1. Emory University, Department of Psychology, Atlanta, USA; 2. Emory University, Atlanta, USA*

**Prenatal Maternal Stress and Depression and Infant Outcomes**  
Patricia Brennan, Elaine Walker, Jeffrey Newport, Zachary Stowe  
*Emory University, Atlanta, USA*

8:30 C BALLROOM

**The Emerging Self** (Regular Symposium)

Chair: Michael Lewis  
Discussant: Michael Lewis

**Infants Use Attentional Cues to Determine Whether Emotional Information is Relevant to the Self**  
Betty Repacholi, Andrew Meltzoff  
*University of Washington, Seattle, USA*

**From Implicit to Explicit Ownership**  
Philippe Rochat<sup>1</sup> Claudia Passos-Ferreira<sup>2</sup>  
*1. Emory University, Atlanta, USA; 2. State University of Rio de Janeiro, Rio de Janeiro, Brazil*

**Self Representation and Brain Development**  
Dennis Carmody, Michael Lewis  
*UMDNJ - Robert Wood Johnson Medical School, New Brunswick, USA*

8:30 D BALLROOM

**Selective Imitation in Infancy** (Regular Symposium)

Chairs: Norbert Zmyj and David Buttelmann  
Discussant: Merideth Gattis

**Imitation of Differently Aged Models in 14-Month-Old Infants**

Norbert Zmyj<sup>1</sup> Moritz Daum<sup>1</sup> Wolfgang Prinz<sup>1</sup> Gisa Aschersleben<sup>2</sup>  
*1. Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany; 2. Saarland University, Saarbrücken, Germany*

**Does a Model's Observed Competence Influence Infants' Imitative Behaviour?**

David Buttelmann, Malinda Carpenter  
*Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany*

**"Only if it Works": Causal Knowledge Affects Infants' Selection of Actions to Imitate**

Emily Bushnell, Jessica Yang  
*Tufts University, Medford, USA*

8:30 E & F BALLROOM

**Social Perception: Lessons from the Development of Sensitivity to Biological Motion** (Regular Symposium)

Chair: Catherine Mondloch  
Discussant: Nikolaus Troje

**Naïve Newborn Chicks (Gallus gallus) Prefer Biological Motion Patterns**

Lucia Regolin<sup>1</sup> Giorgio Vallortigara<sup>2</sup>  
*1. University of Padova, Padova, Italy; 2. University of Trieste, Trieste, Italy*

**Newborns Prefer Biological Motion**

Francesca Simion, Lucia Regolin, Hermann Bulf, Lara Bardi, Elisa DiGiorgio  
*University of Padova, Padova, Italy*

**Normal Sensitivity to Biological Motion Despite Early Visual Deprivation**

Daphne Maurer, Alejo Freire, Terri Lewis  
*Department of Psychology, Neuroscience & Behaviour, McMaster University, Hamilton, Canada*

8:30 SEYMOUR

**Maternal Depression and Anxiety During Pregnancy: Effects on Fetal and Infant Behavior and Development** (Regular Symposium)

Chair: Bárbara Figueiredo

**Maternal Depression and Anxiety during Pregnancy: Effects on Fetal Growth and Activity during the 2nd Gestation Trimester**

Bárbara Figueiredo<sup>1</sup> Ana Conde<sup>1</sup> Iva Tendais<sup>1</sup> César Teixeira<sup>1</sup> Maria Do Céu Nogueira<sup>2</sup> Raúl Nogueira<sup>2</sup>  
*1. Universidade do Minho, Braga, Portugal; 2. Maternidade de Júlio Dinis, Porto, Portugal*

**Maternal Depression and Anxiety During Pregnancy: Effects on the Neonate**  
**“Mother Versus Strange” Preference**

Alexandra Pacheco, César Teixeira, Ana Conde,  
Bárbara Figueiredo  
*Universidade do Minho, Braga, Portugal*

**Maternal Depression and Anxiety during Pregnancy: Effects on the Neonate Neurobehavioral Organization**  
Raquel Costa, Alexandra Pacheco, César Teixeira, Ana Conde, Bárbara Figueiredo  
*Universidade do Minho, Braga, Portugal*

