CogSci 2015 - Detailed Schedule

Wednesday Workshops and Tutorials

Workshop on optimizing experimental designs: Theory, practice, and applications, Full-day workshop (9:00-16:00), Track 1 [CC 211]
Organizers: Jay Myung, Mark Pilt, & Maarten Speekenbrink

Evidence accumulation modeling: Bayesian estimation using differential evolution, Full-day tutorial (9:00-16:00), Track 2 [CC 212-214]
Organizers: Andrew Heathcote, Brandon Turner, & Scott Brown

Physical and social scene understanding, Full-day workshop (9:00-16:00), Track 3 [CC 101]
Organizers: Tao Gao, Yibiao Zhao, & Lap-Fai (Craig) Yu

Full day tutorial on quantum models of cognition and decision, Full-day tutorial (9:00-16:00), Track 4 [CC 102]
Organizers: Jennifer Trueblood, James Yeansley, Zheng Wang, & Jerome Busemeyer

Applying for National Science Foundation funding, Half-day workshop (13:00-16:00), Track 5 [CC 103]
Organizers: Anne Cleary, Hector Avila-Munoz, Evan Heil, Chris Hoodley, Laura Namy, Alumit Ishai, & Betty Tuller

Programming online experiments with jpsPsych, Full-day tutorial (9:00-16:00), Track 6 [CC 104]
Organizer: Joshua de Leeuw

Quantifying the dynamics of interpersonal interaction: A primer on cross-recurrence quantification analysis using R, Half-day tutorial (9:00-12:00), Track 7 [CC 105]
Organizers: Moreno Coco & Rick Dale

Women in Cognitive Science Panel Discussion and Reception, Evening session, 16:00-18:30 (with Reception), Track 7 [CC 105]
Organizers: Laurie Feldman, & Natasha Tokowicz

Tutorial: Bayesian data analysis, Full-day tutorial (9:00-16:00), Track 8 [CC 106]
Organizer: John Kruschke

Language & common sense: Integrating across psychology, linguistics, and computer science, Full day workshop (9:00-16:00), Track 9 [CC 107]
Organizers: Joshua Hartshorne & Joshua Tenenbaum

Thursday Morning, Keynote 1 (09:00-10:00) [Ballroom A-E]
Keynote: Rich Ivy - Dept of Psychology and Helen Wills Neuroscience Institute, UC Berkeley
Embodied Decision Making: System interactions in movement execution and action selection [Ballroom A-E]

Thursday Morning, Coffee Break (10:00-10:30) [Outside Ballroom C-F]

Thursday Morning (10:30-12:00), Track 1 [Ballroom G]: Invited Symposium: Cognitive Science in Society
Cognitive Science in Society
Organizer: Teenie Matlock, UC Merced

Michael Ranney, University of California, Berkeley
Daniel M. Russell, Google
Daniel C. Richardson, University College London

Thursday Morning (10:30-12:00), Track 2 [Ballroom H]: Symposium: The Relevance of Alternative Possibilities throughout Cognition
The Relevance of Alternative Possibilities throughout Cognition
Author(s): Jonathan Phillips, Joshua Knobe, Andrew Shultman, Charles Kalish, Anne Riggs, Christopher Hitchcock

Thursday Morning (10:30-12:00), Track 3 [CC 101]: Group Cognition
presenter of the last talk serves as session chair

A Comparison of Small Crowd Selection Methods
Author(s): Henrik Olsson, Jane Loveday

The Roles of Knowledge and Memory in Generating Top-10 Lists
Author(s): Michael Lee, Emily Liu, Mark Steyvers

You're special, but it doesn't matter if you're a greenhorn: Social recommender strategies for mere mortals
Author(s): Panteis P. Analytis, Daniel Barkoczi, Stefan Herzog

Emergent Collective Sensing in Human Groups
Author(s): Peter Krafft, Robert X.D. Hawkins, Alex Pentland, Noah Goodman, Josh Tenenbaum
Thursday Morning (10:30-12:00), Track 4 [CC 102]: Perception

presenter of the last talk serves as session chair

Common object representations for visual recognition and production
Author(s): Judith E. Fan, Daniel L. K. Yamins, Nicholas B. Turk-Browne

Modeling the Object Recognition Pathway: A Deep Hierarchical Model Using Gnostic Fields
Author(s): Panu Wang, Garrison Cottrell, Christopher Kanan

The suggestible nature of apparent motion perception
Author(s): Nicolas Davidenko, Yeram Cheong, Jacob Smith

Motion perception of biological swarms
Author(s): Adriane Seiftert, Sean Hayes, Caroline Harriott, Julie Adams

Thursday Morning (10:30-12:00), Track 6 [CC 104]: Gesture

presenter of the last talk serves as session chair

Creating New Sign Systems from Scratch: Gesture has the Upper Hand
Author(s): Casey J. Lister, Nicolas Fay, T. Mark Ellison, Jeneva Ohan

More than Meets the Eye: Gesture Changes Thought, even without Visual Feedback
Author(s): Kensy Cooperrider, Elizabeth Wakefield, Susan Goldin-Meadow

Language and Gesture Descriptions Affect Memory: A Nonverbal Overshadowing Effect
Author(s): Mark Koranda, Maryellen MacDonald

