



CogSci 2020 Searchable Program

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TIME ZONES			PRE-CONFERENCE WORKSHOPS
TORONTO	LA	LONDON	
9:00 – 4:00	6:00 – 1:00	14:00 – 21:00	Workshop #1 - Mental effort: One construct, many faces? Presenters – Sebastian Musslick: Princeton University; Maria Wirzberger: Max Planck Institute for Intelligent Systems; Ivan Grahek: Brown University; Laura A. Bustamante: Princeton University; Amitai Shenhav: Brown University; Jonathan Cohen: Princeton University.
9:00 – 4:00	6:00 – 1:00	14:00 – 21:00	Workshop #2 - Cognition, Collectives, and Human Culture Presenters – Charley Mingshuo Wu: Harvard University; Natalia A Vélez: Stanford University; Mark K Ho: Princeton University; Robert Goldstone: Indiana University; Patrick Shafto: Rutgers University; Hyowon Gweon: Stanford University; Seth Frey: University of California, Davis; Amy Perfors: University of Melbourne; Sholei Croom: MIT; Kara Weisman: Stanford University; Dorsa Amir: Boston College; Cristine Legare: University of Texas at Austin
9:00 – 4:00	6:00 – 1:00	14:00 – 21:00	Workshop #3 - The Origins of Common Sense in Humans and Machines Presenters – Kevin A Smith: Massachusetts Institute of Technology; Eliza Kosoy: UC Berkeley ; Alison Gopnik: University of California at Berkeley; Deepak Pathak: Carnegie Mellon University; Alan Fern: Oregon State University; Josh Tenenbaum: MIT; Tomer D. Ullman: Harvard University
9:00 – 4:00	6:00 – 1:00	14:00 – 21:00	Workshop #4 - How stories shape us, and how we shape stories Presenters – Angela Nyhout: University of Kent; Vaunam Venkadasalam: University of Toronto; Keith Oatley: University of Toronto; Raymond A. Mar: York University



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9:00 – 4:00	6:00 – 1:00	14:00 – 21:00	Workshop #5 - From Efficient Coding to Information Gain: Information-Theoretic Principles in Models of Human Decision Making Presenters – Mikaela Akrenius: Indiana University Bloomington; Laurence T Maloney: New York University; Jonathan D. Nelson: University of Surrey
9:00 – 4:00	6:00 – 1:00	14:00 – 21:00	Workshop #6 - Workshop on Scaling Cognitive Science Presenters – Jordan Suchow: Stevens Institute of Technology; Tom Griffiths: Princeton University; Joshua K. Hartshorne: Boston College
9:00 – 12:00	6:00 – 9:00	14:00 – 17:00	Workshop #7 - Improving Accessibility of Scientific Content for the Blind Through Cross-Sensory Methodologies Presenters – Pui Yee Nikkie To: OCAD University; Christopher M. Schiafone: University of Guelph-Humber; Marta Wnuczko: OCAD University; Peter Coppin: OCAD University; Runa Patel: York University; Robert Aaron Ingino: SenseTech Solutions
9:00 – 4:00	6:00 – 1:00	14:00 – 21:00	Workshop #8 - Practical Advice on How to Run Human Behavioral Studies Presenters – Frank E. Ritter: Pennsylvanian state university; Jonathan H. Morgan: Duke Network Analysis Center, USA; Jong W. Kim: Penn State
9:00 – 4:00	6:00 – 1:00	14:00 – 21:00	Workshop #9 - Building neural processing accounts of higher cognition in Dynamic Field Theory Presenters – Gregor Schöner: Ruhr-Universität Bochum; Aaron Buss: University of Tennessee



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TIME ZONES			DAY 1: JULY 30, 2020
TORONTO	LA	LONDON	
Track #1			
Poster Hall and Exhibit Hall On-Demand			
9:00 – 9:20	6:00 – 6:30	14:00 – 14:20	Welcome – Opening & Awards
9:20 – 11:00	6:20 – 8:00	14:40 – 16:00	Elman Prize Symposium Chair: Erik Theissen, Carnegie Mellon University Presenters: Erik Theissen, Carnegie Mellon University; Casey Lew-Williams, Princeton University; Jessica Hay, University of Tennessee Knoxville; Jenny Saffran, University of Wisconsin - Madison This symposium will honor Dr. Saffran's contributions to the scientific community. Dr. Saffran's interests concern a seminal question in cognitive science: How do children acquire language? Acquiring language depends on a combination of innate structure and learning from experience. Saffran and her colleagues developed laboratory methods to study the experiential input to infant language learning to test specific theories about how learning unfolds. Her experimental research demonstrates, quite remarkably, that humans, including infants, acquire language by tracking statistical information available in the environment. The Elman prize, and the symposium, also reflect the many contributions Dr. Saffran has made to nurturing a community of scientists, a goal reflected in her work as an undergraduate teacher, a graduate mentor, and a collaborator. Live Q&A Period



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11:00– 11:20	8:00 – 8:20	16:00 – 16:20	BREAK / SOCIAL TIME
11:20 – 13:00	8:20 – 10:00	16:20 – 18:00	Poster Session #1
13:00 – 14:00	10:00 – 11:00	18:00 – 19:00	Plenary Speaker: Janet Werker, University of British Columbia Moderator: Kyle Danielson, University of Toronto <i>Perceptual beginnings to language acquisition: Critical periods and multi-sensory influences</i> Live Q&A Period
14:00 – 14:20	11:00 – 11:20	19:00 – 19:20	BREAK / SOCIAL TIME
14:20 – 16:00	11:20 – 13:00	19:20 – 21:00	Invited Panel: Statistical Learning and Development Moderator: Amy Finn, University of Toronto IP1-1 <i>How statistical learning biases impact language structure: the impact of Zipfian distributions on word segmentation (Inbal Arnon & Ori Lavi-Rotbain)</i> (Inbal Arnon, Hebrew University of Jerusalem) IP1-2 <i>Insights into the developmental trajectory of statistical learning from EEG-based neural entrainment</i> (Laura Batterink, Western University) IP1-3 <i>Distributional learning from natural speech</i> (Naomi Feldman, University of Maryland)



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Track #2

9:20 – 11:00

6:20 – 8:00

14:40 – 16:00

IP4-4 *Changes in the stabilization and retention of new language learning across a period of early development* (Rebecca Gomez, University of Arizona)

IP1-Q Live Q&A Period

Getting Our Bearings: Advances in Understanding Spatial Reorientation

Symposium Chair: Nora Newcombe, Temple University

Presenters: Alexandre Duval, University of Sheffield; Sang Ah Lee, Korea Advanced Institute of Science and Technology; Anna Shusterman, Wesleyan University; Noam Miller, Wilfrid Laurier University; Nora Newcombe, Temple University

There is widespread agreement that environmental geometry can be used in reorientation by human children, adults and non-human species. However, there is less agreement about the use of landmarks or “features”. Human adults almost always use them, but feature use is less common in young children and non-human animal species. One way of explaining these facts is to suggest that there is widespread availability of a “geometric module” for reorientation by the shape of environmental enclosures, while the ability to use landmarks represents a signature achievement of human spatial cognition, related to an array of other abstract processes such as map use, spatial communication, and analogical reasoning (Lee & Spelke, 2010). This proposal is not the only way to account for the phenomena. Several other theoretical frameworks vie to account for the hundreds of empirical findings on reorientation. One possibility is that there is an early-arising capacity to use landmarks for spatial information, with an initially low ‘weight’ that becomes strengthened over time (adaptive combination models, Xu, Regier, & Newcombe, 2017). Other proposals involve view-matching accounts (Stürzl, Cheung, Cheng, & Zeil, 2008) and learning theory accounts (Miller & Shettleworth, 2007).



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14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

S1196-Q **Live Q&A Period**

Health beliefs and decision making

Symposium Chair: Micah Goldwater, University of Sydney

Presenters: Christine Legare, University of Texas at Austin; Zachary Horne, Arizona State University; Micah Goldwater, University of Sydney; Amy Perfors, University of Melbourne; Ellen Markman, Stanford University

There is widespread agreement that environmental geometry can be used in reorientation by human children, adults and non-human species. However, there is less agreement about the use of landmarks or “features”. Human adults almost always use them, but feature use is less common in young children and non-human animal species. One way of explaining these facts is to suggest that there is widespread availability of a “geometric module” for reorientation by the shape of environmental enclosures, while the ability to use landmarks represents a signature achievement of human spatial cognition, related to an array of other abstract processes such as map use, spatial communication, and analogical reasoning (Lee & Spelke, 2010). This proposal is not the only way to account for the phenomena. Several other theoretical frameworks vie to account for the hundreds of empirical findings on reorientation. One possibility is that there is an early-arising capacity to use landmarks for spatial information, with an initially low ‘weight’ that becomes strengthened over time (adaptive combination models, Xu, Regier, & Newcombe, 2017). Other proposals involve view-matching accounts (Stürzl, Cheung, Cheng, & Zeil, 2008) and learning theory accounts (Miller & Shettleworth, 2007).

