

CogSci 2008 Main Program Information

Wednesday, July 23

8:30-5:00
Diplomat Room

Workshop: Psychocomputational Models of Human Language Acquisition

 Organizers: William Sakas & David Brizan;
Rens Bod, Damir Cavar, Jeffrey Lidz, Gary Marcus,
Josh Tenenbaum

Council Room

Tutorial: Polyscheme Cognitive Architecture

 Organizer: Nick Cassimatis;
Perrin Bignoli & Unmesh Kurup

Executive Room

Tutorial: The use of Event-related Potentials to Study the Development and Decline of Cognitive Function

Organizer: Debra Mills; Steven Luck

Congressional A & B

Tutorial: Bayesian Models of Inductive Learning

 Organizer: Tom Griffiths;
Charles Kemp & Josh Tenenbaum

Cabinet Room

Tutorial: The CLARION Cognitive Architecture

 Organizer: Sébastien Hélie;
Nick Wilson & Ron Sun

Senate Room

Tutorial: Quantum Information Processing Theory

Organizer: Jerome Busemeyer

Calvert Room

Tutorial: Dynamic Field Theory: Conceptual Foundations and Applications in the Cognitive and Developmental Sciences

Organizers: John Spencer & Gregor Schöner

8:30-12:00
Capitol Room

Workshop: Preparing Research Grant Proposals for the Institute of Education Sciences: Bringing Cognitive Science to Education Research

Organizer: Elizabeth Albro

Forum Room

Tutorial: ACT-R

Organizers: Niels Taatgen & Hedderik van Rijn

10:30-5:00
Governor's Room

Tutorial: Computational Modeling of Spoken Language Processing: A Hands-on Tutorial

 Organizer: Ted Strauss;
Dan Mirman & Jim Magnuson

1:30-5:00
Capitol Room

Tutorial: Embodied Cognition and Robotics

Organizers: Chen Yu, Brian Scassellati, Dana Ballard, & Cynthia Breazeal

Forum Room

Tutorial: Recording Infants' Eye Movements

Organizers: Daniel Richardson & Scott Johnson

Thursday, July 24

8:00-8:15

Opening Remarks	
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8:15-9:15: Plenary Talk

Regency Ballroom

Words, actions, objects, and abstractions: Overlapping loops of cause and consequence in developmental process	<i>Linda Smith</i>
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9:15-9:30

Coffee Break	
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9:30-11:00: 6-Track Session

Symposium	<i>Regency Ballroom</i>
Discovering the Conceptual Primitives	<i>Organizer: Jerome Feldman; R. Saxe, Len Talmy, L. Aziz-Zadeh, & D. Casasanto</i>

Language Learning (Chair: Rochelle Newman)	<i>Ambassador Ballroom</i>
Learning Novel Neighbors: Distributed Mappings Help Children and Connectionist Models	<i>Rochelle Newman, Larissa Samuelson, & Prahlad Gupta</i>
Fast-mapping and Reorganization: Development of Verb Meanings as a System	<i>Noburo Saji, Henrik Saalbach, Mutsumi Imai, Yuping Zhang, Hua Shu, & Hiroyuki Okada</i>
Phonological Constraints on Children's Use of the Plural	<i>Marc Ettliger & Jennifer Zapf</i>
Applied Modeling Prize: Children's Grammars Grow more Abstract with Age: Evidence from an Automatic Procedure for Identifying the Productive Units of Language	<i>Gideon Borensztajn, Jelle Zuidema, & Rens Bod</i>

Semantics/Concepts (Chair: Eef Ameel)	<i>Empire Room</i>
Semantic Convergence in the Bilingual Lexicon	<i>Eef Ameel, Gert Storms, Barbara Malt, & Fons van Assche</i>
A Computational Model of Conceptual Combination	<i>Phil Maguire, Rebecca Maguire, & Arthur Cater</i>
Phonaesthemes: A Corpora-based Analysis	<i>Katya Otis & Eyal Sagi</i>
Modeling Semantic Cognition as Logical Dimensionality Reduction	<i>Yarden Katz, Noah Goodman, Kristian Kersting, Charles Kemp, & Joshua Tenenbaum</i>

Thursday, July 24

9:30-11:00: 6-Track Session (continued)

Reasoning and Decision Making (Chair: Erica Yu)		<i>Diplomat Room</i>
The Peak-End Rule and Underestimation in Retrospective Evaluations of Temporally Extended Outcomes	<i>Erica Yu, David A. Lagnado, & Nick Chater</i>	
Predicting Reasoning from Visual Memory	<i>Evan Heit & Brett Hayes</i>	
Somatic Markers and Frequency Effects: Does Emotion really Play a Role on Decision Making in Gambling Tasks?	<i>Danilo Fum, Antonio Napoli, & Andrea Stocco</i>	
What You Do Is What You Set: Semantic Representations of Tasks and the Capture of Awareness	<i>Anirudh Tiwathia & Kenneth Livingston</i>	

