

**Thursday, August 12, 8:45 a.m. – 12:00 noon: Plenary Events and Tracks A, B, C and D.**

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8:45 -- 9:15 **Opening Remarks and Award Ceremony** Oregon Ballrooms 202-203  
*Richard Catrambone, Stellan Ohlsson, and Members of the CogSci2010 Committees and Volunteer Groups*

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9:15 – 10:15 **Keynote Address** Oregon Ballrooms 202-203  
A Hierarchical Competing Systems Model of the Emergence and Early Development of Executive Function  
*Philip Zelazo, University of Minnesota. Introducer: Thomas Shultz*

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10:15 – 10:30 **Refreshment Break** Mezzanine floor

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10:30 – 12:00 **Parallel Sessions Tracks A, B, C and D** (Tracks E, F, G and H are shown on next page).

<b>Foundations: Steps to Unification</b> (Track A, Oregon Ballroom 201)	<b>Language: Novel Approaches</b> (Track B, Oregon Ballroom 204)	<b>Induction: Basic Processes</b> (Track C, Room B113-114)	<b>Cognitive Architecture: Central Processing</b> (Track D, Room B115-116)
1196 - Wild Systems Theory: Overcoming the Computational-Ecological Divide - <i>Jerome S Jordan</i>	719 - Likability-Based Genres: Analysis and Evaluation of the Netflix Dataset - <i>Andrew Olney</i>	661 - A Neural Model of Rule Generation in Inductive Reasoning - <i>Daniel Rasmussen and Chris Eliasmith</i>	1011 - An Analysis of the Working Memory Capacity Paradox - <i>Eddy J Davelaar</i>
1153 - Framing and Resource Activation: Bridging the Cognitive-Situative Divide Using a Dynamic Unit of Analysis - <i>Luke Conlin, Ayush Gupta and David Hammer</i>	1188 - Constructing Typing-Time Corpora: A New Way to Answer Old Questions - <i>Uriel Cohen Priva</i>	717 - The Effects of Domain and Type of Knowledge on Category-Based Inductive Reasoning – <i>Aimée Kay Crisp-Bright and Aidan Feeney</i>	423 - Working Memory Load Affects Device-Specific But Not Task-Specific Error Rates - <i>Maartje Ament, Anna Cox, Ann Blandford and Duncan Brumby</i>
731 - Modeling Personality and Individual Differences: The Approach-Avoid-Conflict Triad - <i>Karl Fua, William Revelle and Andrew Ortony</i>	605 - Large-Scale Acquisition of Feature-Based Conceptual Representations from Textual Corpora - <i>Barry Devereux, Nicholas Pilkington, Thierry Poibeau and Anna Korhonen</i>	699 - Learning Hypothesis Spaces and Dimensions Through Concept Learning - <i>Joseph Austerweil and Thomas Griffiths</i>	488 – An Examination of the ERP Correlates of Recognition Memory Using State-Trace Analysis – <i>Emily Freeman, Simon Dennis and John Dunn</i>
1102 - Understanding the Brain as an Endogenously Active Mechanism - <i>William Bechtel and Adele Abrahamson</i>	392 - Are Random Representations Accurate Approximations of Lexical Semantics? - <i>Brendan Johns and Michael Jones</i>	350 - The Role of 'Explaining Away' in Human Abstract Rule Induction – <i>Coiln Dawson and LouAnn Gerken</i>	695 – Modeling Change in Recognition Bias with the Progression of Alzheimer's – <i>James Pooley</i>

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**Thursday, August 12, 10:30 a.m. – 12:00 noon, Parallel Sessions Tracks E, F, G and H.\***

<b>Social Cognition: Alignment in Dialogue</b> (Track E, Room B110-112)	<b>Education: Knowledge and Strategies</b> (Track F, Room A107-108)	<b>Decision Making: Sequential Choices</b> (Track G, Room A105)	<b>Symposium: Success in the Theory of Mind</b> (Track H, Room A106)
900 - Context, Syntactic Priming and Referential Form in an Interactive Dialogue Task: Implications for Models of Alignment in Dialogue - <i>Kathleen Carbary, Ellen Frohning and Michael Tanenhaus</i>	1157 – Connecting the Visible to the Invisible: Helping Middle School Students Understand Complex Ecosystem Processes - <i>Sameer Honwad, Cindy Hmelo-Silver, Rebecca Jordan, Catherine Eberbach, Sreven Gray, Suparna Sinha, Ashok Goel, Swaroop Vattam, Spender Rugaber and David Joyner</i>	593 – Are People Successful at Learning Sequential Decisions on a Perceptual Matching Task? - <i>Reiko Yakushiji and Robert Jacobs</i>	Peter wants to get the beer he left in the refrigerator. Predicting Peter's behavior correctly is usually an easy matter, but understanding how people correctly predict his behavior with ease is a much more difficult task. Thirty years of research on theory of mind has focused on the interesting few cases in which fail to reason about mental states correctly. However, it is perhaps more interesting to explore the common, reliable cases of successful theory of mind reasoning. This symposium presents cutting-edge research using several different experimental approaches to studying the processes involved in successful instances of theory of reasoning, as well as the processes involved in developing the ability to succeed consistently across the life span. In this symposium, research employing a variety of measures – with toddlers, preschoolers, school-age children, and adults – takes aim at current debates central to the field and delivers weighty results.
202 - Converging Hands or Converging Minds? - <i>Lisette Mol, Emiel Kraemer, Alfons Maes and Marc Swerts</i>	630 – Response Times and Misconception-Like Responses to Science Questions - <i>Andrew Heckler, Thomas Scaife and Eleanor Sayre</i>	1073 - The Impact of Perceptual Aliasing on Exploration and Learning in a Dynamic Decision Making Task - <i>Lisa Zaval and Todd Gureckis</i>	
286 - Vocal Interaction Dynamics of Children With and Without Autism <i>Anne S Warlaumont, D Kimbrough Oller, Rick Dale, Jeffrey A Richards, Jill Gilkerson and Dongxin Xu</i>	582 – Effects of Problem Context on Strategy Use Within Functional Thinking - <i>Katherine McElDoon, Caroline Cochrane-Braswell and Bethany Rittle-Johnson</i>	984 – Human Foraging Behavior: A Virtual Reality Investigation on Area Restricted Search in Humans - <i>Christopher Kalff, Thomas Hills and Jan M Wiener</i>	
868 - Virtually Accommodating: Speech Rate Accommodation to a Virtual Interlocutor <i>Laura Stem Casasanto, Kyle Jasmin and Daniel Casasanto</i>	805 – The Application of the Less-is-More Hypothesis in Foreign Language Learning - <i>Simone Chin and Alan Kersten</i>	538 – Learning in Multiple-Cue Judgment tasks - <i>Bettina von Helversen and Joerg Rieskamp</i>	

\*Plenary Events and Tracks A, B, C and D are on the previous page.