**10:30–12:20 SATURDAY ORAL SESSION 2**

**10:30 A & B BALLROOM**

**On Dinosaur Bones and the Meaning of Words** (*Invited Speaker*)  
Jeff Elman  
*University of California, San Diego, La Jolla, USA*  
Introduced by: Les Cohen

**10:30 E & F BALLROOM**

**New Approaches to Understanding and Treating Autism** (*Invited Symposium*)

Chair: Lonnie Zwaigenbaum

**Robot-Mediated Social Interaction for Autism Therapy**  
Hideki Kozima<sup>1</sup> Cocoro Nakagawa<sup>1</sup> Yuriko Yasuda<sup>2</sup>  
1. *National Institute of Information and Communications Technology, Japan*; 2. *Omihachiman-City Daycare Center for Children with Special Needs, Japan*

**Developmental Trajectories in ASD from 12 to 36 Months**  
Catherine Lord  
*University of Michigan, Ann Arbor, USA*

**Resolution with Diagnosis among Parents of Children with Autism Spectrum Disorders**  
Nurit Yirmiya

*The Hebrew University of Jerusalem, Jerusalem, Israel*

**10:30 SEYMOUR**

**The Surprisingly Late Development of Goal-Directed Instrumental Action** (*Regular Symposium*)

Chair: Ben Kenward  
Discussant: Petra Hauf

**Action-Effect Learning and Action Control in Infancy**  
Stephan Verschoor, M. Weidema, S. Biro, B. Hommel  
*University of Leiden, Leiden, The Netherlands*

**The Goal-Directedness of Young Children’s Action Assessed through Devaluation Experiments**  
James Russell  
*University of Cambridge, Cambridge, UK*

**Is Button Pushing in Young Children Goal-Directedly Motivated by the Expected Outcome?**

Ben Kenward  
*Uppsala University, Uppsala, Sweden*

**10:30 D BALLROOM**

**The Origins of Social Cognition** (*Regular Symposium*)

Chair: Katherine Kinzler  
Discussant: Emmanuel Dupoux

**Children’s Predisposition for Altruism**  
Felix Warneken, Michael Tomasello  
*Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany*

**Early Social Cognition**  
J. Hamlin, Karen Wynn, Paul Bloom  
*Yale University, New Haven, USA*

**Infants and Children’s Attention to Language over Race in Guiding Social Preferences**  
Katherine Kinzler<sup>1</sup> Emmanuel Dupoux<sup>2</sup>  
Elizabeth Spelke<sup>1</sup>  
1. *Harvard University, Cambridge, USA*; 2. *Laboratoire de Sciences Cognitives et Psycholinguistique, EHESS, Paris, France*

**10:30 C BALLROOM**

**Mother-Infant Interactions: What Determines Parenting in Challenging Contexts?** (*Regular Symposium*)

Chairs: Cynthia Smith and Esther Leerkes  
Discussant: Susan Crockenberg

**Toddlers’ Compliance and Noncompliance: Prediction from Maternal Behavior and Temperament across the Toddler Years**  
Tracy Spinrad<sup>1</sup> Nancy Eisenberg<sup>1</sup> Roopa Iyer<sup>2</sup>  
1. *Arizona State University, Tempe, USA*; 2. *University of California at Berkeley, Berkeley, USA*

**Maternal Personality: Relations to Maternal Control with Toddlers**  
Cynthia Smith, Annabelle Goodwin  
*Virginia Tech, Blacksburg, USA*

**Predictors of Maternal Sensitivity to Infant Distress: A Social Information Processing Perspective**  
Esther Leerkes  
*University of North Carolina at Greensboro, Greensboro, USA*

**Saturday, March 29**  
**10:30, 12:00, 13:30 Orals**

**10:30** CYPRESS

**Assessment of Neonatal Movement Competence: Implications for Behavioral and Neurological Prediction** (*Regular Symposium*)

Chair: David Anderson  
Discussant: Joseph Campos

**Attention and Motor Modulation in High-Risk Neonates**  
Judith Gardner<sup>1,2</sup> Bernard Karmel<sup>1,2</sup> Phyllis Kittler<sup>1,2</sup>  
Robert Freedland<sup>1,2</sup> Anthony Barone<sup>2</sup> Anantham Harin<sup>2</sup>  
1. *New York State Institute for Basic Research in Developmental Disabilities, New York, USA*; 2. *Richmond University Medical Center, New York, USA*