Visuo-spatial Working Memory and the Comprehension of Iconic Gestures
Author(s): Ying Choon Wu, Bonnie Chinh, Seana Coulson

Thursday Morning (10:30-12:00), Track 7 [CC 105]: Numeric Cognition

presenter of the last talk serves as session chair

Symbolic Integration, Not Symbolic Estrangement, For Double-Digit Numbers
Author(s): Allison Liu, Christian Schunn, Julie Fiez, Melissa Libertus

Independent Recognition of Numerosity Requires Attention
Author(s): Saebbyul Lee, Vladimir Sloutsky

The mental number-line spreads by gestural contagion
Author(s): Tyler Margheriti, Luke Eberle, Benjamin Bergen

Development of Numerosity Estimation: A Linear to Logarithmic Shift?
Author(s): Dan Kim, John Opfer

Thursday Morning (10:30-12:00), Track 8 [CC 106]: Lexical Acquisition I

presenter of the last talk serves as session chair

Adults Track Multiple Hypotheses Simultaneously during Word Learning
Author(s): Suzanne Aussen, Paul Vogt

Iconicity in English Vocabulary and its Relation to Toddlers’ Word Learning
Author(s): Lynn Perry, Marcus Perlman, Gary Lupyan

Statistical Word Learning is a Continuous Process: Evidence from the Human Simulation Paradigm
Author(s): Yayun Zhang, Daniel Yurovsky, Chen Yu

Toddlers Always Get the Last Word: Recency biases in early verbal behavior
Author(s): Emily Sumner, Erika DeAngelis, Mara Hyatt, Noah Goodman, Celeste Kidd

Thursday Morning (10:30-12:00), Track 9 [CC 107]: Decision Making Under Risk

presenter of the last talk serves as session chair

Human behavior in contextual multi-armed bandit problems
Author(s): Hvoje Stojic, Pantelis P. Analytis, Maarten Speekenbrink

Modeling choice and search in decisions from experience: A sequential sampling approach
Author(s): Douglas Markant, Timothy Pleskac, Adele Diedrich, Thorsten Pachur, Ralph Hertwig

Computational evolution of decision-making strategies
Author(s): Peter Kram, Joseph Cesario, Jory Schossau, Heather Elston, Arend Hintze

Learning and decisions in contextual multi-armed bandit tasks
Author(s): Eric Schulz, Emmanouil Konstantinidis, Maarten Speekenbrink
Thursday Lunch (12:00-13:00) [On Your Own]

Thursday, Poster Session 1 (13:00-14:30) [Exhibit Hall A]

Thursday Afternoon, Break (14:30-15:00) [On Your Own]

Thursday Afternoon (15:00-16:30), Track 1 [Ballroom G]: Glushko Dissertation Prizes

Glushko Dissertation Prize Symposium
Organizer: Linda B. Smith, Indiana University
Harm Brouwer, University of Groningen
The Electrophysiology of Language Comprehension: A Neurocomputational Model
Brendon Lake, Massachusetts Institute of Technology
Towards more human-like concept learning in machines: Compositionality, causality, and learning-to-learn
Jessica Sullivan, University of California - San Diego
The Roles of Inference and Associative Learning in the Construction of Mappings Between Number Words and Numerical Magnitudes
Da Cheong (Jena) Hwang, University of Colorado (talk canceled, speaker unable to attend)
Identification and Representation of Caused Motion Constructions

Thursday Afternoon (15:00-16:30), Track 2 [Ballroom H]: Symposium: Connecting learning, memory, and representation in math education

Connecting learning, memory, and representation in math education
Author(s): Martha Alibali, Chuck Kalish, Timothy Rogers, Christine Massey, Phil Kellman, Vladimir Sloutsky, James L. McClelland, Kevin Mickey

Thursday Afternoon (15:00-16:30), Track 3 [CC 101]: Culture

presenter of the last talk serves as session chair
Resolving Rogers’ Paradox with Specialized Hybrid Learners
Author(s): Milad Kharratizadeh, Marcel Monrey, Alex Metz, Thomas Shultz
That went over my head: Constraints on the visual vocabulary of comics
Author(s): Neil Cohn, Beena Murthy
Eye to I: Males Recognize Own Eye Movements, Females Inhibit Recognition
Author(s): Sanjay Chandrasekharan, Geetanjali Date, Pratik Pande, Jeenath Rahaman, Rafik Shaikh, Anveshna Srivastava, Nisheeth Srivastava, Harshit Agrawal
A Communal Exchange-based Framework for Cultural Evolution
Author(s): Liane Gabora

Thursday Afternoon (15:00-16:30), Track 4 [CC 102]: Motor Control & Learning

presenter of the last talk serves as session chair
Deliberate Practice Revisited: Complexity and Creativity in the Practice Process in Breakdance
Author(s): Daichi Shimizu, Takeshi Okada
Cognition in reach: continuous statistical inference in optimal motor planning
Author(s): Santiago Alonso-Diaz, Jessica F. Cantlon, Steven T. Piantadosi
Can Joint Action be Synergistic? Studying the Stabilization of Interpersonal Hand Coordination
Author(s): Veronica Romero, Rachel Kallen, Michael Riley, Mike Richardson
Visual-motor coordination in natural reaching of young children and adults
Author(s): John Franchak, Chen Yu