*Rose Scott, Adam Petrashek, Noah Goodman, Adam Cohen, Rebecca Saxe, Renee Baillargeon, Ori Friedman and Tamsin German*

**Thursday, August 12, 12:00 noon – 1:30 p.m., Parallel Sessions Tracks A, B, C and D\***

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<b>Foundations: Representation</b> (Track A, Oregon Ballroom 201)	<b>Language: Role of Syntax</b> (Track B, Oregon Ballroom 204)	<b>Induction: Facilitating Factors</b> (Track C, Room B113-114)	<b>Cognitive Architecture: Encoding &amp; Retrieval</b> (Track D, Room B115-116)
715 – Disentangling Representation from Conceptualization – <i>Nancy Salay</i>	992 – The Avoidance of Ambiguity During Conversation: More Than Mere Priming or Mimicry? – <i>Jennifer M Roche, Rick Dale and Roger J Kreuz</i>	923 – The Role of Linguistic Labels in Categorization – <i>Wei (Sophia) Deng and Vladimir Sloutsky</i>	599 – SARKAE: Modeling the Co-Evolution of Event Memory and Knowledge – <i>Angela Nelson and Richard Shiffrin</i>
1120 – Thought, Language and Mental Representation – <i>Jonothan Trigg and Michael Kalish</i>	973 – Syntax Drives Phonological Choice, Even Independently of Word Choice - <i>Marie Nilsenova and Marije van Amelsvoort</i>	685 – The Price is Right: A High Information Access Cost Facilitates Category Learning – <i>Michael Wood, Michael Fry and Mark Blair</i>	297 – Looking at Nothing Indicates Memory Search in Multiattribute Decision Making – <i>Frank Renkewitz and Georg Jahn</i>
1046 – What is Domain Specificity (and Why Does It Matter)? – <i>Muhammad Ali Khalidi</i>	515 – Corpus Evidence for Age Effects on Priming in Child Language – <i>Jeffrey Gerard, Frank Keller and Themis Palpanas</i>	629 – Effects of Generative and Discriminative Learning on Use of Category Variability – <i>Anne Hsu and Thomas Griffiths</i>	569 – Motor Simulations in a Memory Task: Evidence from Rock Climbing – <i>Giovanni Pezzulo, Laura Barca, Alessandro Lamberti Bocconi and Anna M Borghi</i>
819 – Cognition for Action: An Architectural Account for “Grounded Interaction” – <i>Anthony Harrison and J. Gregory Trafton</i>	876 – Understanding Acceptability Judgments: Additivity and Working Memory Effects – <i>Laura Staum Casasanto, Philip Hofmeister and Ivan Sag</i>	1207 – Category Learning through Active Sampling – <i>Doug Markant and Todd Gureckis</i>	

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\*Tracks E, F, G and H are on the next page.

**Thursday, August 12, 12:00 noon – 1:30 p.m., Parallel Sessions Tracks E, F, G and H\***

**Social Cognition:  
Joint Attention**

(Track E, Room B110-112)

789 – Enactive Social Cognition -  
*Tobias Schlicht*

1103 – Building a Model of Infant  
Social Interaction – *Joshua Lewis,  
Gedeon Deák, Hector Jasso and  
Jochen Triesch*

1159 – The Emergence of  
Referential Gaze and Perspective-  
Taking in Infants – *R Joanne Jao,  
Marybel Robledo and Gedeon O  
Deák*

428 – Joint Perception: Gaze and  
Beliefs About Social Context –  
*Daniel Richardson, Chris Street and  
Joanne Tan*

**Education:  
Meta-Cognitive Aspects**

(Track F, Room A107-108)

230 – Teaching Students Self-  
Assessment and Task-Selection  
Skills with Video-Based Modeling  
Examples – *Tamara van Gog, Danny  
Kostons and Fred Paas*

471 – Confidence Without  
Competence in the Evaluation of  
Scientific Claims – *Andrew Shtulman*

696 – Individual Differences as  
Predictors of Learning and  
Engagement – *Sidney D’Mello,  
Claire Williams, Patrick Hays and  
Andrew Olney*

932 – Do Tutor’s Content Knowledge  
and Beliefs About Learning Influence  
Their Assessment of Tutee’s  
Understanding? – *Stephanie  
Herppich, Jörg Wittwer, Matthias  
Nückles and Alexander Renkl*

**Decision Making:  
Risk**

(Track G, Room A105)

112 – Risk Attitude in Decision  
Making: A Clash of Three  
Approaches – *Eldad Yechiam and  
Eyal Ert*

416 – Making Assessments While  
Taking Sequential Risks – *Avishai  
Wershvale and Timothy Pleskac*

926 – Testing Two Explanations for  
the Disjunction Effect in Prisoner’s  
Dilemma Games: Complexity and  
Quasi-Magical Thinking – *Evgenia  
Hristova and Maurice Grinberg*

837 – Mentalizing in Games: A  
Subtractive Behavioral Study of  
Prisoner’s Dilemma – *Antonio Napoli  
and Danilo Fum*

**Symposium:  
Prospective Perception**

(Track H, Room A106)

Recent data indicate that perception is inherently prospective (i.e., anticipatory). The purpose of this symposium is to examine the research of three scholars who approach prospective perception from three different theoretical perspectives: the Theory of Event Coding, the Economy of Action theory, and the Ecological Theory. The panelists will examine differences among these theories and address the extent to which prospective perception research affords a means of potentially integrate these three theories.

*Jerome S Jordan, Jessica Witt and  
Michael Riley*

\*Tracks A, B, C and D are on the previous page.

**Thursday, August 12, 1:30 – 3:00 p.m., Plenary Events and Parallel Sessions Tracks A, B, C and D\***

**Conceptual Spaces:  
Examples and Methods**

(Track A, Oregon Ballroom 201)

211 – Constructing Spatial Concepts from Universal Primitives – *Yang Xu and Charles Kemp*

894 – Replicating Color Term Universals Through Human Iterated Learning – *Jing Xu, Thomas Griffiths and Mike Dowman*

687 – Similarity Judgments Reflect Both Language and Cross-Language Tendencies: Evidence From Two Semantic Domains – *Naveen Khetarpal, Asifa Majid, Barbara Malt, Steven Sloman and Terry Regier*

**Language:  
Speech Perception**

(Track B, Oregon Ballroom 204)

1123 – Adults' Self-Directed Learning of an Artificial Lexicon: The Dynamics of Neighborhood Reorganization – *Neil Bardhan, Richard Aslin and Michael Tanenhaus*

697 – Perceptual Advantage from Generalized Linguistic Knowledge - *Bozena Pajak*

637 – A Rational Account of Perceptual Compensation for Co-Articulation – *Morgan Sonderegger and Alan Yu*

601 – Effects of Pragmatic Inference on Phonetic Category Perception – *Hannah Rohde and Marc Ettliger*

**Induction:  
Differential Factors**

(Track C, Room B113-114)

378 – Individual Differences in Attention During Category Learning – *Michael Lee and Ruud Wetzels*

830 – Categorization, Deference and Cognitive Style – *Nick Braisby and Sharon Hanlon*

386 – When Comparison Helps: The Role of Language, Prior Knowledge and Similarity in Categorizing Novel Objects – *Clare Sims and Eliana Colunga*

1023 – Category Learning and Adaptive Benefits of Aging – *Angela Merritt, Linnea Karlsson and Edward Cokely*

**Cognitive Architecture:  
Higher-Order Structure**

(Track D, Room B115-116)

277 - Encoding Higher-Order Structure in Visual Working Memory: A Probabilistic Model  
*Timothy Brady and Joshua Tenenbaum*

163 – Expertise in Visual Art is Associated with Altered Perceptual Strategies Within and Across Domains: Evidence from Eye Tracking – *Kuba Glazek and Robert Weisberg*

152 – Melody Recognition: Effects of Articulation Format – *Stephen Wee Hun Lim and Winston D Goh*

1025 – On the Relationship Between Entropy and Meaning in Music: An Exploration with Recurrent Neural Networks – *Greg Cox*

3:00 – 4:00 **Rumelhart Prize Lecture** Oregon Ballrooms 202-203  
Emergence of Semantic Structure from Experience  
*James McClelland, Stanford University* *Introducer: Susan Carey*

4:00 – 5:00 **Rumelhart Reception** Holladay Lobby on the Mezzanine Floor

5:00 – 6:30 **Poster Session 1** Exhibit Hall A Light hors d'oeuvres and cash bar will be available.