**Lateral Bias of Arm Movements in Neonates: The Effect of Head Position, Body Position, and Behavioral State**  
Louise Rönnqvist<sup>1</sup> Brian Hopkins<sup>2</sup>  
1. *Department of Psychology, Umeå University, Umeå, Sweden*; 2. *Centre for Research in Human Development, Department of Psychology, Lancaster University, Lancaster, UK*

**Neonatal Stepping in Relation to Approaching and Receding Terrestrial Optic Flows**  
Marianne Barbu-Roth<sup>1</sup> David Anderson<sup>2</sup> Joëlle Provasi<sup>3</sup> Adeline Desprès<sup>4</sup> Ryan Streeter<sup>5</sup> Robert Schleichauf<sup>5</sup>  
1. *CNRS and Laboratoire Psychologie de la Perception, Université Paris 5, Paris, France*; 2. *Department of Kinesiology, San Francisco, USA*; 3. *Laboratoire PsychoBiologie Développement, Paris, Paris, France*; 4. *Laboratoire Psychologie de la Perception, Université Paris 5, Paris, France*; 5. *Department of Kinesiology, San Francisco State University, San Francisco, USA*

**12:00–13:30** SATURDAY LUNCH

**12:00** OAK ROOM  
**Lunch with Scholars** (*see sidebar*)

**Speech Perception; Bilingualism**  
Núria Sebastián-Gallés (Spain)

**Executive Functioning and Cognitive Control; Developmental Neuroscience**  
Adele Diamond (Canada)

**Language Learning**  
Anne Fernald (USA)

**Prenatal Perceptual Development; Comparative Development**  
Robert Lickliter (USA)

**Early Speech Perception, Bilingualism; Neuroscience**  
Emmanuel Dupoux (France)

**13:30–15:20** SATURDAY ORAL SESSION 3

**13:30** E & F BALLROOM  
**Early Cognition and Cognitive Development: Some Lessons from 25 Years of Research** (*Invited Speaker*)  
Adele Diamond  
*University of British Columbia, Vancouver, Canada*  
Introduced by: Nathan Fox

**13:30** A & B BALLROOM  
**Initial Steps in Acculturation: Perceptual Foundations** (*Invited Symposium*)

Chair: Daphne Maurer

**Developmental Cerebral Lateralization and Early Speech Acquisition: Evidence from Neuro-Imaging Studies in Infants**  
Emmanuel Dupoux<sup>1</sup> Yasuyo Minagawa<sup>2</sup>  
1. *Laboratoire de Sciences Cognitives et Psycholinguistique, EHESS, Paris, France*; 2. *Keio University, Tokyo, Japan*

**Infants' Representation of Humans: Intermodal Processes**  
Olivier Pascalis  
*University of Sheffield, Sheffield, UK*

**Early Door Experience as Cultural Forerunner, or Ways Mothers Use to Launch Predictable Cues in their Infant's Environment**  
Benoist Schaal  
*Centre Europeen des Sciences du Gout, Dijon, France*

**13:30** C BALLROOM  
**Methods in Developmental Cognitive Neuroscience: The State of the Art** (*Regular Symposium*)

Chair: Scott Johnson  
Discussant: Richard Aslin

**Functional Magnetic Resonance Imaging & Diffusion Tensor Imaging: Applications and Promise for Developmental Research**  
Dima Amso  
*Sackler Institute for Developmental Psychobiology, New York, USA*

**What is Optical Imaging and How Does It Work?**  
Susan Hesos  
*Northwestern University, Evanston, USA*

**Computational Models and Neuroconstructivism**  
Denis Mareschal  
*Birkbeck College, Los Angeles, USA and University of London, London, UK*

**What's Inside a Baby's Head?**  
John Richards  
*University of South Carolina, Columbia, USA*

"Lunch with Scholars" is a restricted session open only to undergraduates, and is a paid event. Any undergraduates wishing to purchase a ticket should enquire at the registration desk. Enrollment is limited. Price: \$15.00.