Thursday Afternoon (15:00-16:30), Track 5 [CC 103]: Bilingualism & Language Variation

presenter of the last talk serves as session chair
Defaulting effects contribute to the simulation of cross-linguistic differences in Optional Infinitive errors
Thursday Afternoon (15:00-16:30), Track 6 [CC 104]: Relational Representations I

- The early emergence and puzzling decline of relational reasoning: Effects of prior knowledge and search on inferring “same” and “different”
  Author(s): Caren Walker, Sophie Bridgers, Alison Gopnik

- Comparison and Function in Children’s Object Categorization
  Author(s): Katherine Kimura, Samuel Hunley, Laura Namy

- Learning mode and comparison in relational category learning
  Author(s): John Patterson, Kenneth Kurtz

- Learning and Generalizing Cross-Category Relations Using Hierarchical Distributed Representations
  Author(s): Dawn Chen, Hongjing Lu, Keith Holyoak

Thursday Afternoon (15:00-16:30), Track 7 [CC 105]: Spatial Cognition

- An adaptive cue combination model of spatial reorientation
  Author(s): Yang Xu, Terry Regier, Nora Newcombe

- Both symbolic and embodied representations contribute to spatial language processing; Evidence from younger and older adults
  Author(s): Ioanna Markotamou, Kenny Coventry, Chris Fox, Lynn McInnes

- Visuo-Spatial Memory Processing and the Visual Impedance Effect
  Author(s): Rebecca Albrecht, Holger Schultheiss, Wai-Tat Fu

- Memory foraging in a spatial domain
  Author(s): Janelle Szary, Chris Kello, Rick Dale

Thursday Afternoon (15:00-16:30), Track 8 [CC 106]: Sentence Processing

- Constraint-Based Parsing with Distributed Representations
  Author(s): Peter Blouw, Chris Eliasmith

- Learning a Center-Embedding Rule in an Artificial Grammar Learning Task
  Author(s): Won Jae Shin, Kathleene Eberhard

- Statistical Structures in Artificial languages Prime Relative Clause Attachment Biases in English
  Author(s): Felix Wang, Mythili Menon, Eti Kaiser

- Production is biased to provide informative cues early: Evidence from miniature artificial languages
  Author(s): Maryia Fedzechkina, T. Florian Jaeger, John Trueswell

Thursday Afternoon (15:00-16:30), Track 9 [CC 107]: Adaptation

- Reconstructing the Bayesian Adaptive Toolbox: Challenges of a dynamic environment and partial information acquisition
  Author(s): Percy Mistry, Jennifer Trueblood

- Connecting rule-abstraction and model-based choice across disparate learning tasks
  Author(s): Hilary Don, Micah Goldwater, A. Ross Otto, Evan Livesey

- Near-misses sting even when they are uncontrollable
  Author(s): Desmond Ong, Noah Goodman, Jamil Zak

- Structured priors in visual working memory revealed through iterated learning
  Author(s): Timothy Lew, Ed Vul

Thursday Afternoon, Coffee Break (16:30-17:00) [Outside Ballroom C-F]
Thursday Evening, Heineken Prize Presentation (17:00-18:00) [Ballroom A-E]

Heineken Prize Presentation: Jay McClelland - Department of Psychology, Stanford University
Toward a Parallel Distributed Processing Approach to Mathematical Cognition (Ballroom A-E)

Thursday Evening, Business Meeting (18:00-19:00) [Ballroom A-E]

Friday Morning, Keynote 2 (09:00-10:00) [Ballroom A-E]

Keynote: Rosalind Picard - MIT Media Laboratory
Surprising Findings from Measuring Emotion in Real Life (Ballroom A-E)

Friday Morning, Coffee Break (10:00-10:30) [Outside Ballroom C-F]

Friday Morning (10:30-12:00), Track 1 [Ballroom G]: Invited Symposium: Human-Machine Symbiosis 50 Years Later

Human-Machine Symbiosis 50 Years Later
Organizers: Paul Maglio and David C. Noelle, UC Merced
Mike van Lent, SoarTech
Leila Takayama, GoogleX
David Woods, The Ohio State University

Friday Morning (10:30-12:00), Track 2 [Ballroom H]: Symposium: Analogical Processes in Language Learning

Analogical Processes in Language Learning
Author(s): Bozena Pawlik, Micah Goldwater, Dedre Gentner, Adele Goldberg, Ruxue Shao

Friday Morning (10:30-12:00), Track 3 [CC 101]: Ethical Decision Making I

presenter of the last talk serves as session chair

Emergence of systematic iconicity: transmission, interaction and analogy
Author(s): Tessa Verhoeven, Sean Roberts, Mark Dingemanse

Inference of Intention and Permissibility in Moral Decision Making
Author(s): Max Kleiman-Weiner, Tobias Gerstenberg, Sydney Levine, Josh Tenenbaum

Moral Reasoning as Probability Reasoning
Author(s): Yiyun Shou, Fei Song

Choosing fast and slow: explaining differences between hedonic and utilitarian choices
Author(s): Nisheeth Srivastava, Ed Vul

Friday Morning (10:30-12:00), Track 4 [CC 102]: Perception-Action Development

presenter of the last talk serves as session chair

Power-law fluctuations in eye movements predict text comprehension during connected text reading
Author(s): Sebastian Wallot, Beth O'Brien, Charles Coey, Damian Kelly-Stephen