Emotional and Cognitive Dynamics in Learning (Chair: Tyler Davis)		<i>Palladian Room</i>
How Goals Shape Category Acquisition: The Role of Contrasting Categories	<i>Tyler Davis & Bradley Love</i>	
Modeling Idea Generation Sequences Using Hidden Markov Models	<i>Hao-Chuan Wang</i>	
Reinforcement Learning Leads to Risk Averse Behavior	<i>Jerker Denrell</i>	
Emotion-Driven Reinforcement Learning	<i>Robert Marinier & John Laird</i>	

Action and Embodied Cognition (Chair: Jeff Loucks)		<i>Blue Room</i>
Sources of Information in Human Action	<i>Jeff Loucks & Dare Baldwin</i>	
The Interactive Routine as Key Construct in Theories of Interactive Behavior	<i>Wayne Gray</i>	
Defending Extended Cognition	<i>Anthony Chemero & Michael Silberstein</i>	
Adaptation to Embodied Dynamics: Evidence from Bayes' Ball	<i>Chris Sims & Wayne Gray</i>	

11:00-11:15

Coffee Break

11:15-12:15: 7-Track Session

Reasoning and Explanation (Chair: Greg Solomon)		<i>Regency Ballroom</i>
Inhibitory Mechanisms and Impairment in Domain-Specific Reasoning: Studies of Healthy Elderly Adults and Patients with Alzheimer's Disease	<i>Deborah Zaitchik & Gregg Solomon</i>	
Ways of Explaining Properties	<i>Daniel Heussen & James Hampton</i>	
Using Qualitative Reasoning for the Attribution of Moral Responsibility	<i>Emmett Tomai & Ken Forbus</i>	

Thursday, July 24**11:15-12:15: 7-Track Session (continued)**

Structure in Language and Developmental Trajectories (Chair: Thomas Hills)		Ambassador Ballroom
Is There Preferential Attachment in the Growth of Early Semantic Noun Networks?	<i>Thomas Hills, Mounir Maouene, Josita Maouene, Adam Sheya, & Linda Smith</i>	
Categorical Structure in Early Semantic Networks of Nouns	<i>Thomas Hills, Mounir Maouene, Josita Maouene, Adam Sheya, & Linda Smith</i>	
Factors Influencing the Interpretation of Noun-Noun Compounds	<i>Phil Maguire, Rebecca Maguire, & Arthur Cater</i>	

Causal Learning and Computations (Chair: Kelly Goedert)		Empire Room
Comparison Then Computation: A Model of Independent Causal Efficacy	<i>Kelly M. Goedert</i>	
Causal Learning Through Repeated Decision Making	<i>York Hagmayer & Bjoern Meder</i>	
Sequential Causal Learning in Humans and Rats	<i>Hongjing Lu, Randall R. Rojas, Tom Beckers, & Alan Yuille</i>	

Space in Language, Perception, and Cognition (Chair: Nina Sims)		Diplomat Room
Spatial Language and Landmark Use: Can 3-, 4-, and 5-year-olds find the Middle?	<i>Nina Simms & Dedre Gentner</i>	
Conceptualization in Language and its Relation to Perception	<i>Timothy Clausner, Philip Kellman, & Evan Palmer</i>	
Spatial Description, Function and Context	<i>Elena Andonova, Thora Tenbrink, & Kenny Coventry</i>	

Contextualized Cognition (Chair: Caitlin Fausey)		Palladian Room
English and Spanish Speakers Remember Causal Agents Differently	<i>Caitlin Fausey & Lera Boroditsky</i>	
Towards a Cognitive Science of Social Inequality: Children's Attention-Related ERPs and Cortisol vary with their Socioeconomic Status	<i>Amedeo D'Angiulli, Joanne Weinberg, Ruth Grunau, & Clyde Hertzman</i>	
Relating Intonational Pragmatics to the Pitch Realizations of Highly Frequent Words in English Speech to Infants	<i>Carolyn Quam, Jiahong Yuan, & Daniel Swingley</i>	

Emergent Understanding (Chair: Paul Williams)		Blue Room
An Embodied Dynamical Approach to Relational Categorization	<i>Paul Williams, Randall Beer, & Michael Gasser</i>	
The Evolution of Frequency Distributions: Relating Regularization to Inductive Biases through Iterated Learning	<i>Florencia Reali & Thomas L. Griffiths</i>	
Learning, Understanding, and Acceptance: The Case of Evolution	<i>Andrew Shtulman & Prassede Calabi</i>	

Thursday, July 24**11:15-12:15: 7-Track Session (continued)**

Semantic Cognition (Chair: Wendy Ann Deslauriers)	Executive Room
To See or Not to See: The Visual Component of Complex Mental Arithmetic	<i>Wendy Ann Deslauriers, Gene P. Ouellette, Martin Barnes, & Jo-Anne LeFevre</i>
The Real Deal: What Judgments of Really Reveal about How People Think about Artifacts	<i>Barbara Malt & Michael Paquet</i>
The Color of Similarity	<i>Brooke Breaux & Michele Feist</i>