13:30

SEYMOUR

**Methodological and Analytical Advances in Assessing Infants' Information Processing** (Regular Symposium)

Chair: Robin Panneton  
Discussant: John Colombo

**Modality-Dependent and Modality-Independent Measures of Attention**

Christopher Robinson<sup>1</sup> Vladimir Sloutsky<sup>1</sup> Robin Panneton<sup>2</sup>

1. Center for Cognitive Science, The Ohio State University, Columbus, USA; 2. Virginia Tech, Blacksburg, USA

**Comparing Attention to Faces Across Development Using Free-Viewing Eye-Tracking**

Michael Frank<sup>1</sup> Edward Vul<sup>1</sup> Scott Johnson<sup>2</sup>

1. Massachusetts Institute of Technology, Boston, USA; 2. Department of Psychology, University of California at Los Angeles, Los Angeles, USA

**Assessing Speech Discrimination in Individual Infants**

Derek Houston<sup>1</sup> David Horn<sup>1</sup> Sara Tinter<sup>1</sup> Rachael Holt<sup>2</sup> Jonathan Ting<sup>1</sup> Rong Qi<sup>1</sup> Sujuan Gao<sup>1</sup>

1. Indiana University School of Medicine, Indianapolis, USA; 2. Indiana University, Indianapolis, USA

13:30

D BALLROOM

**Utilizing Rich, Real-Time, Socio-Emotional Datasets to their Full Potential: The Dynamics of Infant Reactivity and Regulation Using Complex Modeling Methods** (Regular Symposium)

Chair: Heather Warren

**Dyadic Indices of Parent-Infant Interaction: Measures and Meaning**

Ginger Moore, Christopher Powers, Anneliese Bass  
Penn State University, University Park, USA

**Positive Parent-Child Interaction in High-Risk Families and Growth in Children's Self-Regulation from Ages 2 to 4**

Erika Lunkenheimer, Thomas Dishion, Charlotte Winter  
University of Oregon, Eugene, USA

**Self- and Caregiver-Supported Regulation: Using Latent Markov Models to Understand What Works and What Matters for Infant Coping**

Heather Warren<sup>1</sup> Cynthia Stifter<sup>2</sup> Michael Rovine<sup>2</sup> Katerina Sinclair<sup>2</sup>

1. George Mason University, Fairfax, USA; 2. Penn State University, University Park, USA

13:30

CYPRESS

**The Psychological Antecedents and Consequences of Powered-Mobility Training** (Regular Symposium)

Chair: James Galloway  
Discussant: John Spencer

**Babies Driving Robots: Self-Generated Mobility for Young Infants**

James Galloway  
University of Delaware, Newark, USA

**Thinking Outside the Robot: Developmentally Inspired Technology for Teaching Real World Navigation**

Sunil Agrawal  
University of Delaware, Newark, USA

**Is Locomotor Experience a Mere Antecedent of a Cause of Psychological Development: Studies with a Powered-Mobility-Device**

Ichiro Uchiyama<sup>1</sup> David Anderson<sup>2</sup> Joesph Campos<sup>3</sup>  
1. Doshisha University, Kyoto, Japan; 2. San Francisco State University, San Francisco, USA; 3. University of California, Berkeley, Berkeley, USA

13:30

MACKENZIE

**Action and Understanding: The Thorny Issue of How to Interpret Infant Behaviour** (Regular Symposium)

Chair: Jeremy Carpendale  
Discussant: Charlie Lewis

**Wittgenstein's Baby: Infants must Act before they Can Theorize**

Ulrich Mueller  
University of Victoria, Victoria, Canada

**Do's and Don't's in the First Year of Life: Adult Directives and Infant Compliance**

Kerry Hicks, Vasudevi Reddy, Katja Liebal  
University of Portsmouth, Portsmouth, UK

**Joint Attention: One Insight or Many Skills?**

Maximilian Bibok<sup>1</sup> Stuart Hammond<sup>1</sup> Jeremy Carpendale<sup>2</sup>  
1. Simon Fraser University, Burnaby, Canada; 2. Psychology Department, Simon Fraser University, Burnaby, Canada

15:30-17:20

SATURDAY ORAL SESSION 4

15:30

E & F BALLROOM

**Mechanisms of Sequence Learning in Infancy: Rules, Statistics, and their Interactions** (Fishbowl Symposium)

Chair: Michael Frank  
Discussant: Scott Johnson

**A Rational Model of Sequential Rule Learning**

Michael Frank Joshua Tenenbaum  
Massachusetts Institute of Technology, Department of Brain and Cognitive Sciences, Cambridge, USA