Congenitally Deaf Children Generate Iconic Vocalizations to Communicate Magnitude
Author(s): Marcus Perlman, Jing Paul, Gary Lupyan

Children's early perceptual and late-emerging social sensitivity to accented speech
Author(s): Sarah Creel, Emilie Seubert

A fine-grained understanding of emotions: Young children match within-valence emotional expressions to their causes
Author(s): Yang Wu, Paul Muentener, Laura Schulz

Friday Morning (10:30-12:00), Track 5 [CC 103]: Education

presenter of the last talk serves as session chair

Effectiveness of Learner-Regulated Study Sequence: An in-vivo study in Introductory Psychology course
Author(s): Paulo Carvalho, David Braithwaite, Josh de Leeuw, Benjamin Matz, Rob Goldstone

The Impact of Granularity on Worked Examples and Problem Solving
Pathways of Conceptual Change: Investigating the Influence of Experimentation Skills on Conceptual Knowledge Development in Early Science Education  
Author(s): Peter Edelsbrunner, Lennart Schalk, Ralph Schumacher, Elsbeth Stern

Executive Functions and Conceptual Change in Science and Mathematics Learning  
Author(s): Stella Vasiliadou, Dimitrios Pnevmatikas, Nikos Makris, Kalliopi Eikospontaki, Despina Lepenioti, Anna Chountala, Giorgos Kyrianakis

Friday Morning (10:30-12:00), Track 6 [CC 104]: Embodiment

presenter of the last talk serves as session chair

The perceptual foundation of linguistic context  
Author(s): Francis Mollica, Steven Plantadosi, Michael Tanenhaus

Reading Words Hurts: The impact of pain sensitivity on people’s ratings of pain-related words  
Author(s): Erica Cosentino, Markus Wenig, Kevin Reuter

Interactivity, Expertise and Individual Differences in Mental Arithmetic  
Author(s): Lisa Guthrie, Charlotte Harris, Frederic Vallee-Tourangeau

Insight and cognitive ecosystems  
Author(s): Frederic Vallee-Tourangeau, Sune Vork Steffensen, Gaelle Vallee-Tourangeau, Angeliki Makri

Friday Morning (10:30-12:00), Track 7 [CC 105]: Time

presenter of the last talk serves as session chair

Temporal Binding and Internal Clocks: Is Clock Slowing General or Specific?  
Author(s): Richard Fereday, Marc Buehner

An ACT-R Model of the Choose-Short Effect in Time and Length  
Author(s): Jung Ae Moon, John Anderson

New space-time metaphors foster new mental representations of time  
Author(s): Rose Hendricks, Lera Boroditsky

Do potential past and future events activate the Lateral Mental Timeline?  
Author(s): Roberto Aguirre, Julia Santiago

Friday Morning (10:30-12:00), Track 8 [CC 106]: Social Development

presenter of the last talk serves as session chair

Learning to reason about desires: An infant training study  
Author(s): Tiffany Doan, Stephanie Denison, Christopher Lucas, Alison Gopnik

Linking Joint Attention with Hand-Eye Coordination – A Sensorimotor Approach to Understanding Child-Parent Social Interaction  
Author(s): Chen Yu, Linda Smith

Beliefs about desires: Children’s understanding of how knowledge and preference influence choice.  
Author(s): Julian Jara-Ettinger, Emily Lydic, Josh Tenenbaum, Laura Schulz

Understanding young children’s imitative behavior from an individual differences perspective  
Author(s): Yue Yu, Tamar Kushnir

Friday Morning (10:30-12:00), Track 9 [CC 107]: Reasoning Under Uncertainty

presenter of the last talk serves as session chair

The Exemplar Confusion Model: An Account of Biased Probability Estimates in Decisions from Description  
Author(s): Deborah Lin, Christopher Donkin, Ben Newell

Some Probability Judgments may Rely on Complexity Assessments  
Author(s): Antoine SallentFest, Jean-Louis Dessalles

Belief Utility as an Explanatory Virtue  
Author(s): Samuel Johnson, Greeshma Rajeev-Kumar, Frank Keil

Predictions from Uncertain Beliefs  
Author(s): Samuel Johnson, Thomas Merchant, Frank Keil

Friday Lunch (12:00-13:00) [On Your Own]

Friday, Poster Session 2 (13:00-14:30) [Exhibit Hall A]
Friday Afternoon, Break (14:30-15:00) [On Your Own]

Friday Afternoon (15:00-16:30), Track 1 [Ballroom G]: Rumelhart Symposium

Symposium in Honor of Michael Jordan
Organizer: Tom Griffiths, UC Berkeley

David Blei, Columbia University
Emily Fox, University of Washington
Geoff Hinton, Google and University of Toronto (via video)
Robbie Jacobs, University of Rochester
Josh Tenenbaum, MIT

Abstract: Michael Jordan has worked on a variety of topics in cognitive science and machine learning, exploring how the process of learning itself can be formalized and drawing deep connections to statistics. This symposium will feature speakers who have been influenced by different eras of Jordan’s research program - from neural networks, to first contact with statistics, to expressive probabilistic models and nonparametric Bayesian inference. The presentations will explore the impact of this work in both cognitive science and machine learning, highlighting the ways in which Jordan’s work has influenced how we think about learning in both humans and machines.