12:15-1:45

Lunch (on your own)

1:45-3:15: 6-track Session

Symposium	Regency Ballroom
Theories of Expertise and Measures of Competence: Cognitive and Interactional Perspectives	<i>Organizer: Timothy Koschmann; Colleen Seifert, Carl Frederiksen, Brian MacWhinney</i>

Computational Models of Language Processing (Chair: Theo Vosse)	Ambassador Ballroom
Parsing Verb-Final Clauses in German: Garden-path and ERP Effects Modeled by a Parallel Dynamic Parser	<i>Theo Vosse & Gerard Kempen</i>
Context Repetition Benefits are Dependent on Context Redundancy	<i>Gabriel Recchia, Brendan Johns, & Michael Jones</i>
Settling Dynamics in Distributed Networks Explain Task Differences in Semantic Ambiguity Effects: Computational and Behavioral Evidence	<i>Blair Armstrong & David Plaut</i>
Predicting Word-Naming and Lexical Decision Times from a Semantic Space Model	<i>Brendan Johns & Michael Jones</i>

Causal Reasoning and Categorization (Chair: Bob Rehder)	Empire Room
The Role of Coherence in Causal-Based Categorization	<i>Bob Rehder & ShinWoo Kim</i>
Causal Status and Explanatory Goodness in Categorization	<i>Jason Jameson & Dedre Gentner</i>
Absence Makes the Thought Grow Stronger: Reducing Structural Overlap Can Increase Inductive Strength	<i>Hee Seung Lee & Keith Holyoak</i>
Structured Correlation from the Causal Background	<i>Ralf Mayrhofer, Noah Goodmann, Michael Waldmann, & Joshua Tenenbaum</i>

Internal and External Forces on Memory and Action (Chair: Daniel Richardson)	Diplomat Room
Joint Perception: Gaze and the Presence of Others	<i>Daniel Richardson, Merrit Hoover, & Arezou Ghane</i>
The Concept of Simulation in Control-Theoretic Accounts of Motor Control and Action Perception	<i>Mitchell Herschbach</i>
Thinking in Pictures: A Fresh Look at Cognition in Autism	<i>Maithilee Kunda & Ashok Goel</i>
Higher-Level Cognition Modeling Prize: A Bayesian Account of Reconstructive Memory	<i>Pernille Hemmer & Mark Steyvers</i>

Thursday, July 24

1:45-3:15: 6-track Session (continued)

Cues for Learning and Action (Chair: Meredith Meyer)		<i>Palladian Room</i>
The Role of Conditional Probability and Co-occurrence Frequency in Segmentation of Dynamic Human Action	<i>Meredith Meyer & Dare Baldwin</i>	
The Hierarchies and Systems that Underlie Routine Behavior: Evidence from an Experiment in Virtual Gardening	<i>Nicolas Ruh, Richard Cooper, & Denis Mareschal</i>	
Attentional Allocation During Feedback: Eyetracking Adventures on the Other Side of the Response	<i>Marcus Watson & Mark Blair</i>	
Preventing Postcompletion Errors: How Much Cue Is Enough?	<i>Michael Byrne</i>	

Spatial Cognition (Chair: David Landy)		<i>Blue Room</i>
Why Spatial-Numeric Associations aren't Evidence for a Mental Number Line	<i>David Landy, Erin Jones, & John Hummel</i>	
Effects of Orthographic and Semantic Distractors on Visual Search for Single Words	<i>Laure Lèger, Jean-François Rouet, Christine Ros, & Nicolas Vibert</i>	
Crossed Hands Curve Saccades: Multisensory Dynamics in Saccade Trajectories	<i>Lauren Emberson, Rebecca Weiss, Adriano Barbosa, Eric Vatikiotis-Bateson, & Michael J. Spivey</i>	
The Dynamic Field Theory vs. the Category Adjustment Model: A Critical Test	<i>John Spencer, Wendy Troob, & Vanessa Simmering</i>	

3:15-3:30

Coffee Break	
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3:30-4:30

Rumelhart Lecture	<i>Regency Ballroom</i>
Recognition, Categorization, and the Emergence of Meaning	<i>Shimon Ullman</i> <i>2007 Rumelhart Prize Winner</i>

4:30-5:30

Rumelhart Reception	
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5:30-7:00

Poster Session I	<i>Exhibit Hall</i>
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Friday, July 25

8:15-9:15: Plenary Talk**Regency Ballroom**

Face and Word Processing: Two Sides of the Same Brain	<i>David Plaut</i>
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9:15-9:30

Coffee Break	
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9:30-11:00: Rumelhart Symposium & 2-Track Session