**Interactions between Statistical and Rule Learning in Adults and Infants**

Hugh Rabagliati, Gary Marcus  
Department of Psychology, New York University, New York, USA

**Exploring Bayesian Hypothesis Selection as a Learning Mechanism Available to Infants**

Louann Gerken

*Department of Psychology, University of Arizona, Tucson, USA*

**Do Infants Track Statistics over Grammar-Type Sequences?**

Jenny Saffran

*Department of Psychology and Waisman Center, University of Wisconsin-Madison, Madison, USA*

15:30

C BALLROOM

**Processing and Learning of Allophonic Contrasts in Infancy** (Regular Symposium)

Chairs: Kristine Onishi and Amanda Seidl

Discussant: Cynthia Fisher

**Learning of Allophone-Based Sound Sequences in Infancy**

Amélie Bernard<sup>1</sup> Alejandrina Cristià<sup>2</sup> Amanda Seidl<sup>2</sup> Kristine Onishi<sup>1</sup>

1. McGill University, Montréal, Canada;

2. Purdue University, West Lafayette, USA

**The Acquisition of Phonological Alternations Using Distributional Cues**

Katherine White<sup>1</sup> James Morgan<sup>2</sup> Sharon Peperkamp<sup>3</sup>

1. University of Rochester, Rochester, USA; 2. Brown University, Providence, USA; 3. Laboratoire de Sciences Cognitives & Psycholinguistique & Université de Paris VIII, Paris, France

**Early Discrimination of Positional Variants of Consonants: Acquiring Subphonemic Sensitivity**

Bob McMurray, Marcus Galle

*University of Iowa, Iowa City, USA*

15:30

A & B BALLROOM

**The Role of Auditory Stimuli and Labels in Infant Categorisation** (Regular Symposium)

Chair: Kim Plunkett

Discussant: Daniel Swingley

**Impact of Labels on Categorisation in Infancy**

Sandra Waxman

*Northwestern University, Chicago, USA*

**Exploring Mechanisms Underlying Effects of Words on Categorization**

Vladimir Sloutsky, Christopher Robinson

*Ohio State University, Columbus, USA*

**Labels, Perceptual Similarity and Infant Categorisation**

Kim Plunkett<sup>1</sup> Jon-fan Hu<sup>1</sup> Leslie Cohen<sup>2</sup>

1. Experimental Psychology, University of Oxford, Oxford, UK; 2. University of Texas, Austin, USA

15:30

CYPRESS

**Olfaction, Emotion and Cognition** (Regular Symposium)

Chair: Nathalie Goubet

Discussant: Benoist Schaal

**Olfaction-Pain Interactions in Full-Term and Preterm Newborns**

Nathalie Goubet

*Gettysburg College, Gettysburg, USA*

**Characterizing the Neural Circuit for Attachment Learning**

Regina Sullivan

*University of Oklahoma, Norman, USA*

**Lasting Odor Memories Acquired while Sucking on the Mother's Breast**

Maryse Delaunay-El Allam, Robert Soussignan,

Bruno Patris, Luc Marlier, Benoist Schaal

*Centre Européen des Sciences du Gout, Dijon, France*

15:30

D BALLROOM

**The Role of Experience in the Development of Face Processing** (Regular Symposium)

Chair: Paul Quinn

Discussant: James Tanaka

**Tuning into Face, Gender and Race Information During Infancy**

Paul Quinn<sup>1</sup> David Kelly<sup>2</sup> Kang Lee<sup>3</sup> Olivier Pascalis<sup>2</sup> Alan Slater<sup>4</sup>

1. University of Delaware, Newark, USA; 2. University of Sheffield, Sheffield, UK; 3. University of Toronto, Toronto, Canada; 4. University of Exeter, Exeter, UK

**The Effects of Early and Later Experience on Face Recognition Abilities: Evidence from the Other-Age Effect**

Viola Macchi Cassia

*Università degli Studi di Milano-Bicocca, Milano, Italy*

**Facial Experience during the First Year**

Jennifer Rennels, Rachel Simmons

*University of Nevada, Las Vegas, Las Vegas, USA*