Friday Afternoon (15:00-16:30), Track 2 [Ballroom H]: Symposium: Causality and Agency Across Cultures and Languages

Causality and Agency Across Cultures and Languages
Author(s): Sieghard Beller, Andrea Bender, Jürgen Bohnemeyer, Annelie Rothe-Wullf, York Hagmayer, Rita Astuti

Friday Afternoon (15:00-16:30), Track 3 [CC 101]: Entrainment & Coordination

[Talk canceled] Syntactic Alignment is an index of Affective Alignment: An Information-Theoretical Study of Natural Dialogue
Author(s): Fermín Moscoso del Prado Martín, John W. Du Buis

Verbal Synchrony in Large Groups
Author(s): Jorina von Zimmermann, Daniel Richardson

Physiological entrainment and behavioral coordination in a collective, creative construction task
Author(s): Riccardo Fusaroli, Johanne Bjamda, Andreas Roepstorff, Kristian Tylén

Investigating Strategy Discovery and Coordination in a Novel Virtual Sheep Herding Game among Dyads
Author(s): Patrick Nalepka, Cristopher Riehm, Carl Bou Mansour, Anthony Chemero, Michael J. Richardson

Friday Afternoon (15:00-16:30), Track 4 [CC 102]: Attention

[Talk canceled] Attention dynamics in multiple object tracking
Author(s): Nisheeth Sivastava, Ed Vul

Development of selective attention in category learning
Author(s): Samuel Rivera, Vladimir Sloutsky

Influence of Excitation/Inhibition Imbalance on Local Processing Bias in Autism Spectrum Disorder
Author(s): Yukie Nagai, Takakazu Moriwaki, Minoru Asada

The Attentional Learning Trap and How to Avoid It
Author(s): Alexander Rich, Todd Gureckis

Friday Afternoon (15:00-16:30), Track 5 [CC 103]: Color Concepts

[Talk canceled] How do children construct the color lexicon? : Restructuring the domain as a connected system
Author(s): Noburo Saji, Michiko Asano, Midori Oishi, Mutsumi Imai

Language evolution in the lab tends toward informative communication
Author(s): Alexandra Castensen, Jing Xu, Cameron Smith, Terry Regier

Signatures of Domain-General Categorization Mechanisms in Color Word Learning
Author(s): Daniel Yurovsky, Katie Wagner, David Barner, Michael Frank

Inferring the Tsimane’s use of color categories from recognition memory
Author(s): Perrin Hemmer, Kimele Persaud, Celeste Kidd, Steven Plantadosi
Friday Afternoon (15:00-16:30), Track 6 [CC 104]: Discourse

presenter of the last talk serves as session chair

Metaphors Affect Reasoning: Measuring Effects of Metaphor in a Dynamic Opinion Landscape
Author(s): Paul Thibodeau, Peace Iyiewaure, Lera Boroditsky

Comparing Metaphors Reveals their Persuasive Capacity
Author(s): Paul Thibodeau, Karlyn Gehring

Explaining Injustice in Speech: Individualistic vs. Structural Explanation
Author(s): Saray Ayala, Nadya Vasilyeva

Wonky worlds: Listeners revise world knowledge when utterances are odd
Author(s): Judith Degen, Michael Henry Tessler, Noah D. Goodman

Friday Afternoon (15:00-16:30), Track 7 [CC 105]: Math Education & Number Concepts

presenter of the last talk serves as session chair

Representing and Learning a Large System of Number Concepts with Latent Predicate Networks
Author(s): Joshua Rule, Eyal Dechter, Joshua Tenenbaum

Semantic Alignment of Fractions and Decimals with Discrete Versus Continuous Entities: A Cross-national Comparison
Author(s): Hee Seung Lee, Melissa DeWolf, Miriam Bassok, Keith Holyoak

The Role of Executive Functions for Structure-Mapping in Mathematics
Author(s): Keshnig Begoli, Lindsey Richland, Susanne Jaeggi

Analyzing chunk pauses to measure mathematical competence: Copying equations using ‘centre-click’ interaction.
Author(s): Peter Cheng

Friday Afternoon (15:00-16:30), Track 8 [CC 106]: Language Processing & Production

presenter of the last talk serves as session chair

Phrase similarity in humans and machines
Author(s): Samuel Gershman, Josh Tenenbaum

Modeling idiosyncratic preferences: How generative knowledge and expression frequency jointly determine language structure
Author(s): Emily Morgan, Roger Levy

Implementation of selective attention in sequential word production
Author(s): Nazbanou Nozari, Gary Dell, Kyle Schneck, Barry Gordon

Individual Differences in Chunking Ability Predict On-line Sentence Processing
Author(s): Stewart M. McCauley, Morten H. Christensen

Friday Afternoon (15:00-16:30), Track 9 [CC 107]: Search & Decision Making

presenter of the last talk serves as session chair

Active learning as a means to distinguish among prominent decision strategies
Author(s): Paula Parpart, Eric Schultz, Maarten Speekenbrink, Brad Love

Verbal Reports Reveal Strategies in Multiple-Cue Probabilistic Inference
Author(s): Matthew Walsh, Michael Collins, Kevin Gluck

Why do people fail to consider alternative hypotheses in judgments under uncertainty?
Author(s): Brett Hayes, Guy Hawkins, Ben Newell

Are Biases When Making Causal Interventions Related to Biases in Belief Updating?
Author(s): Anna Coenen, Todd Gureckis