\*Tracks E, F, G and H are on the next page.

**Thursday, August 12, 1:30 – 3:00 p.m., Parallel Sessions Tracks E, F, G and H.\***

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**Social Cognition:  
Human-Robot Interaction**

(Track E, Room B110-112)

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519 – Simulating Cognitive Coping Strategies for Intelligent Support Agents – *Aziz Ab Aziz, Jan Treur and Michel Klein*

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771 – An Adaptive Integrative Ambient Agent Model to Intervene in the Dynamics of Beliefs and Emotions – *Zulfiqar Ali Memon and Jan Truer*

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155 – Proposing Artificial Subtle Expressions as an Intuitive Notification Methodology for Artificial Agents' Internal States – *Takanori Komatsu, Seiji Yamada, Kazuki Kobayashi, Kotaro Funakoshi and Mikio Nakano*

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611 – Experiments for Assessing Floating Reinstatement in Argument-Based Reasoning – *Iyad Rahwan, Jean-Francois Bonnefon, Mohammed Iqbal Madakkatel, Ruqiyabi Naz Awan and Sherief Abdallah*

**Education:  
Transfer**

(Track F, Room A107-108)

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1098 – Optimizing Learning Environments: An Individual Differences Approach to Learning and Transfer – *Daniel Belenky and Timothy Nokes*

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836 – The Effects of Similarity and Individual Differences on Comparison and Transfer – *Samuel Day, Robert L Goldstone and Thomas Hills*

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1017 – Seeing Language Learning Inside the Math: Cognitive Analysis Yields Transfer – *Kenneth Koedinger and Elizabeth McLaughlin*

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714 – Initial Evidence of the Effects of Linguistic Framing on Transfer – *Randi A Engle, Adam Mendelson and Phi D Nguyen*

**Decision Making:  
Non-Optimality**

(Track G, Room A105)

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937 – Impatience and Intertemporal Egoism – *Daniel Bartels and Oleg Urminsky*

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245 – WIN!! vs. win: Impact of “Outcome” Salience on Illusion of Control – *Stefania Mereu and Alejandro Lieras*

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1105 – Signs of Non-Linearity in Base-Rate Neglect – *Christopher Erb and Heidi Kloos*

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1126 – Mathematically Modeling Anchoring Effects – *Jessico Choplin and Mark Tawney*

**Symposium:  
The Philosophy of Affective Neuroscience**

(Track H, Room A106)

This panel showcases the interdisciplinary cutting edge innovations of the cognitive sciences. It is the unique meeting of the founder of Affective Neuroscience with an interdisciplinary set of scholars who follow the implications of this work through the philosophy of psychology, the philosophy of Self, and Ethics.

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*Rami Gabriel, Jaak Panksepp, Stephen Asma and Thomas Greif*

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\*Plenary events and Tracks A, B, C and D are on the previous page.

**Friday, August 13, 8:45 a.m. – 2:00 p.m.: Plenary Events and Tracks A, B, C and D.**

8:45 – 9:45 **Plenary Address** Oregon Ballrooms 202-203  
 Accelerated Learning through Adaptive, Data-Driven Instructional Design  
*Marsha Lovett, Carnegie-Mellon University. Introducer: Kenneth Koedinger*

9:45 – 10:00 **Refreshment Break** Mezzanine floor

<div style="border: 1px solid black; padding: 5px; width: fit-content;"> <i>Abstracts on          "Highlights"          page</i> </div>	<p>10:00 – 11:30 <b>Rumelhart Symposium</b> Ballrooms 202-203          Graded, Distributive and Interactive: How Parallel Distributed Processing Has Influenced Cognitive Science  <i>Timothy Rogers, Bruce Hayes, Nikolas Kriegeskort and Michael Spivey</i></p>	<p><b>Invited Symposium 1</b> Ballroom 201          Abductive Reasoning: Inferring Explanations  <i>Paul Thagard, Jerry Hobbs, Tania Lambrozo and Lorenzo Magnani</i></p>	<p><b>Invited Symposium 2</b> Ballroom 204          Balancing Internal and External Cognition: A Learning Process  <i>Niels Taatgen, Wai-Tat Fu, Andrew Howes and Kenneth Koedinger</i></p>
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11:30 – 12:30 **Cognitive Science Society Business Meeting** Oregon Ballrooms 202-203

12:30 – 2:00 **Parallel Sessions** Tracks A, B, C and D. (Tracks E, F, G and H are shown on next page.)

<b>Conceptual Spaces: Processes</b> (Track A, Oregon Ballroom 201)	<b>Language: Impact on Imagery</b> (Track B, Oregon Ballroom 204)	<b>Causal Inference: Statistical Assumptions</b> (Track C, Room B113-114)	<b>Cognitive Architecture: Cost &amp; Control</b> (Track D, Room B115-116)
1119 – Beyond Boolean Logic: Exploring Representation Languages for Learning Complex Concepts – <i>Steven Piantadosi, Joshua Tenenbaum and Noah Goodman</i>	972 – The Evocative Power of Words: Activation of Visual Information by Verbal and Nonverbal Means – <i>Gary Lupyán and Sharon Thompson-Schill</i>	338 – Connecting Causal Events: Learning Causal Structures through Repeated Interventions Over time – <i>Benjamin Rottman and Frank Keil</i>	781 – Modeling Strategies in Stroop with a General Architecture of Executive Control – <i>Tomasz Smoleń and Adam Chuderski</i>
600 – Encoding Sequential Information in Vector Space Models of Semantics: Comparing Holographic Reduced Representation and Random Permutation – <i>Gabriel Recchia, Michael Jones, Magnus Sahlgren and Pentti Kanerva</i>	1018 – Perceptual Simulations of Temporal Uses of “in” and “on” in First and Second Language Processing – <i>Luca Onnis, Daniel Jackson and Michel Spivey</i>	590 – The Induction of Hidden Causes: Causal Mediation and Violations of Independent Causal Influence – <i>Christopher Carroll and Patricia Cheng</i>	875 – Modeling the Correlation Between Two Putative Inhibition Tasks: An Analytic Approach – <i>Eddy Davelaar and Richard Cooper</i>
1201 – Learning and Generalization of Abstract Semantic Relations: Preliminary Investigation of Bayesian Approaches – <i>Dawn Chen, Hongjing Lu and Keith Holyoak</i>	1190 – A Motion Aftereffect from Literal and Metaphorical Motion Language: Individual Differences – <i>Alexia Toskos Dils and Lera Boroditsky</i>	674 – Edge Replacement and Non-Independence in Causation – <i>David Buchanan, Joshua Tenenbaum and David Sobel</i>	215 – Estimation of Trade-Off between Costs of Preprocessing and Primary Processing – <i>Akihiro Maehigashi and Kazuhisa Miwa</i>
953 – You Can’t Wear a Coat Rack: A Binding Framework to Avoid Illusory feature Migrations in Perceptually Grounded Semantic Models – <i>Michael Jones and Gabriel Recchia</i>	585 – Language-Driven Motor Simulation is Sensitive to Social Context – <i>Heeyeon Y Dennison and Benjamin K Bergen</i>	986 – Agents and Causes: A Bayesian Error Attribution Model of Causal Reasoning – <i>Ralf Mayrhofer, York Hagmayer and Michael Waldmann</i>	425 – Increasing Information Access Cost to Protect Against Interruption During Problem Solving – <i>Phillip Morgan, John Patrick and Tanya Patrick</i>