S1234-Q **Live Q&A Period**



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Track #3

9:20 – 11:00

6:20 – 8:00

14:40 – 16:00

Toward a Unified Theory of Proportion

Symposium Chair: Michelle Hurst, University of Chicago

Presenters: Stephanie Denison, University of Waterloo; Michelle Hurst, University of Chicago; Yunji Park, University of Wisconsin-Madison; Jessica Cantlon; Carnegie Mellon University

Proportional reasoning is a ubiquitous part of the human experience. We engage in proportional reasoning to meet both informal and specialized goals across a range of domains, such as medicine (e.g., disease rates, drug dosages), finance and commerce (e.g., interest rates, discounts), cooking and baking (e.g., scaling ingredient amounts), and many others. Given this variation in usage, it may not be surprising that proportional reasoning does not have a singular definition or interpretation, but instead is a complex topic with many interconnected concepts. The central goal of this symposium is to shed light on this complexity by discussing diverse perspectives of proportional reasoning.

S1554-Q **Live Q&A Period**

14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Unravelling Past Cognition: Approaches Across Disciplines

Symposium Chair: Larissa Mendoza Straffon, University of Bergen

Presenters: Claudio Tennie, University of Tübingen; Dietrich Stout, Emory University ; Simon Greenhill, Max Planck Institute for the Science of Human History; Francesco D'Errico, University of Bordeaux

Throughout its own history, cognitive science has paid little interest to the historical dimension of its key topic. Most cognitive scientists tended to treat cognition as if it always and everywhere were the same (Bender, 2019). But present-day cognition in humans (as



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Track #4

9:20 – 11:00

6:20 – 8:00

14:40 – 16:00

Choices and Decisions

1803 ***Limits on Predictability of Risky Choice Behavior*** (Anjali Sifar, Indian Institute of Technology, Kanpur)

1588 ***What determines the learned predictiveness effect? Separating cue-outcome correlation from choice relevance*** (Jessica Lee, University of New South Wales)

2055 ***Exploration Decisions Precede and Improve Explicit Uncertainty Judgments in Preschoolers*** (Elizabeth Lapidow, University of California, San Diego)

1918 ***Prospect Theory and Optimal Risky Choices with Goals*** (Jana Jarecki, University of Basel)

well as in any other species for that matter) is a product of evolution – sometimes of different kinds of evolution – and has been subject to substantial change (Heyes, 2018). About 6 million years ago, the human line dissociated from its closest relatives, setting off on a different evolutionary track. Several hundred thousand years ago, early Homo sapiens learned to control fire, invented complex compound tools such as bow and arrow, and began to use abstract symbols and language (Wadley, 2013). Even today, these achievements strike us as truly impressive, yet they also raise tantalizing questions: What made them possible? Did they emerge all of a sudden, subsequent to genetic mutations, or did they emerge gradually, through cultural cumulation? Which factors spurred them on, which role(s) did culture play in this, and how are these innovations linked to language?

S1475-Q **Live Q&A Period**



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14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

2404 ***Toward Unifying Cognitive Architecture and Neural Task Set Theories*** (Bryan Stearns, University of Michigan)

Language and Groups

1830 ***Influence of partner behaviour on overspecification*** (Jia Loy, University of Edinburgh)

2366 ***Generalizing meanings from partners to populations: Hierarchical inference supports convention formation on networks*** (Robert Hawkins, Princeton University)

2380 ***Probabilistic weighting of perspectives in dyadic communication*** (Rachel Ryskin, Massachusetts Institute of Technology)

2433 ***Production expectations modulate contrastive inference*** (Elisa Kreiss, Stanford University)

2222 ***Does informational independence always matter? Children believe small group discussion is more accurate than ten times as many independent informants*** (Emory Richardson, Yale University)

Track #5

9:20 – 11:00

6:20 – 8:00

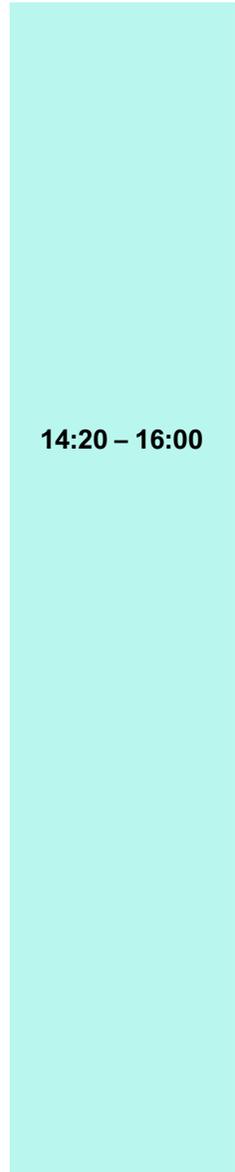
14:40 – 16:00

Neuroscience and Psychophysics

1025 ***Adaptations of Executive Function and Prefrontal Cortex Connectivity Following Exergame Play in 4- to 5-year old Children*** (Cassandra M Eng, Carnegie Mellon University)



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14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

1293 ***Dissociable systems for recognizing places and navigating through them: neuropsychological and developmental evidence*** (Frederik Kamps, MIT)

1708 ***Motor interference changes meaning*** (Omar Escamez, University of Granada)

2427 ***The “cognitive speed-bump”: How world champion Tetris players trade milliseconds for seconds*** (John K. Lindstedt, State University of New York at Oswego)

1719 ***Engaging with figurative language: insights from neuroimaging*** (Francesca M M Citron, Lancaster University)

Judgement and Decision Making

1734 ***Do you want to know a secret? The role of valence and delay in early information preference*** (Jake Ryan Embrey, The University of New South Wales)

2262 ***Knowledge Representations in Health Judgments*** (Wanling Zou, University of Warwick)

1139 ***Learning what is relevant for rewards via value-based serial hypothesis testing*** (Mingyu Song, Princeton University)

2175 ***Dual Processes in Relational Judgment: A Computational Framework*** (Sudeep Bhatia, University of Pennsylvania)

1308 ***Joint action planning: co-actors minimize the aggregate individual costs of actions*** (Georgina Török, Central European University)



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Track #6

9:20 – 11:00

6:20 – 8:00

14:40 – 16:00

Human Learning

2041 ***Explanation Supports Hypothesis Generation in Learning*** (Erik Brockbank, University of California San Diego)

1695 ***Analogical Transfer and Recognition Memory in Relational Classification Learning*** (Sean Snoddy, Binghamton University)

2007 ***Learning to build physical structures better over time*** (Judith E. Fan, University of California, San Diego)

2242 ***Effects of “chained” study on spontaneous relational discovery*** (Doug Markant, University of North Carolina at Charlotte)

1485 ***How a-priori biases affect sequence learning in a serial reaction time task*** (Amir Tal, Columbia University)

14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Facets of Cognition

1064 ***The Differential Relationship of Extracurricular Activities and Screen Time with Adolescents' Fluid and Crystallized Cognition*** (Jennifer Marie Weber, University of Colorado - Boulder)

2153 ***Quantifying Curiosity: A Formal Approach to Dissociating Causes of Curiosity*** (Emily G Liquin, Princeton University)

1951 ***Explaining the Existential: Functional Roles of Scientific and Religious Explanation*** (Telli Davoodi, Princeton University)



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Track #7

9:20 – 11:00

6:20 – 8:00

14:40 – 16:00

Semantics

2000 ***The latent factor structure of developmental change in early childhood*** (Ben Stenhaus, Stanford University)

1486 ***Examining Sustained Attention in Child-Parent Interaction: A Comparative Study of Typically Developing Children and Children with Autism Spectrum Disorder*** (Julia R Yurkovic, Indiana University)

1158 ***Systematicity in a Recurrent Neural Network by Factorizing Syntax and Semantics*** (Jacob Russin, UC Davis)