Friday Afternoon, Coffee Break (16:30-17:00) [Outside Ballroom C-F]

Friday Evening, Rumelhart Presentation (17:00-18:00) [Ballroom A-E]

Rumelhart Prize Presentation: Michael Jordan - UC Berkeley (Ballroom A-E)

Friday Evening, Rumelhart Reception (18:00-19:00) [Exhibit Hall C]

Saturday Morning, Keynote 3 (09:00-10:00) [Ballroom A-E]
Saturday Morning, Coffee Break (10:00-10:30) [Outside Ballroom C-F]

Saturday Morning (10:30-12:00), Track 1 [Ballroom G]: Invited Symposium: Contemporary Perspectives on Sensory Perception and Multimodality

Contemporary Perspectives on Sensory Perception and Multimodality
Organizers: Carolyn Jennings and Jeff Yoshimi, UC Merced
Clare Batty, University of Kentucky
Casey O'Callaghan, Washington University in St. Louis
Ladan Shams, UCLA

Saturday Morning (10:30-12:00), Track 3 [CC 101]: Social Cognition & Learning

presenter of the last talk serves as session chair
Reasoning about sentience and animacy: Children's and adults' inferences about the properties of unseen entities
Author(s): Kara Weisman, Ellen Markman, Carol Dweck

In Search of Triggering Conditions for Spontaneous Visual Perspective Taking
Author(s): Xuan Zhao, Corey Cusimano, Bertram F. Malle

Social Eye Cue: How Knowledge Of Another Person's Attention Changes Your Own
Author(s): Miles Tufft, Matthias Gobel, Daniel Richardson

Responsibility judgments in voting scenarios
Author(s): Tobias Gerstenberg, Joseph Halpern, Josh Tenenbaum

Saturday Morning (10:30-12:00), Track 4 [CC 102]: Variance in Performance

presenter of the last talk serves as session chair
Support for a Deliberative Failure Account of Base-Rate Neglect: Prompting Deliberation Increases Base-Rate Use
Author(s): Natalie Obrecht, Dana Chesney

ACT-R and LBA Model Mimicry Reveals Similarity Across Modeling Formalisms
Author(s): Christopher Fisher, Matthew Walsh, Leslie Blaha, Glenn Gunzelmann

Variability in Human Response Time Reflects Statistical Learning and Adaptive Decision-Making
Author(s): Ning Ma, Angela Yu

Exploring Individual Differences via Clustering on Capacity Coefficients
Author(s): Joseph Houpf, Leslie Blaha

Saturday Morning (10:30-12:00), Track 5 [CC 103]: Testimony

presenter of the last talk serves as session chair
Can children balance the size of a majority with the quality of their information?
Author(s): Jane Hu, Andrew Whalen, Daphna Bucshbaum, Tom Griffiths, Fei Xu

Children and adults differ in their strategies for social learning
Author(s): Falk Lieder, Zi Lin Sim, Jane C. Hu, Tom Griffiths, Fei Xu

The better part of not knowing: Virtuous ignorance
Author(s): Jonathan F. Kominsky, Philip Langthorne, Frank C. Keil

The reliability of testimony and perception: connecting epistemology and linguistic evidentiality
Author(s): Claire Lesage, Nalini Ramlakhan, Ida Toivonen, Chris Wildman

Saturday Morning (10:30-12:00), Track 6 [CC 104]: Relational Representations II

presenter of the last talk serves as session chair
Evaluating Human Cognition of Containing Relations with Physical Simulation
Author(s): Wei Liang, Yibiao Zhao, Yixin Zhu, Song-Chun Zhu

Semantic chaining and efficient communication: The case of container names
Author(s): Yang Xu, Terry Regier, Barbara Malt

Statements of equivalence can imply differences: Asymmetries in directional comparisons
Author(s): Eleanor Chestnut, Carla Remula, Ellen Markman
Saturday Morning (10:30-12:00), Track 7 [CC 105]: Learning

presenter of the last talk serves as session chair

How learners use feedback information: Effects of social comparative information and achievement goals
Author(s): Masayuki Suzuki, Tetsuya Toyofu, Yuan Sun

Self-Directed Information Gathering Improves Learning in Young Children
Author(s): Eric Partridge, Matthew McGovern, Amanda Yung, Celeste Kidd

When Do Nonspecific Goals Help Learning? An Issue of Model Quality
Author(s): Saskia Kistner, Bruce Burns, Regina Vollmeyer, Kortenkamp Ulrich

Change your Mind: Investigating the Effects of Self-Explanation in the Resolution of Misconceptions
Author(s): Laura Allen, Danielle McNamara, Matthew McCrudden

Saturday Morning (10:30-12:00), Track 8 [CC 106]: Lexical Acquisition II

presenter of the last talk serves as session chair

Eye Movements Reveal Sensitivity to Sound Symbolism Early and Late in Word Learning
Author(s): Kate Pirog Revill, Laura Namy, Lynne Nygaard

Daxing with a Dax: Evidence of Productive Lexical Structures in Children
Author(s): Sara Al-Mughairy, Ruthe Foushee, David Barner, Mahesh Srinivasan

Understanding deverbal nominals: World knowledge or lexical semantics?
Author(s): Anastasia Smirnova