**Friday, August 13, 12:30 – 2:00 p.m., Parallel Sessions Tracks E, F, G and H.\***

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**Social Cognition:  
Networks**

(Track E, Room B110-112)

1001 – An Agent-Based Simulation of the Effectiveness of Creative Leadership – *Stefan Leijnen and Liane Gabora*

680 – Linguistic Cues Predict Fraudulent Events in a Corporate Social Network – *Max Louwerse, David Lin, Amanda Drescher and Gun Semin*

1220 – The Cognitive Cost of Ethnocentrism – *Artem Kaznatcheev,*

1087 Self-Esteem and the Matching Effect in Mate Selection – *Kyler Brown, Artem Kaznatcheev and Thomas Shultz*

**Communication:  
Complex Inferences**

(Track F, Room A107-108)

484 – Determining the Internal Consistency of Attitude Attributions – *Kyle Jennings*

1065 – Cohesion, Coherence and Expert Evaluations of Writing Proficiency – *Scott Crossley and Danielle McNamara*

1029 – An Acquired Taste: How Reading Literature Affects Sensitivity to Word Distributions When Judging Literary Texts– *Justine Kao, Robert Ryan, Melody Dye and Michael Ramscar*

618 – What You Did and Did Not Mean: Noise, Context and Human Skill – *Tiziana Ligorio, Susan L Epstein, Rebecca Passonneau and Joshua B Gordon*

**Thinking: Representations  
and Processes**

(Track G, Room A105)

1007 – Spatial Reasoning as Verbal Reasoning – *Antje Krumnack, Leandra Bucher, Jelica Nejasmic and Markus Knauff*

520 – Arbitrating Between Theory-Theory and Simulation Theory: Evidence from a Think-Aloud Study of Counterfactual Reasoning – *Meredith Wilkinson, Linden Ball and Rachel Cooper*

410 – Less-is-More Effects in Knowledge-Based Heuristic Inference – *Philip Beaman, Philip Smith and Rachel McCoy*

136 – What Makes a Good Reasoner? Brain Potentials and Heuristic Bias Susceptibility – *Wim De Neys, Nikolay Novitskiy, Jennifer Ramautar and Johan Wagemans*

**Symposium:  
The Mechanics of Embodiment**

(Track H, Room A106)

There currently exist a large number of interesting and intriguing empirical effects regarding embodied cognition. A critical next step in the development of embodied theories is to flesh out ideas in terms of implemented computational models. This symposium features speakers who currently are working toward that goal. These researchers describe and discuss challenges for embodied models. The major focus is on presenting current efforts to model human cognition in a physical agent with sensory and motor capabilities, implementing the perceptual symbols systems framework, and modeling the dynamic on-line influences of integrated sensori-motor processes.

*Giovanni Pezzulo, Angelo Cangelosi, Michael Spivey, Lawrence Barsalou, Martin Fischer and Ken McRae*

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\*Plenary events and Tracks A, B, C and D are on the previous page.

**Friday, August 13, 2:00 – 3:30 p.m., Parallel Sessions Tracks A, B, C and D\***

<b>Semantics: Intended Meaning</b> (Track A, Oregon Ballroom 201)	<b>Language: Impact on Vision</b> (Track B, Oregon Ballroom 204)	<b>Causal Inference: Context Effects</b> (Track C, Room B113-114)	<b>Cognitive Architecture: Brain-Like Computation</b> (Track D, Room B115-116)
241 – On the Notion of Intended Meaning – <i>Marco Cruciani</i>	1081 – Spatial Position in Language and Visual Memory: A Cross-Linguistic Comparison – <i>Solveig Bosse and Anna Papafragou</i>	1147 – Uncertainty in Causal Inference: The Case of Retrospective Reevaluation – <i>Christopher Carroll, Patricia Cheng and Hongjing Lu</i>	190 – Symbolic Reasoning in Spiking Neurons: A Model of the Cortex-Basal Ganglia-Thalamus Loop – <i>Terrence Stewart, Xuan Choo and Chris Eliasmith</i>
866 – Predicative Metaphor Comprehension as Indirect Categorization – <i>Akira Utsumi and Maki Sakamoto</i>	288 – Generalized Event Knowledge Activation During Online Language Comprehension - <i>Ross Metusalem, Marta Kutas, Mary Hare, Ken McRae and Jeffrey L Elman</i>	1113 – The Role of Causal Schemas in Inductive Reasoning – <i>Ralf Mayrhofer, Jonas Nagel and Michael Waldmann</i>	165 – A Hubel-Weisel Model for Hierarchical Representation of Concepts in Textual Documents – <i>Kiruthika Ramanathan, Luping Shi and Tow Chong Chong</i>
855 – Abstract and Belief-Based Language Differentiate Joking, Pretending and Literal, Toddler-Directed Speech – <i>Elena Hoicka and Ruth Campbell</i>	835 – Framed: Factors Influencing Reference Frame Choice in Tabletop Space – <i>Laurie Robinette, Michele Feist and Michael Kalish</i>	210 – Causal Conditional Reasoning and Conditional Likelihood – <i>Philip Fernbach and Adam Darlow</i>	402 – Automatic and Controlled Processes in Semantic Priming: An Attractor Neural Network Model with Latching Dynamics – <i>Itamar Lerner, Shlomo Bentin and Oren Shriki</i>
901 – Wrongness and Representational Thought – <i>Elena Hoicka and Meredith Gattis</i>	849 – Sentence Production in Naturalistic Scenes with Referential Ambiguity – <i>Moreno I Coco and Frank Keller</i>	315 – Causal Models Interact with Structure Mapping to Guide Analogical Inference – <i>Hee Seung Lee and Keith Holyoak</i>	

\*Tracks E, F, G and H are on the next page.

**Friday, August 13, 2:00 – 3:30 p.m., Parallel Sessions Tracks E, F, G and H.\***

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<b>Social Cognition: Wisdom of Crowds</b> (Track E, Room B110-112)	<b>Reading: Words and Eyes</b> (Track F, Room A107-108)	<b>Thinking: Sources of Error</b> (Track G, Room A105)	<b>Symposium: Developmental and Computational Perspectives on Infant Social Cognition</b> (Track H, Room A106)
438 – Cognitive Models and the Wisdom of Crowds: A Case Study Using the Bandit Problem – <i>Shunan Zhang and Michael Lee</i>	721 – The Emergence of Adaptive Eye Movements in Reading – <i>Yanping Liu and Erik Reichle</i>	542 – Influence of Grammatical Gender on Deductive Reasoning about Sex-Specific Properties of Animals– <i>Mutsumi Imai, Lennart Schalk, Henrik Saalbach and Hiroyuki Okada</i>	Adults effortlessly and automatically infer complex patterns of goals, beliefs and other mental states as the causes of others' actions. Yet before the last decade little was known about the developmental origins of these abilities in early infancy. Our understanding of infant social cognition has now improved dramatically. Even preverbal infants appear to perceive goals, preferences, and even beliefs from sparse observations of intentional agents' behavior. Furthermore, they use these inferences to predict others' behavior in novel contexts and to make social evaluations.  <i>Noah Goodman, Chris Baker, Joshua Tenenbaum, Chris Lucas, Kiley Hamlin, Tamar Kushnir, Tomer Ullman and Elizbeth Spelke</i>
280 – The Accuracy of Small-Group Estimation and the Wisdom of Crowds – <i>Michael Lee and Jenny Shi</i>	489 – Rational Eye Movements in Reading Combining Uncertainty about Previous Words with Contextual Probability – <i>Klinton Bicknell and Roger Levy</i>	848 – A Comparison of the Belief-Adjustment Model and the Quantum Inference Model as Explanations of Order Effects in Human Inference – <i>Jennifer Trueblood and Jerome Busemeyer</i>	
343 – The Wisdom of Crowds with Informative Priors – <i>Pernille Hemmer, Mark Steyvers and Brent Miller</i>	426 – A New Perspective on Visual Word Processing Efficiency – <i>Joseph Hout and James Townsend</i>	133 – Information Relevance in Pseudo-Diagnostic Reasoning – <i>Frederic Vallee-Tourangeau and Gaelle Villejoubert</i>	
	451 – The On-Line Processing of Modal Verbs: Parallel Activation of Competing Mental Models – <i>Stephanie Huetten, Teenie Matlock and Michael Spivey</i>	362 – Accessing the Unsaid: The Role of Scalar Alternatives in Children's Pragmatic Inference – <i>Neon Brooks, Alan Bale and David Barner</i>	

