

# Friday July 28

(Note: final speaker of each regular session is chair of that session.)

<b>Morning Session 1 (9:00am - 10:00am)</b>		
<b>King Suite</b>	<b>Keynote</b>	
9:00-10:00am	Principles of Brain Circuit Architectures, from Percept to Concept	Richard Granger
<b>Coffee Break (10:00-10:30am)</b>		
<b>Morning Session 2 (10:30am - 12:10pm)</b>		
<b>Track 1: King Suite</b>	<b>Rumelhart Prize Symposium</b>	
10:30am-12:10pm	Rumelhart Prize Symposium in honor of Lila R. Gleitman: Finding structure and meaning in language acquisition	Barbara Landau, Elissa Newport, John Trueswell, Cindy Fisher
<b>Track 2: Hilton 1-3</b>	<b>Perceptual Learning</b>	
10:30-10:50am	A computational decomposition of task-irrelevant perceptual learning	Angelo Pirrone, Tom Stafford
10:50-11:10am	Non-syntactic Processing Explains Cortical Entrainment During Speech Perception	Stefan Frank, Jin-Biao Yang
11:10-11:30am	Sequential Effects in the Garner Tasks	Deborah Lin, Daniel Little
11:30-11:50am	Narrowing of the Cone-of-Direct Gaze Through Reinforcement Learning	Sam Blakeman, Denis Mareschal
11:50-12:10pm	Watching Non-Corresponding Gestures Helps Learners with High Visuospatial Ability to Learn about Movements with Dynamic Visualizations: An fNIRS Study	Birgit Brucker, Björn de Koning, Ann-Christine Ehlis, David Rosenbaum, Peter Gerjets
<b>Track 3: Hilton 4-6</b>	<b>Collaborative Cognition</b>	
10:30-10:50am	Synchronization Assessment for Collective Behavior	Maurici A. López-Felip, Tehran J. Davis, Till D. Frank
10:50-11:10am	Examining Multiscale Movement Coordination in Collaborative Problem Solving	Travis J. Wiltshire, Sune Vork Steffensen
11:10-11:30am	Selective Information Sampling and the In-Group Heterogeneity Effect	Elizaveta Konovalova, Gael Le Mens
11:30-11:50am	Leveraging Response Consistency within Individuals to Improve Group Accuracy for Rank-Ordering Problems	Brent Miller, Mark Steyvers
11:50-12:10pm	Preschoolers appropriately allocate roles based on relative ability in a cooperative interaction	Rachel Magid, Mary DePascale, Laura Schulz
<b>Track 4: Hilton 7-12</b>	<b>Logical Reasoning</b>	
10:30-10:50am	The elusive odness of or-introduction	Nicole Cruz, David Over, Mike Oaksford
10:50-11:10am	A Two-Step Signal Detection Model of Belief Bias	Rachel Stephens, John Dunn, Brett Hayes
11:10-11:30am	Modeling the Ellsberg Paradox by Argument Strength	Niki Pfeifer, Hanna Pankka
11:30-11:50am	A Computational Logic Approach to Human Syllogistic Reasoning	Ana Oliveira da Costa, Emmanuelle-Anna Dietz Saldanha, Steffen Hölldobler, Marco Ragni
11:50-12:10pm	The Semantics and Pragmatics of Logical Connectives: Adults' and Children's Interpretations of And and Or in a Guessing Game	Masoud Jasbi, Michael Frank
<b>Track 5: Hilton 13-16</b>	<b>Causal Cognition 2</b>	
10:30-10:50am	Opponent Uses of Simplicity and Complexity in Causal Explanation	Samuel Johnson, J. J. Valenti, Frank Keil
10:50-11:10am	Investigating the Explore/Exploit Trade-off in Adult Causal Inferences	Erik Herbst, Christopher Lucas, Daphna Buchsbaum
11:10-11:30am	A non-parametric Bayesian prior for causal inference of auditory streaming	Tim Yates, Nathanael Larigaldie, Ulrik Beierholm
11:30-11:50am	Statistical and Mechanistic Information in Evaluating Causal Claims	Samuel Johnson, Frank Keil
11:50-12:10pm	Causal and compositional generative models in online perception	Ilker Yildirim, Michael Janner, Mario Belledonne, Christian Wallraven, Winrich Freiwald, Josh Tenenbaum
<b>Track 6: Westminster</b>	<b>Symposium</b>	
10:30am-12:10pm	Time in the mind of a child: Perspectives on the development of temporal cognition	Katharine Tillman, Florie Monier, Meng Zhang, Jonathan Redshaw, Teresa McCormack