Predicting a Child’s Trajectory of Lexical Acquisition
Author(s): Nicole Beckage, Michael Mazer, Eliana Colunga

Saturday Morning (10:30-12:00), Track 9 [CC 107]: Mental Simulation

presenter of the last talk serves as session chair

The “Fundamental Attribution Error” is rational in an uncertain world.
Author(s): Drew Walker, Kevin Smith, Ed Vul

Think again? The amount of mental simulation tracks uncertainty in the outcome
Author(s): Jessica Hamrick, Kevin Smith, Tom Griffiths, Ed Vul

The naive utility calculus: Joint inferences about the costs and rewards of actions
Author(s): Julian Jara-Ettinger, Laura Schulz, Josh Tenenbaum

Causal relations from kinematic simulations
Author(s): Sangeet Khemlani, Geoff Goodwin, Phil Johnson-Laird

Saturday Lunch (12:00-13:00) [On Your Own]

Saturday, Poster Session 3 (13:00-14:30) [Exhibit Hall A]

Saturday Afternoon, Break (14:30-15:00) [On Your Own]

Saturday Afternoon (15:00-16:30), Track 1 [Ballroom G]: Symposium: Generative and Discriminative Models in Cognitive Science

Generative and Discriminative Models in Cognitive Science
Author(s): Brad Love, Michael Ramscar, Tom Griffiths, Matt Jones

Saturday Afternoon (15:00-16:30), Track 3 [CC 101]: Music & Aesthetic Cognition

presenter of the last talk serves as session chair

Reading and writing direction effects on the aesthetic perception of photographs
Author(s): Chahboun Sobh, Flumini Andrea, Carmen Pérez González, I. Chris McManus, Julio Santiago

Music Reading Expertise Modulates Hemispheric Lateralization in English Word processing but not in Chinese Character Processing
Saturday Afternoon (15:00-16:30), Track 4 [CC 102]: Philosophy of Science

presenter of the last talk serves as session chair

How the curse of intractability can be cognitive science’s blessing
Author(s): Iris van Rooij

Why Build a Virtual Brain? Large-scale Neural Simulations as Test-bed for Artificial Computing Systems
Author(s): Matteo Colombo

Rethinking the Conceptual History of the Term ‘Cognitive’
Author(s): Nicholas Zautra

What is the Role of Conceptual Analysis in Cognitive Science?
Author(s): Liam Kavanagh, Christopher Suhler

Saturday Afternoon (15:00-16:30), Track 5 [CC 103]: Language-Based Learning

presenter of the last talk serves as session chair

Making Sense of Time-Series Data: How Language Can Help Identify Long-Term Trends
Author(s): Jordan Harold, Kenny R. Coventry, Irene Lorenzoni, Thomas F. Shipley

Odor naming is difficult, even for wine and coffee experts
Author(s): Ilja Croijmans, Asifa Majid

Flexible Use of Phonological and Visual Memory in Language-mediated Visual Search
Author(s): Daniel F. Pontillo, Anne Pier Salverda, Michael K. Tanenhaus

Teaching with Rewards and Punishments: Reinforcement or Communication?
Author(s): Mark Ha, Michael Lifman, Fiery Cushman, Joseph Austerweil

Saturday Afternoon (15:00-16:30), Track 6 [CC 104]: Pragmatics

presenter of the last talk serves as session chair

Pronominal Reference and Pragmatic Enrichment: A Bayesian Account
Author(s): Andrew Kehler, Hannah Rohde

Let’s talk (ironically) about the weather: Modeling verbal irony
Author(s): Justine Kao, Noah Goodman

Speaker-specific generalization of pragmatic inferences based on pronominal adjectives
Author(s): Amanda Pague, Chigusa Kurumada, Michael Tanenhaus

The special status of color in pragmatic reasoning: evidence from a language game
Author(s): Peter Baumann

Saturday Afternoon (15:00-16:30), Track 7 [CC 105]: Explanation

presenter of the last talk serves as session chair

Goals Affect the Perceived Quality of Explanations
Author(s): Nadya Vasilyeva, Daniel Wilkenfeld, Tania Lombrozo

The Eco-Cognitive Model of Abduction (EC-Model): Is Abduction Really Ignorance-Preserving?
Author(s): Lorenzo Magnani

Explanations and Causal Judgments are Differentially Sensitive to Covariation and Mechanism Information
Author(s): Nadya Vasilyeva, Tania Lombrozo

Ignorance-Based Chance Discovery. Beyond Dark Events
Author(s): Lorenzo Magnani, Selene Arfini, Tommaso Bertolotti

Saturday Afternoon (15:00-16:30), Track 8 [CC 106]: Statistical Learning from Sequences

presenter of the last talk serves as session chair

A Bayesian Framework for Learning Words From Multiword Utterances
Author(s): Stephan Meylan, Thomas Griffiths

Constraints on Learning Non-Adjacent Dependencies (NADs) of Visual Stimuli
Author(s): Jia Li, Toben Mintz
Saturday Afternoon (15:00-16:30), Track 9 [CC 107]: Cognitive Engineering

presenter of the last talk serves as session chair

Multiple Language Gender Identification for Blog Posts
Author(s): Juan Soler-Company, Leo Wanner

Memory Processes of Sequential Action Selection
Author(s): Frank Tamborello, Gregory Trafton, Erik Altmann