2493 ***Distinguishing Fact from Opinion: Effects of Linguistic Packaging*** (Elsi Kaiser, University of Southern California)

2424 ***Symmetric alternatives and semantic uncertainty modulate scalar inference*** (Brandon Waldon, Stanford University)

1268 ***Simple mechanisms, rich structure: Statistical co-occurrence regularities in language shape the development of semantic knowledge*** (Layla Unger, Ohio State University)

2463 ***Becoming Organized: How Simple Learning Mechanisms may Shape the Development of Rich Semantic Knowledge*** (Olivera Savic, Ohio State University)



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14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Language Development

2106 ***Structured ecologies for social and linguistic development*** (Joanna Rączaszek-Leonardi, University of Warsaw)

2204 ***Not what you expect: The relationship between violation of expectation and negation*** (Victor Gomes, University of Pennsylvania)

1122 ***Can Automated Gesture Recognition Support the Study of Child Language Development?*** (Soumitra Samanta, University of Liverpool)

2246 ***The (Un)Surprising Kindergarten Path*** (Zoe Ovans, University of Maryland)

Track #8

9:20 – 11:00

6:20 – 8:00

14:40 – 16:00

Modeling Language

1353 ***A Model of Temporal Connective Acquisition*** (Mark Antony Gorenstein, UC Berkeley)

1019 ***Towards a Complete Model of Reading: Simulating Lexical Decision, Word Naming, and Sentence Reading with Über-Reader*** (Aaron Veldre, The University of Sydney)

1745 ***Interactions of length and overlap in the TRACE model of spoken word recognition*** (James Magnuson, University of Connecticut)

1727 ***A Computational Analysis of the Constraints on Parallel Word Identification*** (Erik D Reichle, Macquarie University)



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14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

2255 ***Corrective Processes in Modeling Reference Resolution*** (Constantine Nakos, Northwestern University)

Neural Networks

1162 ***Context variability promotes generalization in reading aloud: Insight from a neural network simulation*** (Ian Dennis Miller, University of Toronto)

2216 ***Neural Language Models Capture Some, But Not All Agreement Attraction Effects*** (Suhas Arehalli, Johns Hopkins University)

1266 ***Probing Neural Language Models for Human Tacit Assumptions*** (Nathaniel Weir, Johns Hopkins University)

Track #9

9:20 – 11:00

6:20 – 8:00

14:40 – 16:00

Memory

1283 ***Forming Concepts of Mozart and Homer Using Short-Term and Long-Term Memory: A Computational Model Based on Chunking*** (Dmitry Bennett, University of Liverpool)

1170 ***Using Emails to Quantify the Impact of Prior Exposure on Word Recognition Memory*** (Hyungwook Yim, The University of Melbourne)

2184 ***Proceduralization and Working Memory in Association Learning*** (Philip Newlin, Mississippi State University)

2180 ***Understanding Memory for WHERE using Smartphone Data*** (Simon Dennis, The University of Melbourne)



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14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

1774 ***Prefrontal-striatal circuitry supports adaptive memory prioritization across development*** (Kate Nussenbaum, New York University)

Events, Actions & Sequencing

1709 ***How to Help Best: Infants' Changing Understanding of Multistep Actions Informs their Evaluations of Helping*** (Brandon Matthew Woo, Harvard University)

1975 ***Ten-month-olds infer relative costs of different goal-directed actions*** (Barbara Pomiechowska, Central European University)

2320 ***A rational model of sequential self-assessment*** (Rachel Jansen, University of California, Berkeley)

1272 ***Illusory causal connections and their effect on subjective probability*** (Sami R Yousif, Yale University)

1980 ***Intentionality Effects on Event Boundaries*** (Ariel Mathis, University of Pennsylvania)

Track #10

9:20 – 11:00

6:20 – 8:00

14:40 – 16:00

Gender and Individuals

2391 ***Paradoxical Gender Gaps in Mathematics Achievement: Pressure as a key*** (Almaz Mesghina, TERC)

1736 ***Gender convergence in the expressions of love: A computational analysis of lyrics*** (Lana El Sanyoura, University of Toronto)



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14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

1043 ***Embodiment and gender interact in alignment to TTS voices*** (Michelle Cohn, UC Davis)

2453 ***Preschoolers use minimal statistical information about social groups to infer the preferences and group membership of individuals*** (Natalia A Vélez, Stanford University)

Emotions and Beliefs

2217 ***The Emotion-Induced Belief-Amplification Effect*** (Madalina Vlasceanu, Princeton University)

1930 ***How do Emotions Change during Learning with an Intelligent Tutoring System? Metacognitive Monitoring and Performance with MetaTutor*** (Miss Elizabeth B Cloude, University of Central Florida)

1449 ***Emotional Words – The Relationship of Self- and Other-Annotation of Affect in Written Text*** (Nadine Braun, Tilburg University)

1932 ***Inconsistencies Among Beliefs as a Basis for Learning via Thought Experiments*** (Igor Bascandziev, Rutgers University)

2214 ***Crowdsourcing to Analyze Belief Systems Underlying Social Issues*** (John Hunter Priniski, University of California, Los Angeles)



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TIME ZONES			DAY 2: JULY 31, 2020
TORONTO	LA	LONDON	
			Poster Hall and Exhibit Hall On-Demand
			Business Meeting On-Demand
Track #1			
9:00 – 10:40	6:00 – 7:40	14:00 – 15:40	Invited Panel: Fostering Deep Integration Between Development and Different Domains of Cognitive Science Moderator: Daphna Buchsbaum, Brown University IP2-1 <i>Large-scale models of biological cognition</i> (Chris Eliasmith, University of Waterloo) IP2-2 <i>How to know</i> (Celeste Kidd, University of California, Berkeley) IP2-3 <i>The cognitive tradeoff hypothesis of memory and symbolic representation in humans and chimpanzees</i> (Tetsuro Matsuzawa, Kyoto University) IP2-4 <i>The case for procedural metacognition</i> (Joelle Proust, Ecole Normale Supérieure) IP2-Q Live Q&A Period
10:40– 11:00	7:40 – 8:00	15:40 – 16:00	BREAK / SOCIAL TIME



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11:00 – 12:40	8:00 – 9:40	16:00 – 17:40	Poster Session #2
12:40 – 13:00	9:40 – 10:00	17:40 – 18:00	BREAK / SOCIAL TIME
13:00 – 14:00	10:00 – 11:00	18:00 – 19:00	Plenary Speaker: Geoffrey Hinton, University of Toronto Moderator: Jay McClelland, University of Toronto <i>The deep learning revolution</i> Live Q&A Period
14:00 – 14:20	11:00 – 11:20	19:00 – 19:20	BREAK / SOCIAL TIME
14:20 – 16:00	11:20 – 13:00	19:20 – 21:00	Rumelhart Prize Talk: Stanislas Dehaene, College de France <i>Probing the singularity of the human brain from numbers to symbols and mathematics</i>
Track #2			
9:00 – 10:40	6:00 – 7:40	14:00 – 15:40	New Measures for the Fundamentals of Human Performance Symposium Chair: Wayne D. Gray, Rensselaer Polytechnic Institute Presenters: Roussel Rahman, Rensselaer Polytechnic Institute; Chris R. Sims, Rensselaer Polytechnic Institute; Elizabeth B. Torres, Rutgers University; Travis J. Wiltshire, Tilburg University We bring together researchers who apply a variety of mathematical tools in their research on human performance. Travis Wiltshire examines the social interactions of team members.