<b>Track 7: Park</b>	<b>Learning &amp; Instruction</b>	
10:30-10:50am	The most efficient sequence of study depends on the type of test	Paulo Carvalho, Rob Goldstone
10:50-11:10am	Is Play Better Than Direct Instruction? Learning About Causal Systems through Play	Zi L. Sim, Kuldeep K. Mahal, Fei Xu
11:10-11:30am	Teaching by Intervention: Working Backwards, Undoing Mistakes, or Correcting Mistakes?	Mark Ho, Michael Littman, Joseph Austerweil
11:30-11:50am	Is there an explicit learning bias? Students beliefs, behaviors and learning outcomes.	Paulo Carvalho, Elizabeth McLaughlin, Ken Koedinger
11:50-12:10pm	The impact of practice frequency on learning and retention	Caiflin Tenison, John Anderson
<b>Track 8: Thames</b>	<b>Regularity in Language</b>	
10:30-10:50am	Creating words from iterated imitation	Pierce Edmiston, Marcus Perlman, Gary Lupyan
10:50-11:10am	Social Network Limits Language Complexity	Matt Lou-Magnuson, Luca Onnis
11:10-11:30am	Harmony in a non-harmonic language: word order learning in French children	Guillaume Braquet, Jennifer Culbertson
11:30-11:50am	Is the strength of regularisation behaviour uniform across linguistic levels?	Carmen Saldana, Kenny Smith, Simon Kirby, Jennifer Culbertson
11:50-12:10pm	Prior Expectations in Linguistic Learning: A Stochastic Model of Individual Differences	R. Alexander Schumacher, Janet Pierrehumbert
<b>Track 9: Windsor</b>	<b>Semantics</b>	
10:30-10:50am	The Semantic Spaces of Child-Directed Speech, Child Speech and Adult-directed Speech: A Manifold Perspective	Hao Sun, John Pate
10:50-11:10am	Semantic Typology and Parallel Corpora: Something about Indefinite Pronouns	Barend Beekhuizen, Julia Watson, Suzanne Stevenson
11:10-11:30am	A Biologically Constrained Model of Semantic Memory Search	Ivana Kojic, Jan Gosmann, Brent Komer, Ryan W. Orr, Terrence Stewart, Chris Eliasmith
11:30-11:50am	A Bayesian Model of Memory for Text	Mark Andrews
11:50-12:10pm	Evaluating Vector-Space Models of Word Representation, or, The Unreasonable Effectiveness of Counting Words Near Other Words	Aida Nematzadeh, Stephan C. Meylan, Thomas L. Griffiths
<b>Track 10: Blenheim</b>	<b>Choice</b>	
10:30-10:50am	The Refugees' Dilemma: not all deontological moral choices are of the same kind	Albert Barque-Duran, Emmanuel Pothos
10:50-11:10am	Attractor Dynamics in Delay Discounting: A Call for Complexity	Martin Schoemann, Stefan Scherbaum
11:10-11:30am	Comparing Individual and Collaborative Problem Solving in Environmental Search	Franziska Keilmann, Stephan de la Rosa, Stephan Schwan, Ulrike Cress, Betty J Mohler, Heinrich H Bülthoff, Tobias Meilinger
11:30-11:50am	A Unified Model of Entropy and the Value of Information	Jonathan D. Nelson, Vincenzo Crupi, Björn Meder, Gustavo Cevolani, Katya Tentori
11:50-12:10pm	Word Identification Under Multimodal Uncertainty	Abdellah Fourtassi, Michael Frank
<b>Track 11: Buckingham</b>	<b>Cognitive Control</b>	
10:30-10:50am	Multitasking Capability Versus Learning Efficiency in Neural Network Architectures	Sebastian Musslick, Andrew Saxe, Kayhan Ozcimder, Biswadip Dey, Greg Henselman, Jonathan Cohen
10:50-11:10am	A Model of Cognitive Control in the Wisconsin Card Sorting Test: Integrating Schema Theory and Basal Ganglia Function	Andrea Caso, Richard P. Cooper
11:10-11:30am	A Formal Approach to Modeling the Cost of Cognitive Control	Kayhan Ozcimder, Biswadip Dey, Sebastian Musslick, Giovanni Petri, Nesreen K. Ahmed, Theodore L. Willke, Jonathan D. Cohen
11:30-11:50am	Strategic exploration in human adaptive control	Eric Schulz, Edgar Klenske, Neil Bramley, Maarten Speekenbrink
11:50-12:10pm	Novel Evidence for the Bilingual Advantage: Effects of Language Control on Executive Function in Balanced and Unbalanced Dual-Language Users	W. Quin Yow, Adam C. Oei, Xiaoqian Li