Rumelhart Symposium: (Chair: Michael Tarr)	Regency Ballroom
Integrating Human & Machine Vision: In Honor of Shimon Ullman	<i>Marlene Behrmann, Christof Koch, Nikos Logothetis, Rafi Malach, Michael Tarr</i>

The Nature of Learning and Representation (Chair: Bob Berwick)	Ambassador Ballroom
Poverty of the Stimulus Revisited: Recent Challenges Reconsidered	<i>Robert Berwick & Noam Chomsky</i>
Modeling The Fan Effect Using Dynamically Structured Holographic Memory	<i>Matthew Rutledge-Taylor & Robert West</i>
Trade-off Between Capacity and Generalization in a Model of Memory	<i>Guy Tannenbaum, Yehezkel Yeshurun, & Shimon Edelman</i>
The Impact of Labels on Visual Categorisation: A Neural Network Model	<i>Valentina Gliozzi, Julien Mayor, Jon-Fan Hu, & Kim Plunkett</i>

Concepts and Categories (Chair: Brian Murphy)	Empire Room
Distinguishing Concept Categories on the Basis of Single-Participant Electrophysiological Activity	<i>Brian Murphy, Michele Dalponte, Massimo Poesio, & Lorenzo Bruzzone</i>
Categorizing Fragments of Exemplars: Experimental and Computational Results	<i>Harlan Harris</i>
Modeling Category Intuitiveness	<i>Emmanuel Pothos, Amotz Perlman, Darren Edwards, Todd Gureckis, Peter Hines, & Nick Chater</i>
Illusory Correlation as the Outcome of Experience Sampling	<i>Jerker Denrell & Gael Le Mens</i>

11:00-11:15

Coffee Break	
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11:15-12:15: 7-Track Session

Language and Cognition (Chair: Lera Boroditsky)	Regency Ballroom
Do English and Mandarin Speakers Think Differently about Time?	<i>Lera Boroditsky</i>
Perception/Action Modeling Prize: Using the Distributional Statistics of Speech Sounds for Weighting and Integrating Acoustic Cues	<i>Joseph Toscano & Bob McMurray</i>
Marr Prize: Language as a Cognitive Technology: English-Speakers Match Like Pirah When You Don't Let Them Count	<i>Michael Frank, Evelina Fedorenko, & Edward Gibson</i>

Friday, July 25**11:15-12:15: 7-Track Session (continued)**

Visual Word Recognition at Multiple Grain Sizes (Chair: Jason Zevin)	Ambassador Ballroom
Division of Labor between Semantics and Phonology in Normal and Disordered Reading Development across Languages	<i>Jianfeng Yang, Bruce McCandliss, Hua Shu, & Jason Zevin</i>
Variable Vulnerability of Words to Visual Impairment: Exploring Grain-Size Effects in Reading	<i>Giovanni Pagliuca, Padraic Monaghan, & Robert McIntosh</i>
Constraints for Computational Models of Reading: Evidence from Learning Lexical Stress	<i>Padraic Monaghan, Joanne Arciuli, & Nada Seva</i>

Cognitive Development (Chair: Aaron Buss)	Empire Room
The Emergence of Rule Use: A Dynamic Neural Field Model of the DCCS	<i>Aaron Buss & John Spencer</i>
Automatic and Voluntary Shifts of Attention in the Dimensional Change Card Sorting Task	<i>Anna Fisher</i>
Analogy-making in Children: The Importance of Processing Constraints	<i>Jean-Pierre Thibaut, Robert French, & Milena Vezneva</i>

Evaluating Judgments and Meaning (Chair: Robert Lindsey)	Diplomat Room
BLOSSOM: Best Path Length On a Semantic Self-Organizing Map	<i>Robert Lindsey, Michael Stipicevic, Vladislav Veksler, & Wayne Gray</i>
Experience with a Computer Word-Entry Method in Processing Chinese Characters by Fluent Typists	<i>Jenn-Yeu Chen & Chun-Yu Chuang</i>
v (MOLE): Testing A Heuristic Elicitation Method	<i>Matthew Welsh, Michael Lee, & Steve Begg</i>

Overcoming Misconceptions During Learning (Chair: David Trumpower)	Palladian Room
Naive Statistics: Intuitive Analysis of Variance	<i>David Trumpower & Olga Fellus</i>
An Empirical Study of Errors in Translating Natural Language into Logic	<i>Dave Barker-Plummer, Richard Cox, Robert Dale, & John Etchemendy</i>
Learning Associations that Run Counter to Biases in Learning: Overcoming Overshadowing and Learned Inattention	<i>Andrew Heckler, Jennifer Kaminski, & Vladimir Sloutsky</i>

Discussion	Blue Room
Joint Opportunities and Challenges for the Defense and Cognitive Science Communities	<i>General Peter Palmer</i>