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Track #3

9:00 – 10:40

6:00 – 7:40

14:00 – 15:40

Learning via Insight

Symposium Chair: Margaret Webb, University of Melbourne

Presenters: Linden Ball, University of Central Lancashire; Maxi Becker, University Medical Center Hamburg; Jasmin Kizilirmak, German Center for Neurodegenerative Diseases; Thomas Colin, University of Plymouth

Problem solving can be understood as a very active learning strategy which is also being employed in education, even though the mechanisms behind it are poorly understood (Loyens, Kirschner, & Paas, 2012). Insight in problem solving is often heralded as a moment of blinding understanding which generates a great deal of motivation (Liljedahl, 2005). Research on insight focuses on these moments, examining the cognitive processes that lead to this feeling of sudden understanding alongside the solution, and on methods of eliciting these electrifying sensations reliably (e.g., Webb, Little, & Cropper, 2017). An important consideration in insight research is the considerable differences in operationalizations of “insight” between studies. For example, Mednick (1962) operationalised insight/creativity as the ability to solve a verbal association problem (the remote associates task, RAT), in which participants are presented with three remotely associated words, and are required to find a single fourth word that provides a common link between the three (e.g., cottage, blue, goat–cheese). If the words were already closely associated, it would not require creativity to find the missing link. Insight has therefore



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Track #4

9:00 – 10:40

6:00 – 7:40

14:00 – 15:40

Complex Dynamics

2033 ***Concealable Stigmatized Identity Disclosure as a Possible Perturbation to Complex Social Systems*** (Hannah Douglas, Macquarie University)

1478 ***Quantifying Emergent, Dynamic Tonal Coordination in Collaborative Musical Improvisation*** (Matthew Setzler, Indiana University)

1690 ***Mental state inference from indirect evidence through Bayesian event reconstruction*** (Michael Lopez-Brau, Yale University)

2460 ***Formalizing Interdisciplinary Collaboration in the CogSci Community*** (Lauren A Oey, University of California, San Diego)

2015 ***Loss Functions Modulate the Optimal Bias-Variance Trade-off*** (Adam Bear, Harvard University)

sometimes been operationalized as a sudden switch from a state of incomprehension, to a state of comprehension, which might be induced by presenting the solution (Auble et al., 1979; Webb et al., 2018). This definition has held for a long time, with substantial shifts in more recent years. Increasingly, the presence of a subjective “aha!” experience is considered necessary to interpret a solution to a problem as an insight (e.g., Bowden & Jung-Beeman, 2003). Finally, some researchers have proposed that insight does not necessarily include a state of incomprehension, but needs mental restructuring (Wills, Estow, Soraci, & Garcia, 2006).

S1753-Q **Live Q&A Period**



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Track #5

9:00 – 10:40

6:00 – 7:40

14:00 – 15:40

Learning and Development

1358 ***Awe yields learning: A virtual reality study*** (Hedwig Anna Theresia van Limpt - Broers, Tilburg University)

1519 ***Hearing water temperature: Characterizing the development of nuanced perception of auditory events*** (Tanushree Agrawal, University of California San Diego)

1683 ***Specificity of Infant Statistical Learning*** (Sara Parvanezadeh Esfahani, University of Tennessee)

2357 ***Children hear more about what is atypical than what is typical*** (Claire Bergey, The University of Chicago)

1301 ***For 19-Month-Olds, What Happens On the Screen Stays On the Screen*** (Barbu Revencu, Central European University)

Track #6

9:00 – 10:40

6:00 – 7:40

14:00 – 15:40

Numerosity

1405 ***Dynamics vs. Development in Numerosity Estimation: A Computational Model Accurately Predicts a Developmental Reversal*** (Dan Kim, The Ohio State University)

2086 ***Children use one-to-one correspondence to establish equality after learning to count*** (Rose M. Schneider, University of California San Diego)



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Track #7

9:00 – 10:40

6:00 – 7:40

14:00 – 15:40

Language and Meaning

2131 ***How Reliable is the Give-a-Number task?*** (Elisabeth Marchand, University of California San Diego)

2256 ***Starting small: Exploring the origins of successor function knowledge*** (Rose M. Schneider, UC San Diego)

2383 ***Does the number sense represent number?*** (Sam Pablo Clarke, York University)

2485 ***Informational goals, sentence structure, and comparison class inference*** (Michael Henry Tessler, MIT)

1456 ***Do Taxonomic and Associative Relations Affect Word Production in the Same Way?*** (Nazbanou Nozari, Carnegie Mellon University)

2011 ***Metaphors: Where the neighborhood in which one resides interacts with (interpretive) diversity*** (J. Nick Reid, Western University)

1332 ***Reconstructing Maps from Text*** (Johnathan E Avery, Indiana University)

1182 ***Does Language Model Surprisal Measure Code Comprehension?*** (Casey Casalnuovo, University of California, Davis)



CogSci 2020 Searchable Program

Track #8

9:00 – 10:40

6:00 – 7:40

14:00 – 15:40

Speech and Phonetics

1157 *Evaluating computational models of infant phonetic learning across languages* (Yevgen Matuskevych, University of Edinburgh)

1955 *Input matters in the modeling of early phonetic learning* (Ruolan Li, University of Maryland)

2324 *Learning from the acoustic signal: Error-driven learning of low-level acoustics discriminates vowel and consonant pairs* (Jessie S. Nixon, Quantitative Linguistics, University of Tübingen)

2341 *The Perceptimatic English Benchmark for Speech Perception Models* (Juliette Millet, Université de Paris, CNRS)

2464 *A Model of Prenatal Acquisition of Vowels* (Katerina Chladkova, Institute of Psychology, Czech Academy of Sciences)

Track #9

9:00 – 10:40

6:00 – 7:40

14:00 – 15:40

Spatial Cognition

1175 *The semantics of spatial demonstratives* (Mikkel Wallentin, Aarhus University)

1711 *A Cross-Cultural Principle Of Temporal Spatialization* (Carmen Callizo-Romero, University of Granada)



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Track #10

9:00 – 10:40

6:00 – 7:40

14:00 – 15:40

Categorization

1012 ***Identifying the neural dynamics of category decisions with computational model-based fMRI*** (Michael L. Mack, University of Toronto)

2362 ***End-to-end Deep Prototype and Exemplar Models for Predicting Human Behavior*** (Pulkit Singh, Princeton University)

1181 ***Contrasting Exemplar and Prototype Models in a Natural-Science Category Domain*** (Robert Nosofsky, Indiana University)

2431 ***The evolution of category systems within and between learners*** (Vanessa Ferdinand, University of Melbourne)

1337 ***The Effects of Feature Verbalizability on Category Learning*** (Bailey Brashears, The University of Western Ontario)



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TIME ZONES			DAY 3: AUGUST 1, 2020
TORONTO	LA	LONDON	
Track #1			Poster Hall and Exhibit Hall On-Demand
			Business Meeting On-Demand
9:00 – 11:20	6:00 – 8:20	14:00 – 16:20	Glushko Dissertation Prize Talks <i>Linguistic diversity in the wild</i> (Damian Blasi, Max Planck Institute for Mathematics in the Sciences) <i>The evolutionary, developmental, and cultural origins of human thought</i> (Stephen Ferrigno, University of Rochester) <i>Preservation and plasticity in the neural basis of numerical thinking in blindness</i> (Shipra Kanjlia, Johns Hopkins University) <i>Beyond bounded rationality: Reverse-engineering and enhancing human intelligence</i> (Falk Lieder, University of California, Berkeley) <i>Temporal dynamics of episodic memory reinstatement</i> (Sebastian Michelmann, University of Birmingham) <i>How Grammars Grow: Argument Structure and the Acquisition of Non-Basic Syntax</i> (Laurel Perkins, University of Maryland) <i>A Cognitive Science of the Ideological Mind</i> (Leor Zmigrod, University of Cambridge)



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11:00 – 12:40	8:00 – 9:40	16:00 – 17:40	Poster Session #3
12:40 – 13:40	9:40 – 10:40	17:40 – 18:40	Plenary Speaker: Cecilia Heyes, University of Oxford Moderator: Robert Goldstone, Indiana University <i>Cognitive Gadgets - New Thinking from Old Parts</i> Live Q&A Period
13:40 – 14:00	10:40 – 11:00	18:40 – 19:00	BREAK / SOCIAL TIME
14:00 – 15:40	11:00 – 12:40	19:00 – 20:40	Invited Panel: The Impact of Social, Cultural and Linguistic Constraints on Development Moderator: Berend Beekhuizen, University of Toronto IP3-1 <i>Normative Knowledge in Great Apes</i> (Kristin Andrews, York University) IP3-2 <i>The learnability of grammatical generalizations from linguistic input: insights from deep learning</i> (Roger Levy, MIT) IP3-3 <i>Do capuchin monkeys, chimpanzees and preschoolers form abstract rules from minimal input?</i> (Amanda Seed, University of St Andrews) IP3-4 <i>Languages adapt to the communicative needs of their users</i> (Kenny Smith, University of Edinburgh) IP3-Q Live Q&A Period



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15:40 – 16:00

12:40 – 13:00

20:40 – 21:00

Closing Ceremony

Track #2

9:00 – 10:40

6:00 – 7:40

14:40 – 16:00

Cognitive models of time: Across the lifespan, the world, and the mind

Symposium Chair: Katharine A Tillman, University of Texas at Austin

Presenters: Ben Pitt, UC Berkeley; Andrea Bender, University of Bergen; Ariel Starr, University of Washington; Jeni Pathman, University of Washington; Jeni Pathman, York University

How is it possible to mentally represent abstract concepts? One abstract domain, which has been explored by scholars across disciplines, is time. A concept of time allows us to understand our world and our memories, and to make decisions. However, “the concept of time” is a vast oversimplification. Time encompasses durations, sequences, locations relative to the ego, Newtonian beliefs, causal reasoning, linguistic structure, episodic memory, the “mental timeline,” and more. These facets of time span the gamut from perception to cognition, and scientists across fields explore relevant questions. However, they often do not use the same methods, vocabulary, or populations. The complexity of temporal cognition means that, if scientists are ever going to get a handle on the psychological nature of time, interdisciplinary dialog is necessary.