**Lunch Break (12:10-1:20PM)**

**Poster Session 2 (Monarch Suite, 1:20pm - 2:50pm)**

**Afternoon Session 1 (3:00pm - 4:40pm)**

<b>Track 1: King Suite</b>	<b>Symposium</b>	
3:00-4:40pm	LUCID science: Advancing learning through human-machine cooperation	Timothy Rogers, Charles Kalish
<b>Track 2: Hilton 1-3</b>	<b>Cognitive Development 2</b>	
3:00-3:20pm	Children's semantic and world knowledge overrides fictional information during anticipatory linguistic processing	Ruth Lee, Craig Chambers, Falk Huettig, Patricia Ganea
3:20-3:40pm	How can I help? 24- to 48-month-olds provide help specific to the cause of others' failed actions	Sophie Bridgers, Sara Altman, Hyowon Gweon
3:40-4:00pm	Children's intuitions about the structure of mental life	Kara Weisman, Carol Dweck, Ellen Markman
4:00-4:20pm	Variables Involved in Selective Sustained Attention Development: Advances in Measurement	Jaeh Kim, Anna Vande Velde, Erik Thiessen, Anna Fisher
4:20-4:40pm	The Development of Structural Thinking about Social Categories	Nadya Vasilyeva, Alison Gopnik, Tania Lombrozo
<b>Track 3: Hilton 4-6</b>	<b>Categorisation</b>	
3:00-3:20pm	Distributional learning and lexical category acquisition: What makes words easy to categorize?	Giovanni Cassani, Robert Grimm, Steven Gillis, Walter Daelemans
3:20-3:40pm	Unsupervised Learning in an Animal Model	Edward Wasserman, Leyre Castro, Vladimir Sloutsky
3:40-4:00pm	Perceptual contrast and response assimilation in sequential categorization without feedback	James Hampton
4:00-4:20pm	Comparative analysis of visual category learning	John Freeman, Matthew Broschard, Jangjin Kim, Leyre Castro, Edward Wasserman, Vladimir Sloutsky
4:20-4:40pm	Executive function and attention predict low-income preschoolers' active category learning	Katherine A. Adams, George Kachergis
<b>Track 4: Hilton 7-12</b>	<b>Spatial Language</b>	
3:00-3:20pm	Thinking about the future: The role of spatial metaphors for time	Stephen Flusberg, Teenie Matlock, Paul Thibodeau
3:20-3:40pm	How Relative is the Relative Frame of Reference? Front and back in Norwegian, Farsi, German, and Japanese	Sieghard Beller, Andrea Bender
3:40-4:00pm	Spatial language promotes cross-domain associations in early childhood	Ariel Starr, Mahesh Srinivasan
4:00-4:20pm	Does Mandarin Spatial Metaphor for Time Influence Chinese Deaf Signers' Spatio-Temporal Reasoning?	Yan Gu, Yeqiu Zheng, Marc Swerts
4:20-4:40pm	Language and Spatial Memory in Japanese and English	Harmen Gudde, Kenny Coventry
<b>Track 5: Hilton 13-16</b>	<b>Inference</b>	
3:00-3:20pm	Generic and Universal Generalisations: Contextualising the "Generic Overgeneralisation" Effect	Dimitra Lazaridou-Chatzigoga, Napoleon Katsos, Linnaea Stockall
3:20-3:40pm	Mindshaping the world can make mindreading tractable: Bridging the gap between philosophy and computational complexity analysis	Andrea Zeppi, Mark Blokpoel
3:40-4:00pm	The provenance of modal inference	Sangeet Khemlani, Thomas Hinterecker, Philip Johnson-Laird
4:00-4:20pm	Is Conflict Detection in Reasoning Domain General?	Darren Frey, Wim De Neys
4:20-4:40pm	Interpreting actions by attributing compositional desires	Joey Velez-Ginorio, Max H. Siegel, Joshua B. Tenenbaum, Julian Jara-Ettinger
<b>Track 6: Westminster</b>	<b>Decision Making 1</b>	
3:00-3:20pm	A Cognitive Model of Strategic Deliberation and Decision Making	Russell Golman, Sudeep Bhatia
3:20-3:40pm	Using mouse-tracking data to visualise decision landscapes	Arkady Zgonnikov, Andrea Aleni, Petri Piironen, Denis O'Hara
3:40-4:00pm	A computational model for decision tree search	Bas van Opheusden, Gianni Galbiati, Zahy Bnaya, Yunqi Li, Wei Ji Ma
4:00-4:20pm	The Dynamics of Selective Integration during Rapid Experiential Decisions	Konstantinos Tsetsos
4:20-4:40pm	Decisions based on verbal probabilities: Decision bias or decision by belief sampling?	Hidehito Honda, Toshihiko Matsuka, Kazuhiro Ueda