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\*Plenary events and Tracks A, B, C and D are on the previous page.

**Friday, August 13, 3:30 – 5:00 p.m., Parallel Sessions Tracks A, B, C and D\***

<b>Semantics: Reference - 1</b> (Track A, Oregon Ballroom 201)	<b>Vision: Linguistic and Social Factors</b> (Track B, Oregon Ballroom 204)	<b>Mental Representation of Number</b> (Track C, Room B113-114)	<b>Subsymbolic Learning: Reinforcement</b> (Track D, Room B115-116)
939 – Linking Meaning to Language: Linguistic Universals and Variation – <i>Joshua Hartshorne, Tim O'Donnell, Yasutada Sudo, Miki Uruwashi and Jesse Snedeker</i>	1156 – Self-Directed Speech Alters Visual Processing – <i>Gary Lupyan and Daniel Swingley</i>	859 – Electrophysiological Evidence for Multiple Representations of Number in the Human Brain – <i>Frank Kanayet, John Opfer and William Cunningham</i>	1082 – Integrating Reinforcement Learning with Models of Representation Learning – <i>Matt Jones and Fabián Cañas</i>
441 – Comprehending Negated Sentences with Binary States and Locations – <i>Sarah Anderson, Stephanie Huette, Teenie Matlock and Michael Spivey</i>	962 – Is Categorical Perception Really Verbally Mediated Perception? - <i>Andrew Hendrickson, George Kachergis, Todd Gureckis and Robert Goldstone</i>	371 – The Perception of Number from Long-Term Memory – <i>Jiaying Zhao and Nicholas Turk-Browne</i>	1083 – Attention and Reinforcement Learning: Constructing Representations from Indirect Feedback – <i>Fabián Cañas and Matt Jones</i>
907 – On-Line Interactions of Context and Grammatical Aspect – <i>Sarah Anderson, Teenie Matlock and Michael Spivey</i>	429 – Visual Similarity Effects in Categorical Search – <i>Robert Alexander, Wei Zhang and Gregory Zelinsky</i>	1128 – Mapping Number Words to Approximate Magnitudes: Associative Learning or Structure Mapping? – <i>Jess Sullivan and David Barner</i>	540 – Learning to Selectively Attend – <i>Samuel Gershman, Jonathan Cohen and Yael Niv</i>
1212 – Anaphors and Local Coherences – <i>Lars Konieczny, Helmut Weldie, Sascha Wolfer, Daniel Müller and Peter Baumann</i>	439 – Social Cues Support Learning about Objects from Statistics in Infancy – <i>Rachel Wu, Alison Gopnik, Daniel Richardson and Natasha Kirkham</i>	453 – Analogue Magnitudes and Knower-Levels: Re-Visiting the Variability Argument – <i>James Negen and Barbara Sarnecka</i>	702 – Pavlovian Conditioning from a Foraging Perspective – <i>James Anderson, Chloe Bracis and Andrew Goodwin</i>

\*Tracks E, F, G and H are on the next page.

**Friday, August 13, 3:30 – 5:00 p.m., Parallel Sessions Tracks E, F, G and H.\***

<b>Social Cognition: Cultural Factors</b> (Track E, Room B110-112)	<b>Reading: Words and Brains</b> (Track F, Room A107-108)	<b>Thinking: Impact of Language</b> (Track G, Room A105)	<b>Symposium: Emerging Insights from Eye- Movement Research on Category Learning</b> (Track H, Room A106)
348 – A Cognitive Model of Punishment – <i>Francesca Gardini, Giulia Andrichetto and Rosaria Conte</i>	666 – Semantic Integration of Novel Word Meaning After a Single Exposure in Context – <i>Arielle Borovsky, Jeffrey Elman and Marta Kutas</i>	359 – Can Grammar Influence Voting? – <i>Caitlin Fausey and Teenie Matlock</i>	<p>This symposium brings together four talks on eye-tracking and categorization. Each talk focuses on a different aspect of categorization and demonstrates how eye-tracking can extend our knowledge. One recent trend in category learning is the use of alternative training procedures. The inference learning task is the most popular of these procedures and in the first talk Aaron Hoffman presents eye-tracking data illuminating the differences between inference learning and categorization. Bob Rehder then presents his recent work on understanding the learning difficulties associated with Parkinson's disease. Marcus Watson discusses work using eye-tracking to inform our understanding of the basic issue in category learning: error. Finally, Mark Blair discusses the relationship between working memory, attention and performance in a category learning task.</p> <p><i>Bob Rehder, Mark Blair, Aaron Hoffman and Marcus Watson</i></p>
415 – Culturally Guided Beliefs about Opposing Categories and Their Consequences for Action: The Case of Cooperation and Competition – <i>Josh Keller, Jeffrey Loewenstein and Jin Yan</i>	1172 – Fixation Durations in First-Pass Reading Reflect Uncertainty about Word Identity– <i>Nathaniel Smith and Roger Levy</i>	358 – How Much for a Transitive? Subtle Linguistic Cues Influence Blame and Punishment – <i>Caitlin Fausey and Lera Boroditsky</i>	
236 – Theories of God: Explanatory Coherence in a Non-Scientific Domain – <i>Andrew Shtulman</i>	681 – An fMRI Study of Strategic Reading Comprehension – <i>Jarrod Moss, Christian Schunn, Walter Schneider, Danielle McNamara and Kurt VanLehn</i>	1100 – Can Mirror Reading Reverse the Flow of Time? – <i>Daniel Casasanto and Robert Bottini</i>	
1034 – The Cultural Transmission of Explanations: Evidence that Teleological Explanations are Preferentially Remembered – <i>Nicholas Gwynne and Tania Lombrozo</i>	419 – Gricean Brainwaves: Brain Responses to Pragmatic Violations in Discourse – <i>John Hoeks, Petra Hendriks, Gisela Redeker and Laurie Stowe</i>	899 – Implicit Spatial Length Modulates Time Estimates, But Not Vice Versa – <i>Robert Bottini and Daniel Casasanto</i>	

\*Plenary events and Tracks A, B, C and D are on the previous page.