S1390-Q **Live Q&A Period**

14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Where is Cognitive Science Now?

Symposium Chair: Carson G Miller Rigoli, UC San Diego



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Track #3

9:00 – 10:40

6:00 – 7:40

14:40 – 16:00

Presenters: Rafael Nunez, University of California, San Diego; Carson Miller Rigoli, C San Diego; Andrea Bender, University of Bergen; Ashok Goel, Georgia Institute of Technology; Robert Goldstone, Indiana University

An important goal of cognitive science, identified by many earlier practitioners and proponents of the field, was to form a well-integrated study of the mind within a coherent theoretical framework that would bring together several existing disciplines including cognitive psychology, linguistics, philosophy, artificial intelligence, neuroscience and anthropology (Collins, 1977; Gardner, 1987; Miller, 2003; Boden, 2006). There is little doubt that cognitive science is, and has been, multi-disciplinary — it fosters the interchange of ideas from multiple disciplines. However, it is less clear whether cognitive science has developed into the envisioned integrated inter-discipline, with a cohesive theoretical framework and common methodologies (Van den Besselaar & Heimeriks, 2001). Although often used interchangeably, multi- and inter-disciplinarity are different (Choi & Pak, 2006) and have distinct educational, theoretical, and institutional implications. Speakers in this symposium will address this question using qualitative and quantitative evidence and further discuss their visions for the future of the field given its current status.

S1603-Q **Live Q&A Period**

Computational approaches to analyzing and generating comics

Symposium Chair: Neil Cohn, Tilburg University

Presenters: Neil Cohn, Tilburg University; Aditya Upadhyayula, Johns Hopkins University; Chris Marten, North Carolina State University

The past decade has seen an increasing focus on visual narratives like comics as an area for investigating numerous facets of cognition across numerous subfields of Cognitive Science (Cohn & Magliano, 2019). While early work focused on applying linguistic theories to analyze the structure of these visual and multimodal narratives, empirical work has



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14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

extended to methods in cognitive psychology and cognitive neuroscience. This research has illustrated how the visual representations of sequential images share structural properties with language, and often overlap in their neurocognitive comprehension mechanisms (Cohn, 2019), albeit manifested in the visual-graphic modality rather than the verbal modality. Adjacent to this has been a growing focus on computational methods applied to comics (Augereau, Iwata, & Kise, 2018; Laubrock & Dunst, 2019). These include the use of computational modeling to analyze corpora of comics, the use of parsers to extract underlying properties of comics and their comprehension, and the programming of computational systems to generate novel comics. These approaches again provide opportunities to integrate various facets of cognition, as they combine analytical methods often used to analyze or generate text alongside those often applied to visual representations.

S1461-Q **Live Q&A Period**

Agent-based Models

1849 ***Simulating Early Word Learning in Situated Connectionist Agents*** (Felix Hill, DeepMind)

1979 ***Social Foraging in Groups of Search Agents with Human Intervention*** (Daniel S. Schloesser, University of California, Merced)

2013 ***Too many cooks: Coordinating multi-agent collaboration through inverse planning*** (Sarah A. Wu, Massachusetts Institute of Technology)

2435 ***Learning in Social Environments with Curious Neural Agents*** (Megumi Sano, Stanford University)

1740 ***How do disparities reproduce themselves? "Ground truth" inference from utility-maximizing agent's sampling behavior*** (Yuan Meng, Berkeley)



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Track #4

9:00 – 10:40

6:00 – 7:40

14:40 – 16:00

Reading and Processing

1288 ***Online Article Comprehension in Monolingual Spanish-Speaking Preschoolers with Specific Language Impairment: A Language-Mediated Visual Attention Study*** (Ernesto Guerra, Universidad de Chile)

2308 ***Event-related potentials reveal differences between foveal and parafoveal integration of visual and contextual information during sentence processing*** (Sara Milligan, University of South Florida)

2110 ***Synchrony and asynchrony of the two eyes in binocular fixations in the reading of English and Chinese; the implications for ocular prevalence*** (Ruomeng Zhu, The University of Edinburgh)

1564 ***Task effects on the lexical boost effect in structural priming*** (Roger P.G. van Gompel, University of Dundee)

1155 ***Is Segmental Interference Position-dependent?*** (Nazbanou Nozari, Carnegie Mellon University)

14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Social Learning

1993 ***A Bayesian Model of Social Influence under Risk and Uncertainty*** (Simon Ciranka, Max Planck Institute for Human Development)

2268 ***How much to copy from others? The role of partial copying in social learning*** (Chelsea Campbell, Indiana University)



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Track #5

9:00 – 10:40

6:00 – 7:40

14:40 – 16:00

Language and Uncertainty

2407 ***Hatred is in the Eye of the Annotator: Hate Speech Classifiers Learn Human-Like Social Stereotypes*** (Aida Mostafazadeh Davani, University of Southern California)

1990 ***Relative deprivation and social identity in laboratory based riots: A model*** (James Allen, UCL)

2343 ***Givenness Hierarchy Theoretic Cognitive Status Filtering*** (Poulomi Pal, Colorado School of Mines)

1242 ***When Generic Language does not Promote Psychological Essentialism*** (Nadya Vasilyeva, Princeton University)

1793 ***Measuring prosodic predictability in children's home language environments*** (Kyle MacDonald, McD Tech Labs)

1739 ***Forward-looking Effects in Subject Pronoun Interpretation: What Comes Next Matters*** (Jina Song, University of Southern California)

2163 ***Learner dynamics in a model of wug inflection: integrating frequency and phonology*** (Stella Frank, University of Edinburgh)

1410 ***Learning under uncertainty changes during adolescence*** (Liyu Xia, University of California, Berkeley)



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14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Forms of Learning

2083 *Relation learning in a neurocomputational architecture supports cross-domain transfer* (Leonidas A. A. Doumas, University of Edinburgh)

1394 *Unconscious learning of automatic inhibition is reflected in frontal theta and sensorimotor oscillations* (Silvia Isabella, University of Toronto)

1103 *Metacognition and Motivation: The Role of Time-Awareness in Preparation for Future Learning* (Mark Abdelshiheed, North Carolina State University)

1911 *Can I get your (robot) attention? Human sensitivity to subtle hints of human-likeness in a humanoid robot's behavior* (Davide Ghiglino, Istituto Italiano di Tecnologia)

1654 *Exploratory play, rational action, and efficient search* (Junyi Chu, Massachusetts Institute of Technology)

Track #6

9:00 – 10:40

6:00 – 7:40

14:40 – 16:00

Linguistics

2289 *Linguistic Overhypotheses in Category Learning: Explaining the Label Advantage Effect* (Anna Ivanova, MIT)

2295 *An efficient communication analysis of morpho-syntactic grammatical features* (Francis Mollica, University of Melbourne)

1597 *Prototype theory and emotion semantic change* (Aotao Xu, University of Toronto)

2430 *Universal linguistic inductive biases via meta-learning* (Richard Thomas McCoy, Johns Hopkins University)



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14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

2363 ***Birds and Words: Exploring environmental influences on folk categorization***
(Joshua T Abbott, University of Melbourne)

Reasoning

1712 ***Morality justifies motivated reasoning*** (Corey Cusimano, Princeton University)

2045 ***Improving Cognitive Models for Syllogistic Reasoning*** (Jonas Bischofberger, University of Freiburg)

1051 ***Incremental Hypothesis Revision in Causal Reasoning Across Development***
(Rebekah Gelpi, University of Toronto)

1900 ***A New Approach to Testimonial Conditionals*** (Stephan Hartmann, LMU Munich)