Restoring the Context of Interrupted Work with Desktop Thumbnails
Author(s): Adam Rule, Aurelien Tabard, Karen Boyd, James Hollan

Assessing Emotions by Cursor Motions: An Affective Computing Approach
Author(s): Takashi Yamauchi, Hwaryong Seo, Yoonsuck Choe, Casady Bowman, Kunchen Xiao

Saturday Afternoon, Coffee Break (16:30-17:00) [Outside Ballroom C-F]

Saturday Closing (17:00-18:30), Track 1 [Ballroom G]: Symposium: Communicating Cognitive Science

Communicating Cognitive Science: Improving Awareness and Understanding Among People Who are Not Ourselves
Author(s): Kevin Gluck, Wayne Gray, Marsha Lovett, Art Markman, Jim Spohrer

Saturday Closing (17:00-18:30), Track 3 [CC 101]: Ethical Decision Making II

presenter of the last talk serves as session chair

Moral Dynamics In Everyday Life: How Does Morality Evolve In Time?
Author(s): Albert Barque-Duran, Emmanuel Pothos, James Yeatsley, James Hampton

The Effect of Probability Anchors in Moral Decision Making
Author(s): Chris Brand, Mike Oakford

When killing the heavy man seems right. Making people utilitarian by simply adding options to moral dilemmas
Author(s): Alex Wiegmann, Karina Meyer

Mental states are more important in evaluating moral than conventional violations
Author(s): Carly Giffin, Tania Lombrozo

Saturday Closing (17:00-18:30), Track 4 [CC 102]: Sequential Dependence in Learning

presenter of the last talk serves as session chair

Staying afloat on Neurath's boat -- Heuristics for sequential causal learning
Author(s): Neil Bramley, Peter Dayan, David Lagnado

Elemental Causal Learning from Transitions
Author(s): Kevin Soo, Benjamin Rothman

Learning of Time Varying Functions is Based on Association Between Successive Stimuli
Author(s): Lee-Xing Yang, Tzu-Hsi Lee

Can You Repeat that? The Effect of Item Repetition on Interleaved and Blocked Study
Author(s): Abigail Kost, Paula Carvalho, Rob Goldstone

Saturday Closing (17:00-18:30), Track 5 [CC 103]: Similarity & Association

presenter of the last talk serves as session chair

A Dissociation between Categorization and Similarity to Exemplars
Author(s): Nolan Conaway, Kenneth Kurtz

Quantifying the time course of similarity
Author(s): Andrew Hendrickson, Daniel Navarro, Chris Donkin

An Account of Associative Learning in Memory Recall
Author(s): Robert Thomson, Aryn Pyke, Laura Hiatt, Greg Trafton

A Dynamic Approach to Secondary Processes in Associative Recognition
Author(s): Gregory Cox, Richard Shiffrin

Saturday Closing (17:00-18:30), Track 6 [CC 104]: Language Development
2-year-olds use syntax to infer actor intentions in a rational-action paradigm  
Author(s): Melissa Kline, Jesse Snedeker

Neural Effects of Childhood Language Deprivation on Picture Processing: Insights from Adolescent First-Language Learners  
Author(s): Tristan Davenport, Naja Ferjan Ramirez, Matthew Leonard, Rachel Mayberry, Eric Halgren

Explaining the Number Hierarchy  
Author(s): Robert Malouf, Farrell Ackerman, Scott Seyfarth

Children’s Online Processing of Ad-Hoc Implicatures  
Author(s): Erica J. Yoon, Yunan Charles Wu, Michael C. Frank

Saturday Closing (17:00-18:30), Track 7 [CC 105]: Creativity  
presenter of the last talk serves as session chair

A Study and Preliminary Model of Cross-Domain Influences on Creativity  
Author(s): Liane Gabara, Nicole Carbert

A Computational Model of Mind Wandering  
Author(s): Laura Hiatt, Greg Trafton

Constructing meaning: Material products of a creative activity engage the social brain  
Author(s): Kristian Tylén, Johanne Stege Bjørndahl, Andreas Roepstorff, Riccardo Fusaroli

Saturday Closing (17:00-18:30), Track 8 [CC 106]: Language Universals & Change  
presenter of the last talk serves as session chair

The perception of stroke-to-stroke turn boundaries in signed conversation  
Author(s): Marisa Casillas, Connie de Vos, Onna Crasborn, Stephen C. Levinson

Universals on natural language determiners from a PAC-learnability perspective  
Author(s): Giorgio Magri, Giorgio Magri

A Computational Evaluation of Two Laws of Semantic Change  
Author(s): Yang Xu, Charles Kemp

Conceptual complexity and the evolution of the lexicon  
Author(s): Molly Lewis, Mike Frank

Saturday Closing (17:00-18:30), Track 9 [CC 107]: Causation  
presenter of the last talk serves as session chair

A model-based theory of omissive causation  
Author(s): Paul Bello, Sangeet Khemlani

Modelling Causal Reasoning under Ambiguity  
Author(s): Yiyan Shou, Michael Smithson

How, whether, why: Causal judgments as counterfactual contrasts  
Author(s): Tobias Gerstenberg, Noah Goodman, David Lagnado, Josh Tenenbaum

Highlighting the Causal Meaning of Causal Test Questions in Contexts of Norm Violations  
Author(s): Jana Samland, Michael Waldmann