**Friday, August 13, 5:00 – 8:00 p.m., Plenary Events and Parallel Sessions Tracks A, B, C and D\***

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**Semantics:  
Reference - 2**

(Track A, Oregon Ballroom 201)

No Program

(Track B Ballroom 204)

No Program

(Track C, Room B113-114)

**Subsymbolic Learning:  
Complex Patterns**

(Track D, Room B115-116)

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491 – Comparing Apples to Fruit:  
Parent’s Comparisons of Labels are  
Related to First and Second Label  
Learning – *Chandra Brojde and  
Eliana Colunga*

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752 – Modeling Implicit and Explicit  
Processes in Recursive Sequence  
Structure Learning – *Jamie  
Alexandre*

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300 Thinking with Your Body:  
Modeling Spatial Biases in  
Categorization Using a Real  
Humanoid Robot — *Anthony Morse,  
Tony Belpaeme, Angelo Cangelosi  
and Linda Smith*

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510 – The Impact of Starting Small  
on the Learnability of Recursion –  
*Jun Lai and Fenna Poletiek*

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370 – Effects of Simultaneously  
Presented Visual Information on  
Adults’ and Infants’ Auditory  
Statistical Learning – *Erik Thiessen*

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640 – Dissociating Sources of  
Knowledge in Artificial Grammar  
Learning – *Michelle Hendricks,  
Christopher Conway and Ronald  
Kellogg*

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761 Gesture in Language: How  
Sound Symbolic Words are  
Processed in the Brain – *Mamiko  
Arata, Musumi Imai, Jiro Okuda,  
Hiroyuki Okada and Tetsuya  
Matsuda*

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930 – Why Streaks are Special: The  
Time of Patterns – *Yanlong Sun and  
Hongbin Wang*

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6:30 – 8:00 p.m. **Poster Session 2** Exhibit Hall A Light hors d’oeuvres and a cash bar will be available.

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\*Tracks E, F, G and H are on the next page.

**Friday, August 13, 5:00 – 6:30 p.m., Parallel Sessions Tracks E, F, G and H.\***

<b>Social Cognition: Context Facilitation</b> (Track E, Room B110-112)	<b>Reading: Phonological Coding</b> (Track F, Room A107-108)	<b>Thinking: Impact of Emotion</b> (Track G, Room A105)	<b>Symposium: Funding Trends and Opportunities</b> (Track H, Room A106)
625 – Social Learning and Cumulative Mutual Improvement in a Networked Group – <i>Thomas Wisdom and Robert Goldstone</i>	1139 – Phonological Instability in Young Adult Poor Readers – <i>James Magnuson, Anuenue Kukona, David Braze, Clint Jones et al.</i>	971 – How Does Anxiety Influence Analogical Mapping? – <i>Veselina Feldman, Penka Hristova and Boicho Kokinov</i>	This purpose of this symposium is to provide an opportunity for representatives of granting agencies and other sponsors of cognitive science to reflect on and describe current and anticipated trends in support, as well as current opportunities and funding programs.  Chair: <i>Stellan Ohlsson</i>  Speakers: <i>Paul Bello (ONR), Kevin Quinn (NIH/NIMH) and Vincent Brown (NSF)</i> .
767 – Social Context Effects on the Impact of Category Labels – <i>Rachel Stephens, Amy Perfors and Daniel Navarro</i>	801 – Phonological Coding in Word Naming and Word Typing – <i>Jenn-Yeu Chen and Cheng-Yi Li</i>	586 – Impact of Mood Induction on Temporal Processing – <i>Katrina Rodzon and Kerry Jordan</i>	
689 – Pedagogical Cues Influence Children’s Inductive Inference and Exploratory Play – <i>Lucas Butler and Ellen Markman</i>	1199 – Visual and Task Characteristics May Explain Hemispheric Asymmetry in Visual Word Recognition – <i>Kloser Chee Fung Cheung and Janet Hui-wen Hsiao</i>	455 – Hot Cognitions in Coherence-Based Reasoning and Decision Making – <i>Stephen Read, Dan Simon and Douglas Stenstrom</i>	
407 – The Facilitative Effect of Context on Second-Order Social Reasoning – <i>Ben Meijering, Leendert Van Maanen, Hedderik Van Rijn and Rineke Verbrugge</i>	171 – Effects of Near and Distant Phonological Neighbors on Picture Naming – <i>Daniel Mirman, Audrey K Kittredge and Gary S Dell</i>	1142 – Comparison-Induced Sequence Effects on Hedonic Evaluations – <i>Jessica Choplin and Megan Lombardi</i>	

\*Plenary events and Tracks A, B, C and D are on the previous page.

**Saturday, August 14, 8:45 – 11:30 a.m.: Plenary Events and Tracks A, B, C and D.**

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8:45 – 9:45 **Plenary Address** Oregon Ballrooms 202-203  
Bridge Over Troubled Water: From Cognitive Science to Designing Digital Instruction  
*Peter Gerjets, University of Tübingen. Introducer: Richard Catrambone*

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9:45 – 10:00 **Refreshment Break** Mezzanine floor

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10:00 – 11:30 **Parallel Sessions Tracks A, B, C and D** (Tracks E, F, G and H are shown on next page).

**Vocabulary:  
Cross-Situational Learning**  
(Track A, Oregon Ballroom 201)

**Vision:  
Attention in Childhood**  
(Track B, Oregon Ballroom 204)

**Spatial Cognition:  
Routes, Surveys and Frames**  
(Track C, Room B113-114)

**Subsymbolic Learning:  
Environmental Regularities**  
(Track D, Room B115-116)

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807 – Integrating Syntactic Knowledge into a Model of Cross-Situational Word Learning - *Afra Alishahi and Afsaneh Fazly*

1148 – The Goldilocks Effect: Infants' Preference for Stimuli that are Neither Too Predictable Nor Too Surprising– *Celeste Kidd, Steven T Piantadosi and Richard N Aslin*

294 – The Influence of Route Planning and Its Execution on Spatial Learning – *Kayoko Ohtsu and Yoshihiro Ouchi*

814 – Learning from Environmental Regularities is Grounded in Specific Objects not Abstract Categories – *Lauren Emberson and Dani Rubinstein*

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414 – Sentence Processing Mechanisms Influence Cross-Situational Word Learning – *Judith Koehne and Matthew W Crocker*

1097 – Infants' Visual Processing of Faces and Objects: Age-Related Changes in Interest, and Stability of Individual Differences– *Marybel Robledo, Gedeon Deák and Thorsten Kolling*

404 – The Direction Bias and the Incremental Construction of Survey Knowledge – *Tobias Meilinger and Heinrich H. Bühlhoff*

513 – Adult Language Learners under Cognitive Load Do Not Over-Regularize Like Children – *Amy Perfors and Nicholas Burns*

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1210 – Adaptive Constraints and Inference in Cross-Situational Word Learning – *Georgia Kachergis, Chen Y and Richard Shiffrin*

658 – Mechanisms of Sustained Selective Attention in 3- to 5-Year Old Children: Evidence from a New Object Tracking Task– *Anna Fisher*

1166 – Alignment of Spatial Perspective – *Elena Andonova*

213 – Descriptive Assessment of Jeffrey's Rule – *Jiaying Zhao and Daniel Oshershon*

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734 – Desirable Difficulties in Cross-Situational Word Learning – *Haley Vlach and Catherine Sandhofer*

760 – Spatial Representations with Conflicting Intrinsic Frames of Reference – *Franklin Tamborello, Yanlong Sun and Hongbin Wang*

1144 – Effects of Varied Priority Training on Complex Perceptual-Motor Learning – *Yi Wang, Michelle Moon, Wai-tat Fu, Walter Boot, Kirk Erickson and Arthur Kramer*

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**Saturday, August 14, 10:00 – 11:30 a.m.: Tracks E, F, G and H.**