1408 ***...that P is relevant for Q': Indicative conditionals and learning from testimony***
(Karolina Krzyzanowska, University of Amsterdam)

Track #7

9:00 – 10:40

6:00 – 7:40

14:40 – 16:00

Comparative and Cultural Cognition

1870 ***Reverse engineering the origins of visual intelligence*** (Justin N Wood, Indiana University)

1374 ***Rational After All: Changes in Probability Matching Behaviour Across Time in Humans and Monkeys*** (Carmen Saldana, The University of Edinburgh)

2113 ***Repetition Suppression in Low- and High-Order Regions of the Primate Visual Cortex*** (Nathaniel Williams, Carnegie Mellon University)



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14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Pragmatics

1915 ***“Think” and “believe” across cultures: A shared folk distinction between two cognitive attitudes in the US, Ghana, Thailand, China, and Vanuatu*** (Neil Van Leeuwen, Georgia State University)

2145 ***Comparing Adaptive and Random Spacing Schedules during Learning to Mastery Criteria*** (Everett Mettler, University of California, Los Angeles)

2025 ***Learning to refer informatively by amortizing pragmatic reasoning*** (Julia White, Stanford University)

1611 ***Are you thinking what I’m thinking? Perspective-taking in a language game*** (Johanne Nedergaard, Aarhus University)

1011 ***Visual Grouping and Pragmatic Constraints in the Generation of Quantified Descriptions*** (Gordon Briggs, U.S. Naval Research Laboratory)

2028 ***Recursive Adversarial Reasoning in the Rock, Paper, Scissors Game*** (Erik Brockbank, University of California San Diego)

1458 ***Parents scaffold the formation of conversational pacts with their children*** (Ashley C Leung, University of Chicago)

Track #8

9:00 – 10:40

6:00 – 7:40

14:40 – 16:00

Concepts and Systems

1061 ***Prevalence-Induced Concept Change in Older Adults*** (Sean Devine, Concordia University)



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14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Word Learning

2413 ***Nameability affects subjective and objective measures of visual similarity*** (Martin Zettersten, University of Wisconsin-Madison)

1956 ***Separability and the Effect of Valence. An Empirical Study of Thick Concepts*** (Pascale Willemsen, University of Zurich)

1941 ***Simple kinship systems are more learnable*** (Kenny Smith, University of Edinburgh)

2102 ***The Paradox of Time in Dynamic Causal Systems*** (Zach Davis, NYU)

1977 ***A Computational Model of Early Word Learning from the Infant's Point of View*** (Satoshi Tsutsui, Indiana University)

2062 ***Decoding Eye Movements in Cross-Situational Word Learning via Tensor Component Analysis*** (Andrei Amatuni, Indiana University)

2056 ***Child-directed speech: the impact of variations in speaking rate on word learning*** (Jinyu Shi, University College London)

1287 ***Active Word Learning through Self-supervision*** (Lieke Gelderloos, Tilburg University)

1731 ***Predicting Age of Acquisition in Early Word Learning Using Recurrent Neural Networks*** (Eva Portelance, Stanford University)



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Track #9

9:00 – 10:40

6:00 – 7:40

14:40 – 16:00

Biases

1058 ***Bootstrap Hell: Perceptual Racial Biases in a Predictive Processing Framework***
(Zachariah A. Neemeh, University of Memphis)

1892 ***Overconfident in Hindsight: Memory, Hindsight Bias and Overconfidence***
(Matthew Brian Welsh, University of Adelaide)

2043 ***The contingency illusion bias as a potential driver of science denial*** (Justin Sulik,
Ludwig Maximilian University of Munich)

2202 ***Population-level amplification of perceptual bias*** (Mathew Hardy, Princeton
University)

1310 ***Object Bias Disrupts Rule-Based Generalization in Adults Across Domains*** (Evan
Orticio, Swarthmore College)

14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Attention and Faces

1530 ***Modeling temporal attention in dynamic scenes: Hypothesis-driven resource allocation using adaptive computation explains both objective tracking performance and subjective effort judgments*** (Mario Belledonne, Yale University)

2029 ***Foraging in the Virtual Himalayas: Intrinsic and Extrinsic Factors in Search***
(Ketika Garg, UC Merced)

1612 ***The role of eye movement consistency in learning to recognise faces: Computational and experimental examinations*** (Janet Hsiao, University of Hong Kong)



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Track #10

9:00 – 10:40

6:00 – 7:40

14:40 – 16:00

Social Inference

2244 ***Face Selectivity in Social (But Not Perceptual) Areas of the Infant Brain*** (Heather L Kosakowski, MIT)

2326 ***Leveraging Computer Vision Face Representation to Understand Human Face Representation*** (Chaitanya K Ryali, UC San Diego)

1954 ***Detecting social information in a dense database of infants' natural visual experience*** (Bria Long, Stanford University)

2094 ***Children use inverse planning to detect social transmission in design of artifacts*** (Madison L Pesowski, University of California, San Diego)

2233 ***Children use agents' response time to distinguish between memory and novel inference*** (Emory Richardson, Yale University)

2378 ***Social Offloading: Just Working Together is Enough to Remove Semantic Interference*** (Miles R A Tufft, Department of Experimental Psychology)

2469 ***Stubborn extremism as a potential pathway to group polarization*** (Matthew Adam Turner, University of California, Merced)



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POSTER SESSION #1

July 30, 2020, 11:20 – 13:00 EDT

- P-1-1** Tracing the Emergence of Gendered Language in Childhood **Poster Presenter:** Ben Prystawski
- P-1-2** Self-Other Similarity Modulates the Socially-Triggered Context-Based Prediction Error Effect on Memory **Poster Presenter:** Madalina Vlasceanu
- P-1-3** A Meta-Analytic Review of Verbal Overshadowing Effect on Insight Problem Solving Using Bayes Factors **Poster Presenter:** Sachiko Kiyokawa
- P-1-4** Covert attention shift by Sequence-space synesthesia (SSS): a cognitive grammar approach **Poster Presenter:** mohsen dolatabadi
- P-1-5** Effect of interpersonal distance on unintentional posture synchrony **Poster Presenter:** Kae Mukai
- P-1-6** When and how do toddlers in rural Western Kenya understand the referential nature of pictures? **Poster Presenter:** Rebecca Zhu
- P-1-7** Improving Multi-Agent Cooperation using Theory of Mind **Poster Presenter:** Desmond Ong
- P-1-8** Restricted Access to Working Memory Does Not Prevent Cumulative Improvement in a Cultural Evolution Task. **Poster Presenter:** Ms Juliet Dunstone
- P-1-9** Is She a Good Teacher? Children Learn to use Meaningful Gesture as a Marker of a Good Informant **Poster Presenter:** Elizabeth M Wakefield
- P-1-10** Beyond Pattern Completion with Short-Term Plasticity **Poster Presenter:** Kevin Shabahang
- P-1-11** Does Children's Visual Attention to Objects Influence their Verb Learning? **Poster Presenter:** Jane B. Childers
- P-1-12** Model gender influences emotion categorization **Poster Presenter:** Rista C Plate
- P-1-13** A Large-Scale Analysis of Attentional Deployment across One Hundred Sessions of Adaptive Multitask Training **Poster Presenter:** Omar Clafin
- P-1-14** Children's age-related transition from associative learning processes to reasoning-based social learning strategies **Poster Presenter:** Kirsten H Blakey
- P-1-15** I don't know if you did it, but I know why: A 'motive' preference at multiple stages of the legal-investigative process **Poster Presenter:** Alice Liefgreen
- P-1-16** An evidence accumulation model of motivational and developmental influences over sustained attention **Poster Presenter:** Harrison Ritz
- P-1-17** Role of Working Memory in Language Activation during Visual Scene Processing **Poster Presenter:** Matias Fernandez-Duque