11:15-12:15: 7-Track Session (continued)**Friday, July 25**

Higher-Order Cognition (Chair: Andres Guiral)	<i>Executive Room</i>
A Cognitive Model Testing Moral Seduction Theory: Unconscious Bias and the Role Played by Expertise	<i>Andres Guiral, Waymond Rodgers, Emiliano Ruiz, & Jose A. Gonzalo</i>
The 'Hard' Problem and Neural Correlates of Consciousness	<i>Peter Slezak</i>
Processes and Constraints in Explanatory Scientific Discovery	<i>Pat Langley & Will Bridewell</i>

12:15-1:45

Lunch (on your own)

1:45-3:15: 6-track Session

Symposium	<i>Regency Ballroom</i>
Cognitive Science and Education Research: Engaging Issues Of Social Context	<i>Organizer: Gregg Solomon; Megan Bang, Rochel Gelman, Nancy Nersessian, & Laura Schulz</i>

Language and Concepts (Chair: Thomas Shultz)	<i>Ambassador Ballroom</i>
Modeling the Characteristic-to-defining Features Shift in Concept Acquisition	<i>Thomas Shultz, Jean-Philippe Thivierge, & Kristin Laurin</i>
Two Eras in Learning Theory: Implications for Cognitively Faithful Models of Language Acquisition and Change	<i>Partha Niyogi & Robert Berwick</i>
Treebank Parsing and Knowledge of Language: A Cognitive Perspective	<i>Sandiway Fong & Robert Berwick</i>
Advances in Modeling Human Category Learning with DIVA	<i>Kenneth Kurtz</i>

Decision Making (Chair: Daniel Navarro)	<i>Empire Room</i>
A Test of the Decision-time Predictions of the 'Take the Best' Model	<i>Benjamin Schultz & Daniel Navarro</i>
A Bayesian Model of How People Search Online Consumer Reviews	<i>Stelios Lelis & Andrew Howes</i>
From Reduction Back to Higher Levels	<i>William Bechtel & Adele Abrahamsen</i>
Stopping Rules and Memory Search Termination Decisions	<i>J. Isaiah Harbison, Eddy J. Davelaar, & Michael R. Dougherty</i>

Problem Solving (Chair: Julie Booth)	<i>Diplomat Room</i>
Key Misconceptions in Algebraic Problem Solving	<i>Julie Booth & Kenneth Koedinger</i>
The Effects of Disease Category on Diagnostic Problem Solving in Mammography	<i>Roger Azevedo, Gwyneth Lewis, Roberta Klatzky, & Emily Siler</i>
The Effects of Peer Information on Problem-Solving in a Networked Group	<i>Thomas Wisdom, Xianfeng Song, & Robert Goldstone</i>
Cognition & Student Learning Prize: Worked Examples and Tutored Problem Solving: Redundant or Synergistic Forms of Support?	<i>Ron Salden, Vincent Alevan, Alexander Renkl, & Rolf Schwonke</i>

1:45-3:15: 6-track Session (continued)

Friday, July 25

Language I (Chair: Nathaniel Smith)		Palladian Room
Optimal Processing Times in Reading: A Formal Model and Empirical Investigation	<i>Nathaniel Smith & Roger Levy</i>	
The Advantage of the Ungrammatical	<i>Laura Staum Casasanto & Ivan A. Sag</i>	
Assessing the Structure of Verbal Protocols	<i>Stacey Todaro, Joseph P. Magliano, Keith Millis, Danielle McNamara, & Christopher Kurby</i>	
Are Three Words All We Need? Recognizing Genre at the Sub-Sentential Level	<i>Philip McCarthy, Stephen W. Briner, John C. Myers, Arthur C. Graesser, & Danielle S. McNamara</i>	

Processes of Attention and Control (Chair: Sunny Khemlani)		Blue Room
Sylogistic Reasoning with Generic Premises: The Generic Overgeneralization Effect	<i>Sangeet Khemlani, Sarah-Jane Leslie, & Sam Glucksberg</i>	
Opponent Process Control in Linked, Dynamical Agents	<i>Ronnie Ward & Robert Ward</i>	
A Computational Model of the Visual Oddity Task	<i>Andrew Lovett, Kate Lockwood, & Kenneth Forbus</i>	
Counting Sheep is a Good Way to get to Sleep, but The Occasional Aardvark Will Wake You Up: How a Salient Event Improves Performance	<i>Bella Veksler & Wayne Gray</i>	

3:15-3:30

Coffee Break	
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3:30-5:00: 30th Anniversary Symposium & 2-Track Session

30th Anniversary Symposium I: Trajectories of Cognitive Science Perspectives (Chair: Lawrence Barsalou)		Regency Ballroom
Cognitive Architectures	<i>John R. Anderson</i>	
Emergentist Approaches	<i>James L. McClelland</i>	
Developmental Systems	<i>Linda B. Smith</i>	
Cognitive Ecology	<i>Edwin Hutchins</i>	
Grounded Cognition	<i>Lawrence W. Barsalou</i>	