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<b>Action: Intention and Movement</b> (Track E, Room B110-112)	<b>Symbolic Learning: Error Correction</b> (Track F, Room A107-108)	<b>Thinking: Moral Concepts</b> (Track G, Room A105)	<b>Symposium: Dynamic Decision Making</b> (Track H, Room A106)
777 – Non-Verbal Responses to Being Ignored: Evidence of Cognitive Deconstruction? – <i>Emiel Kraemer, Juliette Schaafsma, Marc Swerts, Martijn Balsters and Ad Vingerhoets</i>	1192 – Learning from Errors by Counterfactual Reasoning in a Unified Cognitive Architecture – <i>Andreea Danieleescu, David J Stracuzzi, Nan Li and Pat Langley</i>	949 – A Double Causal Contrast Theory of Moral Intuitions in Trolley Dilemmas – <i>Michael R Waldmann and Alex Wiegmann</i>	The experimental study of decision-making has historically focused on simple single-trial judgment or reasoning tasks. However, real world behavior often necessitates on-line decision making, planning and sequentially organized behavior. The goal of the proposed symposium is to bring together researchers who are working to understand the cognitive processes underlying dynamic decision-making, defined as tasks or contexts that are structured as a sequence of interdependent decision. A symposium on this topic is particularly timely since research in this area is having a tremendous impact on the field of psychology. The key topics covered are: how people plan sequences of actions to accomplish goals; the neurobiology of sequential decision-making and planning; how cognitive representations of the task environment support planning and decision-making; and how people balance exploration and exploitation to arrive at effective decision strategies in unknown environments.
1013 – The Bodily Movements of Liars – <i>Natasha Eapen, Sam Baron, Chris Street and Daniel Richardson</i>	430 – Optimal Inference and Feedback to Representational Change – <i>Yun Tang, Christopher J Young, Jay I Myung, Mark A Pitt and John E Opfer</i>	243 – Deconfounding Distance Effects in Moral Reasoning – <i>Jonas Nagel and Michael Waldmann</i>	
345 – Exploring the Mental Space of Autonomous Intentional Agents – <i>Peter Pantelis and Jacob Feldman</i>	1086 – Learning from Errors in Game-Based Versus Formal Mathematics Contexts – <i>Lori Petersen, Jennifer Heil, Nicole McNeil and Gerald Haefel</i>	151 – Developing Notions of Free Will: Preschoolers' Understanding of How Intangible Constraints Bind Their Freedom of Choice– <i>Nadia Chernyk, Tamar Kushnir and Henry Wellman</i>	
364 – Actor-Observer Differences in Intentional Action Intuitions – <i>Adam Feltz, Maegan Harris and Ashley Perez</i>	1095 – Collaborative Facilitation through Error-Detection: A Classroom Experiment – <i>Soniya Gadgil, Timothy Nokes, Melissa Patchan, Daniel Belenky and Jooyoung Jang</i>		

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\*Plenary events and tracks A, B, C and D are on the previous page.

*Todd Gureckis Jared Hotaling, Michael Lee, Bradley Love and Dylan Simon*

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**Saturday, August 14, 11:30 a.m. – 1:00 p.m., Parallel Sessions Tracks A, B, C and D\***

**Vocabulary:  
Facilitating Factors**

(Track A, Oregon Ballroom 201)

**Perception:  
Cross-Modality Processing**

(Track B, Oregon Ballroom 204)

**Spatial Cognition:  
Functions of Diagrams**

(Track C, Room B113-114)

**Subsymbolic Learning:  
Language**

(Track D, Room B115-116)

476 – The Active Role of Partial Knowledge in Cross-Situational Word Learning – *Daniel Yurovsky, Damian Fricker, Chen Yu and Linda Smith*

587 – A Bayesian Nonparametric Approach to Multisensory Perception – *Ilker Yildirim, and Robert Jacobs*

891 – Effects of Problem Difficulty and Student Expertise on the Utility of Provided Diagrams in Probability Problem Solving– *Eliza J Bobek and James E Corter*

642 – Learning Verb Alternations in a Usage-Based Bayesian Model – *Christopher Parisien and Suzanne Stevenson*

668 – Cross-Situational Learning of Low Frequency Words: The Role of Context Familiarity and Age of Exposure – *Afsaneh Fazly, Fatemeh Ahmadi-Fakhr, Afra Alishahi and Suzanne Stevenson*

780 – Attention and Cross-Modal Processing: Evidence from Heart Rate Analyses - *Chris Robinson and Vladimir Sloutsky*

1066 – Interactive Effects of Diagrammatic Format and Teleological Beliefs on Tree Thinking – *Brenda Phillips, Laura Novick, Kefyn Catley and Daniel Funk*

1135 – Frequent Frames as Cues to Part-of-Speech in Dutch: Why Filler Frequency Matters – *Richard Leibbrandt and David Powers*

883 – Object and Word Familiarization Differentially Boost Retention in Fast-Mapping – *Sarah C Kucker and Larissa K Samuelson*

774 – Evidence for Auditory Dominance in a Passive Oddball Task – *Chris Robinson, Nayef Ahmar and Vladimir Sloutsky*

454 – Thinking with Networks – *Jeffrey V Nickerson, Barbara Tversky, James E Corter, Lixiu Yu, Yun Jin Rho and David Mason*

1040 – When 'More' in Statistical Learning Means 'Less' in Language: Individual Differences in Predictive Processing of Adjacent Dependencies– *Jennifer B Misyak and Morten H Christiansen*

1031 – Attentional Control and Early Word Learning – *Hanako Yoshida, Duc Tran, Viridiana Benitez and Megumi Kuwabara*

799 – Constructing Internal Diagrammatic Proofs from External Logic Diagrams – *Yuri Sato, Koji Mineshima and Ryo Takemura*

839 – Statistical Learning of Complex Questions – *Hartmut Fitz*

\*Tracks E, F, G and H are on the next page.

**Saturday, August 14, 11:30 a.m. – 1:00 p.m.: Tracks E, F, G and H.**

<b>Action: Perception and Simulation</b> (Track E, Room B110-112)	<b>Symbolic Learning: Role of Disequilibrium</b> (Track F, Room A107-108)	<b>Thinking: Relational Structures</b> (Track G, Room A105)	<b>Symposium: Bridging the Gap: From Cognitive Anthropology to Cognitive Science</b> (Track H, Room A106)
535 – Effector-Specific Motor Interference in Action Simulation – <i>Peggy Tausche, Anne Springer and Wolfgang Prinz</i>	440 – Modeling Cognitive-Affective Dynamics with Hidden Markov Models – <i>Sidney D’Mello and Art Graesser</i>	978 – Relational Versus Attributional Mode of Problem Solving – <i>Svetoslav Bliznaski and Boicho Kokinov</i>	Although cognitive anthropology once was a pioneer in the cognitive revolution and founding member of the cognitive sciences, over the years its participation and influence have diminished – to the detriment of both cognitive anthropology and cognitive science. Meanwhile, though, interactions between culture and cognition are increasingly recognized as being of prime interest for cognitive science. Among the most important issues that call for anthropological expertise is the question of cognitive and/or linguistic universals. Anthropology, with its expertise in culture and language, thus becomes an invaluable partner for cognitive science research. But only recently have initiatives been launched to re-calibrate the relationships among the subfields of cognitive science. This seminar will review such initiatives.
206 – Simulation from Schematics: Dorsal Stream Processing and the Perception of Implied Motion – <i>Kevin J Holmes and Phillip Wolff</i>	1094 – Productive Failure in Learning the Concept of Variance – <i>Manu Kapur</i>	852 – Executive Control in Analogical Mapping: Two Facets – <i>Anna Chuderska</i>	
360 – Assessing Behavioral and Computational Approaches to Naturalistic Action Segmentation – <i>Meredith Meyer, Philip DeCamp, Bridgette Hard, Dare Baldwin and Deb Roy</i>	228 – Finding the Sweet Spot: Is There a Fixed Template for Culturally Successful Counterintuitive Narratives? – <i>M Afzal Upal</i>	1152 – Selective Attention by Structural Alignment: An Eyetracking Study – <i>Aaron Hoffman, Bradley Love and Arthur Markman</i>	
931 – The Perception of Humans and Robots: Uncanny Hills in Parietal Cortex – <i>Ayse Pinar Saygin, Thierry Chaminade and Hiroshi Ishiguro</i>	683 – Fortune Favors the Bold (and the Italicized): Effects of Disfluency on Educational Outcomes – <i>Daniel Oppenheimer, Connor Diemand-Yauman and Erikka Vaughan</i>	994 – A Structure-Mapping Model of Raven’s Progressive Matrices – <i>Andrew Lovett, Kenneth Forbus and Jeffrey Usher</i>	

\*Plenary events and tracks A, B, C and D are on the previous page.