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- P-1-18** Limitations of Statistical Learning: the Case of Paradigmatic Relations **Poster Presenter:** Dr. Hyungwook Yim
- P-1-19** Pretend Play and Children’s Self-Regulation and Language Skills: An Interventional Study **Poster Presenter:** Tanya M Paes
- P-1-20** Gaze behavior in a review-a-definition task **Poster Presenter:** Koki Saito
- P-1-21** Testing the immediate effects of transcranial Direct Current Stimulation (tDCS) on face recognition skills. **Poster Presenter:** Dr. Ciro Civile
- P-1-22** Auditory, Visual, and Speech Category Learning in the Same Individuals **Poster Presenter:** Casey L Roark
- P-1-23** Partner-specific adaptation in disfluency processing **Poster Presenter:** SiOn Yoon
- P-1-24** Inverse Rendering Best Explains Face Perception Under Extreme Illuminations **Poster Presenter:** Bernhard Egger
- P-1-25** Great expectations: Evidence for graded prediction of grammatical gender **Poster Presenter:** Katja I. Haeuser
- P-1-26** Some Determinants of Chunk Size in Sequential Behavior: Individual Differences in the Transcription of Alphanumeric Strings **Poster Presenter:** Peter Cheng
- P-1-27** The Perception-Action Loop in a Predictive Agent **Poster Presenter:** Murchana Baruah
- P-1-28** Sleep-associated consolidation in app-based language learning **Poster Presenter:** Dr. Emma James
- P-1-29** Experiential Explanations in Iterated Learning **Poster Presenter:** Dr. Sara Aronowitz
- P-1-30** Game On: Mastery Orientation Through the Lens of a Challenging Video Game **Poster Presenter:** Craig G Anderson
- P-1-31** Personal Identity and Online Communities **Poster Presenter:** Dr. Selene Arfini
- P-1-32** The meaning-sound systematicity also found in the Korean language **Poster Presenter:** Hana Jee
- P-1-33** Measuring neural correlates of infant statistical learning using functional near-infrared spectroscopy **Poster Presenter:** Halie Olson
- P-1-34** The “Fraction Sense” Emerges from a Deep Convolutional Neural Network **Poster Presenter:** Yun-Shiuan Chuang
- P-1-35** Is there a spatial Dunning-Kruger effect? And how is it influenced by gender? **Poster Presenter:** Jose De Jesus Sotelo
- P-1-36** Pictures facilitate recognition and retrieval speeds of associations between words in a second language and referents **Poster Presenter:** Toshimune Kambara
- P-1-37** The effect of cheerleading chants on time estimation performance **Poster Presenter:** PhD. Yoshiko Yabe



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- P-1-38** Motion recognition with biologically plausible spiking neural networks **Poster Presenter:** Souichirou Harada
- P-1-39** The Emergence of Action-grounded Compositional Communication **Poster Presenter:** Julian Zubek
- P-1-40** Can preschoolers use probability to infer others' desires? **Poster Presenter:** Tiffany Doan
- P-1-41** Lexical Associations in a Native and Non-Native Language Affect Retrieval Induced Forgetting **Poster Presenter:** Karina Tachihara
- P-1-42** How children learn non-obvious conceptual information from caregivers in naturalistic settings **Poster Presenter:** Elizabeth Attisano
- P-1-43** Reducing the Perceived Reliability of an External Store Reduces Susceptibility to External Store Manipulation. **Poster Presenter:** April Emily Pereira
- P-1-44** Ask or Tell: Balancing questions and instructions in intuitive teaching **Poster Presenter:** Pamela Joy Osborn Popp
- P-1-45** Probability and processing speed of scalar inferences is context-dependent **Poster Presenter:** Leyla Kursat
- P-1-46** Effects of Voiced Initial Consonants in Japanese Sound-Symbolic Words: Experiment 3 **Poster Presenter:** Eisuke Osawa
- P-1-47** Nonlinear Probability Weighting Can Reflect Attentional Biases in Sequential Sampling **Poster Presenter:** Veronika Zilker
- P-1-48** Co-occurrences and temporal distribution of caregiver's indexical multimodal cues in real-world interactions **Poster Presenter:** Xuanyi Chen
- P-1-49** A Visual Recall Paradigm to Assess Implicit Statistical Learning **Poster Presenter:** Ms Holly E Jenkins
- P-1-50** A Computational Approach for Predicting Individuals' Response Patterns in Human Syllogistic Reasoning **Poster Presenter:** Emmanuelle-Anna Dietz Saldanha
- P-1-51** Better together: Exploration prior to instruction facilitates rule-learning and modifies attention to demonstration **Poster Presenter:** Mia Radovanovic
- P-1-52** Belief revision in a micro-social network: Modeling sensitivity to statistical dependencies in social learning **Poster Presenter:** Mr Jan-Philipp Fränken
- P-1-53** How Do Verbs Change Their Meaning? Evidence for Minimal Subtraction **Poster Presenter:** Daniel C King
- P-1-54** English speakers' (in)ability to explicitly recognize agent and patient categories **Poster Presenter:** Lilia Rissman
- P-1-55** The method of loci is an optimal policy for memory search **Poster Presenter:** Qiong Zhang
- P-1-56** Implicit questions shape information preferences **Poster Presenter:** Sehrang Joo
- P-1-57** Abstraction and cognitive flexibility in collective problem solving: The role of diversity **Poster Presenter:** Dr Tatiana Goregliad Fjaellingsdal



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- P-1-58** Age Effects in the Acquisition of Phonological Variation **Poster Presenter:** Dr. Betsy Sneller
- P-1-59** Impact of effort exertion on cognitive flexibility and stability **Poster Presenter:** Anna Mini Jos
- P-1-60** From Integers to Fractions: Developing a Coherent Understanding of Proportional Magnitude **Poster Presenter:** Shuyuan Yu
- P-1-61** Feature selection in category learning **Poster Presenter:** Mengcun Gao
- P-1-62** Preschoolers recognize that losses loom larger than gains. **Poster Presenter:** Shaylene Nancekivell
- P-1-63** Do we need neural models to explain human judgments of acceptability? **Poster Presenter:** Dr. M Alex Kelly
- P-1-64** People use inverse planning to rationally seek social information from objects **Poster Presenter:** Ethan Hurwitz
- P-1-65** Do expectations for causal patterns differ between domains? Studying physical, biological and psychological events across cultures **Poster Presenter:** Annelie Rothe-Wulf
- P-1-66** Good-enough production with repetition **Poster Presenter:** Mark Koranda
- P-1-67** A role for working memory in shaping the action policy for reinforcement learning **Poster Presenter:** Ham Huang
- P-1-68** The role of literary metaphors in aesthetic appreciation **Poster Presenter:** Dr. Francesca M M Citron
- P-1-69** You Take the High Road, and I'll Take the Low Road: Evaluating the Topological Consistency of Cognitive Models **Poster Presenter:** Sabina Johanna Sloman
- P-1-70** Early Environments and Exploration in the Preschool Years **Poster Presenter:** Ilona Bass
- P-1-71** Retreat from overgeneralization errors: Broad verb classes are harder to induce than narrow classes **Poster Presenter:** Mr. Hao Sun
- P-1-72** Is probability utility correlation really correlation? An individual-level analysis of risk-reward heuristics **Poster Presenter:** Kuninori Nakamura
- P-1-73** Events Structure Information Accessibility Less in Children than Adults **Poster Presenter:** Dr. Jie Ren
- P-1-74** Recurrent top-down synaptic connections at different spatial frequencies help disambiguate between dynamic emotions **Poster Presenter:** Dr Erwan Joël David
- P-1-75** Dynamical Feedback and Affordances-Constraints in Technology-Mediated Learning and Assessment: An in-Class Experimental Study **Poster Presenter:** Tobias Moritz Halbherr