Semantic Interference (Chair: Leendert van Maanen)		Ambassador Ballroom
The Picture-Word Interference Effect is a Stroop Effect After All	<i>Leendert Van Maanen & Hedderik Van Rijn</i>	
Priming and Lexical Interference in Infancy	<i>Suzy Styles, Natalia Arias-Trejo, & Kim Plunkett</i>	
On the Persistence of Structural Priming: Mechanisms of Decay and Influence of Word-Forms	<i>Gaurav Malhotra, Martin Pickering, Holly Branigan, & James Bednar</i>	
Effect of Global Context on Homophone Ambiguity Resolution	<i>Daniel Mirman, James Magnuson, Ted Strauss, & James Dixon</i>	

Friday, July 25**3:30-5:00: 30th Anniversary Symposium & 2-Track Session (continued)**

Children's Understanding of Conceptual Primitives (Chair: John Opfer)	<i>Empire Room</i>
Representational Change and Numerical Estimation: Effect of Progressive Alignment on the Breadth of Transfer	<i>Clarissa Thompson & John Opfer</i>
Timing of Adults' Utterances and Interpretation of Word Meanings in a Discrepant Labeling Situation	<i>Tetsuya Yasuda & Harumi Kobayashi</i>
The Structural Alignment and Comparison of Events in Verb Acquisition	<i>Jane Childers</i>
Will it Float? How Invariance Affects Children's Understanding of Object Density	<i>Heidi Kloos</i>

5:00-7:00

Poster Session II	<i>Exhibit Hall</i>
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Saturday, July 26

8:00-9:15

Cognitive Science Society Business Meeting	
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9:15-9:30

Coffee Break	
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9:30-11:00: 6-Track Session

Symposium	Regency Ballroom
Understanding Why: The Cognitive Science of Explanation	<i>Organizer: Tania Lombrozo; Weisberg, Strevens, Trout, & Sloman</i>

Symposium	Ambassador Ballroom
Enhancing Learning Using Adaptive Computerized Tutoring in K-12 Settings	<i>Organizer: Carol O'Donnell; Gholson, Biswas, Ward, Siler</i>

Computational Approaches to Language Learning (Chair: Julian Mayor)	Empire Room
Learning to Associate Object Categories and Label Categories: A Self-Organising Model	<i>Julien Mayor & Kim Plunkett</i>
Language Modeling Prize: A Probabilistic Incremental Model of Word Learning in the Presence of Referential Uncertainty	<i>Afsaneh Fazly, Afra Alishahi, & Suzanne Stevenson</i>
A Connectionist Simulation of Structural Rule Learning in Language Acquisition	<i>Aarre Laakso & Paco Calvo</i>
Mutual Exclusivity in Cross-Situational Statistical Learning	<i>Daniel Yurovsky & Chen Yu</i>

Language II (Chair: Meredith Brown)	Diplomat Room
Syntax and Discourse Constraints Interact at the Level of Structural Representation: Evidence from On-line Sentence Comprehension	<i>Meredith Brown, Virginia Savova, & Edward Gibson</i>
Language Abstraction: Consolidation of Language Structure During Sleep	<i>Michelle St. Clair & Padraic Monaghan</i>
Generalization and Systematicity in Echo State Networks: The Importance of Analogical Representations	<i>Stefan Frank & Michal Čerňanský</i>
Mechanisms of Verb Inflection: Regular vs. Irregular or Easy vs. Hard?	<i>Gert Westermann, Vanja Kovic, & Nicolas Ruh</i>

Saturday, July 26

9:30-11:00: 6-Track Session (continued)

Models of Conceptual Structure (Chair: Lei Shi)		<i>Palladian Room</i>
Performing Bayesian Inference with Exemplar Models	<i>Lei Shi, Naomi Feldman, & Thomas Griffiths</i>	
Learning a Hierarchical Organization of Categories	<i>Steven Verheyen, Eef Ameel, Timothy Rogers, & Gert Storms</i>	
Modeling Typicality: Extending the Prototype View	<i>Wouter Voorspoels, Wolf Vanpaemel, & Gert Storms</i>	
Principles of Generalization for Learning Sequential Structure in Language	<i>Michael Frank, Denise Ichinco, & Joshua Tenenbaum</i>	

Problem Solving (Chair: Ming Ming Chiu)		<i>Blue Room</i>
Micro-Creativity during Group Problem Solving: Evaluations, Wrong Ideas, Justifications, and Rudeness	<i>Ming Ming Chiu</i>	
Upsides and Downsides of Gesturing in Problem Solving	<i>Patrick Cushen & Jennifer Wiley</i>	
Compound Analogical Design, Or How to Make a Surfboard Disappear	<i>Michael Helms, Swaroop Vattam, & Ashok Goel</i>	
Social Science: Complex Cognition in Early AIDS Research	<i>Katherine Lippa & Valerie Shalin</i>	