<b>Track 7: Park</b>	<b>Bayes</b>	
3:00-3:20pm	Sampling frames, Bayesian inference and inductive reasoning	Brett Hayes, Stephanie Banner, Daniel Navarro
3:20-3:40pm	Interpreting Asymmetric Perception in Speech Perception with Bayesian Inference	Jie Ren, Joseph Austerweil
3:40-4:00pm	Modelling dependency completion in sentence comprehension as a Bayesian hierarchical mixture process: A case study involving Chinese relative clauses	Shravan Vasishth, Nicolas Chopin, Robin Ryder, Bruno Nicenboim
4:00-4:20pm	Task-oriented Bayesian inference in interval timing: People use their prior reproduction experience to calibrate time reproduction	Zhenguang Cai, Ruiming Wang, Huihui Liu, Maarten Speekenbrink
4:20-4:40pm	A hierarchical Bayesian model of "memory for when" based on experience sampling data	Simon Dennis, Hyungwook Yim, Vishnu Sreekumar, Nathan Evans, Paul Garrett, Per Sederberg
<b>Track 8: Thames</b>	<b>Representation of Events</b>	
3:00-3:20pm	A Model of Event Knowledge	Jeffrey Elman, Ken McRae
3:20-3:40pm	A Computational Model for the Dynamical Learning of Event Taxonomies	Christian Gumbsch, Sebastian Otte, Martin Butz
3:40-4:00pm	Viewers' Sensitivity to Abstract Event Structure	Yue Ji, Anna Papafragou
4:00-4:20pm	Picturing time: Children's preferences for visual representations of events	Katharine Tillman, Eren Fukuda, David Barner
4:20-4:40pm	Listeners integrate speech, gesture, and discourse structure to interpret the temporal structure of complex events	Andrea Nishimi, Esther Walker, Benjamin Bergen, Tyler Marghetis
<b>Track 9: Windsor</b>	<b>Visual Search</b>	
3:00-3:20pm	Mechanisms of overharvesting in patch foraging	Gary Kane, Aaron Bornstein, Robert Wilson, Amitai Shenhav, Nathaniel Daw, Jonathan Cohen
3:20-3:40pm	Seeing Is Not Enough for Sustained Visual Attention	Lei Yuan, Tian Linger Xu, Chen Yu, Linda Smith
3:40-4:00pm	Human Visual Search as a Deep Reinforcement Learning Solution to a POMDP	Aditya Acharya, Xiuli Chen, Christopher Myers, Richard Lewis, Andrew Howes
4:00-4:20pm	Looking for the Cat and Seeing the Dog: Using Visual Search to Study Semantic Knowledge in Children	Catarina Vales, Layla Unger, Anna Fisher
4:20-4:40pm	Target-to-distractor similarity can help visual search performance	Vencislav Popov, Lynne Reder
<b>Track 10: Blenheim</b>	<b>Interaction</b>	
3:00-3:20pm	Audiovisual integration is affected by performing a task jointly	Basil Wahn, Ashima Keshava, Scott Sinnett, Alan Kingstone, Peter König
3:20-3:40pm	Moving together: in the body or the mind?	Lilla Hodossy, Jorina von Zimmermann, Daniel Richardson
3:40-4:00pm	Opinion Cascades and Echo-Chambers in Online Networks: A Proof of Concept Agent-Based Model	Toby D. Pilditch
4:00-4:20pm	Inferring Human Interaction from Motion Trajectories in Aerial Videos <b>**Winner, Computational Modeling Prize for Perception &amp; Action**</b>	Tianmin Shu, Yujia Peng, Lifeng Fan, Hongjing Lu, Song-Chun Zhu
4:20-4:40pm	Unifying recommendation and active learning for human-algorithm interactions	Scott Cheng-Hsin Yang, Jake Alden Whitner, Olfa Nasraoui, Patrick Shafto
<b>Track 11: Buckingham</b>	<b>Symposium</b>	
3:00-4:40pm	Game-XP: Action Games as Cognitive Science Paradigms	Wayne Gray, Ray Perez, Martin Butz, Stuart Reeves, Matthew Sangster, Tom Stafford, Fernand Gobet

**Coffee Break (4:40 - 5:10pm)**

**Afternoon Session 2 (5:10pm - 6:10pm)**

<b>King Suite</b>	<b>Rumelhart Prize Talk</b>	
5:10-6:10pm	Takes Two to Tango: The Linguistic Representation of Symmetry	Lila Gleitman

**Rumelhart Prize Reception (6:10 - 7:10pm)**