*Andrea Bender, Sieghard Beller, Giovanni Bennardo, James S Boster, Asifa Majid and Douglas Medin*

**Saturday, August 14, 1:00 – 2:30 p.m., Plenary Events and Parallel Sessions Tracks A, B, C and D\***

**Vocabulary:  
Growth and Attrition**

(Track A, Oregon Ballroom 201)

1054 – Semantic Network Connectivity is Related to Vocabulary Growth Rate in Children – *Nicole Beckage, Linda Smith and Thomas Hills*

307 – Effects of Maternal Input on Language in the Absence of Genetic Confounds: Vocabulary Development in Internationally Adopted Children – *Carissa L Shaffo, Joy Geren and Jesse Snedeker*

1028 – Who's Afraid of Similarity? Effects of Phonological and Semantic Similarity on Lexical Acquisition – *Sarah Sahni*

863 – A S.O.M. Model of First Language Lexical Attrition – *Benjamin Zinszer and Ping Li*

**Perception:  
Stimulus Dimensions**

(Track B, Oregon Ballroom 204)

726 – The Encoding of Spatial Information During Small-Set Enumeration – *Harry Haladjian, Manish Singh, Zenon Pylyshyn and Randy Gallistel*

583 – Multiple Visual Cues Enhance Quantitative Perception in Infancy - *Joseph Baker, Jessica Feigleson and Kerry Jordan*

673 – Multidimensional Scaling Methods for Absolute Identification Data – *Pennie Dodds, Chris Donkin, Scott Brown and Andrew Heathcote*

431 – Mind Reading by Machine Learning: A Doubly Bayesian Method for Inferring Mental Representations – *Ferenc Huszar, Uta Noppeney and Mate Lengyel*

**Spatial Cognition:  
Acquisition**

(Track C, Room B113-114)

722 – The Development and Assessment of Cross-Sectioning Ability in Young Children – *Kristin Ratliff, Charlotte McGinnis and Susan Levine*

184 – What Can Information Extraction from Scenes and Causal Systems Tells Us about Learning from Text and Pictures? – *Alexander Eitel, Katharina Scheiter and Anne Schüller*

296 – Does Spatial Verbal Information Interfere with Picture Processing in Working Memory? The Role of the Visuo-Spatial Sketchpad in Multimedia Learning – *Anne Schüller, Katharina Scheiter and Peter Gerjets*

598 – Impact of Placing Icons Next to Hyperlinks on Information-Retrieval Tasks on the Web – *Saraschandra Karanam, Janhavi Viswanathan, Anand Theertha, Bipin Indurkha and Herre van Oostendorp*

**Subsymbolic Learning:  
Childhood**

(Track D, Room B115-116)

1211 – Theory Learning as Stochastic Search – *Tomer Ullman, Noah Goodman and Joshua Tenenbaum*

741 – Is It Me or the World? 16-Month-Olds Distinguish Competing Hypotheses about the Cause of Failed Interventions – *Hyowon Gweon and Laura Schulz*

1167 – Developmental Differences in Learning the Forms of Causal Relationships – *Christopher Lucas, Alison Gopnik and Thomas Griffiths*

711 – Children's Imitation of Action Sequences is Influenced by Statistical Evidence and Inferred Causal Structure – *Daphna Buchsbaum, Alison Gopnik and Thomas Griffiths*

2:30 – 5:00 **10 Years of Rumelhart Prizes: A Symposium** Oregon Ballrooms 202-203

Outstanding Questions in Cognitive Science Chair: William Bechtel

*Geoffrey E Hinton, Richard M Shiffrin, Aravind Joshi, John Anderson, Paul Smolensky, Roger Shepard, Jeff Elman, Shimon Ullman, Susan Carey and James McClelland*

5:00 – 6:30 **Rumelhart Celebration Reception** Holladay Lobby on the Mezzanine Floor

**Saturday, August 14, 1:00 – 2:30 p.m.: Tracks E, F, G and H.**

<b>No program</b> (Track E, Room B110-112)	<b>Symbolic Learning: Tutoring</b> (Track F, Room A107-108)	<b>Thinking: Explanation</b> (Track G, Room A105)	<b>Symposium: Flux: Fundamental or Frivolous?</b> (Track H, Room A106)
	620 – The More the Merrier? Examining Three interaction Hypotheses – <i>Min Chi, Kurt VanLehn and Diane Litman</i>	1010 – Explanatory Reasoning for Inductive Confidence – <i>David Landy and John Hummel</i>	A broad range of findings across the cognitive sciences has emerged, revealing surprising flexibility and dynamic flux in a large range of cognitive domains. These include exciting new discoveries of neuroplasticity well into adulthood, of great cognitive variability as a function of the statistical properties of one's environment (from the patterns in natural language to those in embodied experience), and discoveries of the surprisingly dynamic microstructure of cognition. Do such findings demonstrate that many fundamental aspects of cognition are indeed quite flexible? Or does a finding that some aspect of cognition is flexible mean that it is therefore not fundamental? Or is flux the only truly fundamental thing about cognition in the first place? The talks in this symposium will speak to these questions from a variety of perspectives (incorporating ideas from development, neuroscience, computational studies, and cross-cultural approaches) and they aim to help us clarify our thinking about what such findings mean.
	885 – Comparing Worked Examples and Tutored Problem Solving: Pure vs Mixed Approaches – <i>Rob Weitz, Ron Salden, Ryung Kim and Neil Heffernen</i>	495 – Explanations Make Inconsistencies Harder to Detect – <i>Sangeet Khemlani and Phil Johnson- Laird</i>	
	633 – Interleaving Worked Examples and Cognitive Tutor Support for Algebraic Modeling of Problem Situations – <i>Albert Corbett, Stephen Reed, Bob Hoffman, Ben MacLaren and Angela Wagner</i>	995 – Explanation Constrains Learning, and Prior Knowledge Constrains Explanation – <i>Joseph Jay Williams and Tania Lombrozo</i>	
	1056 – Learning During Intelligent Tutoring: When Do Integrated Visual- Verbal Representations Improve Student Outcomes?– <i>Kirsten Butcher and Vincent Alevan</i>	957 – Why Does Explaining Help Learning? Insight from an Explanation Impairment Effect – <i>Joseph Jay Williams, Tania Lombrozo and Bob Rehder</i>	

\*Plenary events and tracks A, B, C and D are on the previous page.

*Lera Boroditsky, Helen Neville, Christina Karns, Arthur Markman and Michael Spivey*