11:00-11:15

Coffee Break

11:15-12:15: 7-Track Session

Language Comprehension and Processing (Chair: Alexia Toskos Dils)		<i>Regency Ballroom</i>
Motion Language Shapes People's Interpretation of Unrelated Ambiguous Figures	<i>Alexia Toskos Dils & Lera Boroditsky</i>	
Does Social Information Influence Sentence Processing?	<i>Laura Staum Casasanto</i>	
The Role of Cognitive Functions in Communication: The Case of Traumatic Brain Injury	<i>Romina Angeleri, Francesca Marina Bosco, Katuscia Sacco, Marina Zettin, Livia Colle, & Bruno Giuseppe Bara</i>	

Practice, Practice, Practice (Chair: Aryn Pyke)		<i>Ambassador Ballroom</i>
Why Do The Math? The Impact of Calculator Use on Participants' Actual and Perceived Retention of Arithmetic Facts	<i>Aryn Pyke, Jo-Anne LeFevre, & Ruby Isaacs</i>	
To Understand your Understanding, One must Understand what Understanding Means	<i>Jennifer Wiley, Thomas D. Griffin, & Keith W. Thiede</i>	
The Role of Deliberate Practice in Expertise: Necessary but Not Sufficient	<i>Fernand Gobet</i>	

Saturday, July 26

11:15-12:15: 7-Track Session (continued)

Reasoning (Chair: Thomas Shultz)		Empire Room
A Computational Developmental Model of the Implicit False Belief Task	<i>Vincent G. Berthiaume, Kristine H. Onishi, & Thomas R. Shultz</i>	
The Strategy Behind Belief Revision: A Matter of Judging Probability or the Use of Mental Models?	<i>Ann Wolf & Markus Knauff</i>	
Training a Bayesian: Three-and-a-half-year-olds' Reasoning about Ambiguous Evidence	<i>Elizabeth Baraff Bonawitz, Adina Fischer, & Laura Schulz</i>	

Mental and Spatial Representations (Chair: Thomas Hills)		Diplomat Room
Evidence for Generalized Cognitive Search Processes at Multiple Levels in a Hierarchical Problem Solving Task	<i>Thomas Hills, Robert Goldstone, & Peter Todd</i>	
The Role of Internal Information in the Spatial Learning Task through Path Integration	<i>Kayoko Ohtsu</i>	
Situated and Prospective Path Planning: Route Choice in an Urban Environment	<i>Jan Wiener, Thora Tenbrink, Jakob Henschel, & Christoph H'scher</i>	

Higher-Order Cognition (Chair: Janet Hui-wen Hsiao)		Palladian Room
Hemispheric Asymmetry in Visual Perception Arises from Differential Encoding beyond the Sensory Level	<i>Janet Hui-wen Hsiao, Reza Shahbazi, & Garrison Cottrell</i>	
Can Relationality be Distinguished from Abstractness?	<i>Jennifer Asmuth & Dedre Gentner</i>	
Tracks in the Mind: Differential Entrenchment of Common and Rare Liturgical and Everyday Multiword Phrases in Religious and Secular Hebrew Speakers	<i>Jonathan Berant, Catherine Caldwell-Harris, & Shimon Edelman</i>	

The Nature of Human Capacity Limitations (Chair: Brad Love)		Blue Room
Predicting Information Needs: Adaptive Display in Dynamic Environments	<i>Bradley Love, Matt Jones, Marc Tomlinson, & Michael Howe</i>	
Decoupling of Intuitions and Performance in the Use of Complex Visual Displays	<i>Mary Hegarty, Harvey S. Smallman, & Andrew T. Stull</i>	
Efficient Coding in Visual Short-Term Memory: Evidence for an Information-Limited Capacity	<i>Timothy F. Brady, Talia Konkle, & George A. Alvarez</i>	

Culture, Cognition, and Mathematics (Chair: Lindsey Richland)		Executive Room
Gesturing to Promote Higher-Order Thinking: Cross-Cultural Differences	<i>Lindsey Richland</i>	
Cultural Mixture Modeling: Identifying Cultural Consensus (and Disagreement) using Finite Mixture Modeling	<i>Shane Mueller & Elizabeth Veinott</i>	
Extending the Limits of Counting in Oceania: Adapting Tools for Numerical Cognition to Cultural Needs	<i>Andrea Bender & Sieghard Beller</i>	

Saturday, July 26

12:15-1:45

Lunch (on your own)

1:45-3:15: 6-track Session

Symposium <i>Regency Ballroom</i>	
Rules and Exemplars in Language Acquisition	<i>Organizer: Rens Bod; Daniel Freudenthal, Carla Hudson Kam, & Alexander Clark</i>

Symposium <i>Ambassador Ballroom</i>	
Integrating Cognitive Architectures with External Environments: Approaches and Contributions to Validation	<i>Organizer: Glenn Gunzelmann: Art Pope, Robert Wray, Greg Trafton, & Bradley Best</i>

Analogy and Reasoning (Chair: Iris van Rooij) <i>Empire Room</i>	
Identifying Sources of Intractability in Cognitive Models: An Illustration using Analogical Structure Mapping	<i>Iris van Rooij, Patricia Evans, Moritz Muller, Jason Gedge, & Todd Wareham</i>
Similarity between Propositional Elements does not always Determine Judgments of Analogical Relatedness	<i>Ricardo Adrian Minervino, Nicolas Oberholzer, & Maximo Trench</i>
Mapping and Inference in Analogical Problem Solving: As Much as Needed or as Much as Possible?	<i>Eva Wiese, Uwe Konerding, & Ute Schmid</i>
Human Logic in Spatial Reasoning	<i>Marco Ragni</i>

Using Multiple Information Sources in Language Planning and Understanding (Chair: Austin Frank) <i>Diplomat Room</i>	
Speaking Rationally: Uniform Information Density as an Optimal Strategy for Language Production	<i>Austin F. Frank & T. Florian Jaeger</i>
What Tunes Accessibility of Referring Expressions in Task-Related Dialogue?	<i>Ellen Bard, Robin Hill, & Mary Ellen Foster</i>
Anticipatory Eye Movements Mediated by Word Order Constraints	<i>Paul Engelhardt, Ming Xiang, & Fernanda Ferreira</i>
Speakers Communicate Their Perceptual-Motor Experience to Listeners Nonverbally	<i>Susan Cook & Michael Tanenhaus</i>

The Use (and lack thereof) of Visual and Verbal Information (Chair: Gary Lupyan) <i>Palladian Room</i>	
Now You See It, Now You Don't: Verbal but not Visual Cues Facilitate Visual Object Detection	<i>Gary Lupyan & Michael Spivey</i>
Musical Change Deafness: The Inability to Detect Change in a Non-speech Auditory Domain	<i>Kat R. Agres & Carol L. Krumhansl</i>
Picture Perception and the Two Visual Subsystems	<i>Bence Nanay</i>
Action Anticipation and Interference: A Test of Prospective Gaze	<i>Erin Cannon & Amanda Woodward</i>

1:45-3:15: 6-track Session (continued)

Saturday, July 26

Actions and Explanations (Chair: Lisa Oakes)		Blue Room
How Outcomes of Actions Influence Infants' Representation of those Actions		<i>Lisa Oakes, Sammy Perone, & Kelly Madole</i>
Thinking by Doing and Doing by Thinking: A Taxonomy of Actions		<i>Hansjoerg Neth & Thomas Mueller</i>
The Pragmatics of Explanation		<i>Seth Chin-Parker & Alexandra Bradner</i>
Who Framed Roger Rabbit: The Effect of Legal Role and Frame on the Outcome of Civil Disputes		<i>Victoria Gilliland, John Dunn, & Daniel Navarro</i>

3:15-3:30

Coffee Break	
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3:30-5:00: 30th Anniversary Symposium & 2-Track Session

30th Anniversary Symposium II: Trajectories of Cognitive Science Disciplines (Chair: Lawrence Barsalou)		Regency Ballroom
Psychology		<i>Dedre Gentner</i>
Artificial Intelligence		<i>Kenneth D. Forbus</i>
Philosophy		<i>William Bechtel</i>
Linguistics		<i>Elissa L. Newport</i>
Anthropology		<i>Douglas L. Medin</i>

Approaches to Language Learning (Chair: Luca Onnis)		Ambassador Ballroom
Variation Sets Facilitate Artificial Language Learning		<i>Luca Onnis, Heidi Waterfall, & Shimon Edelman</i>
Grounding Word Learning in Multimodal Sensorimotor Interaction		<i>Chen Yu, Linda Smith, & Alfredo Pereira</i>
What You Learn is What You See: Using Eye Movements to Study Infant Cross-Situational Word Learning		<i>Chen Yu & Linda Smith</i>
How Features Create Knowledge of Kinds		<i>Shohei Hidaka & Linda Smith</i>

Modeling Cognition (Chair: Fermin Moscoso del Prado Martin)		Empire Room
A Fully Analytical Model of the Visual Lexical Decision Task		<i>Fermin Moscoso del Prado Martin</i>
A Rational Analysis of Confirmation with Deterministic Hypotheses		<i>Joseph Austerweil & Thomas Griffiths</i>
Fluency and Psychological Distance		<i>Danny Oppenheimer, Anuj Shah, & Adam Alter</i>
Optimal Predictions in Everyday Cognition: The Wisdom of Individuals or Crowds?		<i>Michael Mozer, Harold Pashler, & Hadjar Homaei</i>

5:00-7:00

Poster Session III		Exhibit Hall
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