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- P-1-76** Personality Traits Moderate the Relationship between Statistical Learning Ability and Second-Language Learners' Sentence Comprehension **Poster Presenter:** Daniel Wiechmann
- P-1-77** Brainwave profiles of efficient versus inefficient working memory retrievals in healthy older adults **Poster Presenter:** Soheil Borhani
- P-1-78** From information-seeking actions (and their costs), adults jointly infer both what others know, and what they believe they can learn **Poster Presenter:** Rosie Aboody
- P-1-79** Flexible Strategy Use in Soar's Tic-Tac-Toe **Poster Presenter:** Dr Piotr Wasilewski
- P-1-80** Using Neuromyths to Explore Educator Cognition: A Mouse-Tracking Paradigm **Poster Presenter:** Grace Murray
- P-1-81** Clustering as a precursor to efficient and near-optimal solution of small instances of the Traveling Salesperson Problem (TSP) **Poster Presenter:** Vijay Marupudi
- P-1-82** Does time extend asymmetrically towards the past and the future? A cross-cultural study **Poster Presenter:** Carmen Callizo-Romero
- P-1-83** Compositional Neural Machine Translation by Removing the Lexicon from Syntax **Poster Presenter:** Tristan Thrush
- P-1-84** Complexity/informativeness trade-off in the domain of indefinite pronouns **Poster Presenter:** Milica Denic
- P-1-85** Feeling of Competence Affects Children's Curiosity and Creativity **Poster Presenter:** Rongzhi Liu
- P-1-86** What I Like Is What I Remember: Memory Modulation and Preferential Choice **Poster Presenter:** Ada Aka
- P-1-87** A hierarchical model of metacognition **Poster Presenter:** Brendan Conway-Smith
- P-1-88** Measuring memory integration: A metric tapping memory representation rather than inference **Poster Presenter:** Wangjing Yu
- P-1-89** Scanpaths distinguish problem format in a math cognition task **Poster Presenter:** Samantha Stranc
- P-1-90** Adaptive Behavior in Variable Games Requires Theory of Mind **Poster Presenter:** Wenhao Qi
- P-1-91** A Corpus and Behavioral Analysis of the Quality of Young Children's STEM Books **Poster Presenter:** Hilary Miller
- P-1-92** Habitual Sleep Quality Moderated the Effects of Sleep Deprivation on Emotion Regulation by Third-Person Self Talk: Event-Related Potential (ERP) and Behavioral Findings **Poster Presenter:** Yeuk Ching Lam



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- P-1-93** Spontaneous and Voluntary Analogical Retrieval During Problem-Solving and Hypothesis Generation **Poster Presenter:** Maximo Trench
- P-1-94** “We Need to Start Thinking Ahead”:The Impact of Social Context on Linguistic Norm Adherence **Poster Presenter:** Tom Williams
- P-1-95** Sixteen-month-olds comprehend unanchored absent reference **Poster Presenter:** Dr. Elena Luchkina
- P-1-96** Reasoning About Hidden Features: Individual Differences and Age-Related Change **Poster Presenter:** Robert Ralston
- P-1-97** Implicit learning of purely non-linguistic sequences: the role of Broca’s area **Poster Presenter:** Chung-Lin Martin Yang
- P-1-98** Reducing the illusion of explanatory depth: A new approach to boosting intervention **Poster Presenter:** Shuma Iwatani
- P-1-99** You Should Really Think This Through: Cross-Domain Variation in Preferences for Intuition and Deliberation **Poster Presenter:** Kerem Oktar
- P-1-100** Ambiguity in Text Messages: “I Hate You for Using Emojis Inconsistently With What You Wrote in WhatsApp” **Poster Presenter:** Ricky Van-yip Tso
- P-1-101** How many instances come to mind when making probability estimates? **Poster Presenter:** Joakim Sundh
- P-1-102** Grid-Navigation Tasks involve Skill Learning **Poster Presenter:** Krishn Bera
- P-1-103** Evidence of Self – Referential Prioritization on the basis of Visual Features: Attributing Saliency to Rule - Learning **Poster Presenter:** Mr. Neelabja Roy
- P-1-104** How People Examine Self/Other’s Learning History **Poster Presenter:** Jun Ishihara
- P-1-105** Explainable Artificial Intelligence in the Prediction of Personality Traits from the Use of Smartphone **Poster Presenter:** Luís Macedo
- P-1-106** A computational model of learning to count in a multimodal, interactive environment **Poster Presenter:** Silvester Sabathiel
- P-1-107** The cognition of categorisation: nominal classification systems **Poster Presenter:** Dr Alexandra Grandison
- P-1-108** Does viewing Earth as a person and nature as intentionally designed impact beliefs about the immorality of environmentally damaging acts? **Poster Presenter:** Lizette Y Pizza Becerra
- P-1-109** Unpacking cognitive processes in additive and non-additive multiple-cue tasks **Poster Presenter:** August Collsiöö
- P-1-110** An empirical investigation of adaptive search in problem solving **Poster Presenter:** oana vuculescu
- P-1-111** Computational mechanisms for resolving misunderstandings **Poster Presenter:** Laura D. van de Braak



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- P-1-112** Goal-adaptiveness in children's cue-based information search **Poster Presenter:** Andreas Domberg
- P-1-113** Automating validation of learning and decision making models using the CogniBench framework **Poster Presenter:** Filip Melinscak
- P-1-114** Perseverance in risky goal-pursuit **Poster Presenter:** Charley Mingshuo Wu
- P-1-115** Teasing apart encoding and retrieval interference in sentence comprehension: Evidence from agreement attraction **Poster Presenter:** Dan Parker
- P-1-116** Modelling the Effect of Monetary Incentives on Recognition Memory **Poster Presenter:** Kevin da Silva-Castanheira
- P-1-117** Effects of Causal Determinism on Causal Learning Trajectories **Poster Presenter:** Phuong (Phoebe) Dinh
- P-1-118** An algorithm for estimating average magnitudes **Poster Presenter:** Jennifer Lee
- P-1-119** Imitation inhibition training enhances perspective taking in preschoolers **Poster Presenter:** Dora Kampis
- P-1-120** The Psychology of Human Entropy Intuitions **Poster Presenter:** Lara Bertram
- P-1-121** Hierarchical temporal organization of speech in children and adolescents who stutter **Poster Presenter:** Mona Franke
- P-1-122** Passing the Moral Turing Test **Poster Presenter:** Julia Haas
- P-1-123** Semantic chunks save working memory resources: computational and behavioral evidence **Poster Presenter:** Dr Benjamin Kowialiewski
- P-1-124** Attentional Allocation as Optimal Compression in Visual Search **Poster Presenter:** Christopher Bates
- P-1-125** Perceived Agency of a Social Norm Violating Robot **Poster Presenter:** Shannon C Yasuda
- P-1-126** Preschoolers are Sensitive to their Performance Over Time **Poster Presenter:** Julia Anne Leonard
- P-1-127** Neonatal imitation of caregivers at home: A feasibility pilot **Poster Presenter:** Ms. Katherine E Casey
- P-1-128** Do Infants Think That Agents Choose What's Best? **Poster Presenter:** Laura Schlingloff
- P-1-129** WG-A: A Framework for Exploring Analogical Generalization and Argumentation **Poster Presenter:** Dr. John Licato
- P-1-130** Recognition memory influenced by grammar **Poster Presenter:** Steven Schwering



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- P-1-131** Examining a developmental pathway of early word learning: From Qualitative Characteristics of Parent Speech, to Sustained Attention, to Vocabulary Size
Poster Presenter: Ryan E Peters
- P-1-132** “Help us train our robot!”: Using machine learning to study human teaching **Poster Presenter:** Makaela Nartker
- P-1-133** Classification of cognitive problem-solving strategies using MVPA on pre-solution EEG data **Poster Presenter:** Yongtaek Oh
- P-1-134** Modeling word interpretation with deep language models: The interaction between expectations and lexical information **Poster Presenter:** Laura Aina
- P-1-135** Children affirm the possibility of improbable events when they are similar to a known event **Poster Presenter:** Brandon W Goulding
- P-1-136** Investigating the Benefits of Pre-Questions on Lecture-Based Learning **Poster Presenter:** Quentin King-Shepard
- P-1-137** A Computational Approach to Perception and Language in Autism Based on Self-Organizing Maps **Poster Presenter:** Dr. Angel Eugenio Tovar
- P-1-138** Efficient navigation using a scalable, biologically inspired spatial representation **Poster Presenter:** Brent Komer
- P-1-139** Can Group Knowledge Diversity be Created On-the-Fly?: Effects of Collaboration Task Design on Performance and Transfer **Poster Presenter:** Katherine Hibbard
- P-1-140** Spatial Alignment Facilitates Visual Comparison in Children **Poster Presenter:** Yinyuan Zheng
- P-1-141** The Temporal Structure of Event Knowledge in the Mind in Relation to Autistic Traits **Poster Presenter:** Kara E Hannah
- P-1-142** Do Language Effects on Attention Persist in Complex Task Contexts? **Poster Presenter:** Jessica Joseph
- P-1-143** Are Polysemy Effects Modulated by Sublexical, Lexical, and Semantic Factors? **Poster Presenter:** Di Mo
- P-1-144** Joint Acquisition of Path and Manner Action Description **Poster Presenter:** Claire S Shah
- P-1-145** Untangling Semantic Similarity: Modeling Lexical Processing Experiments with Distributional Semantic Models. **Poster Presenter:** Farhan Samir
- P-1-146** Characterizing the mechanisms of instructed reinforcement learning with fMRI pattern-similarity analysis **Poster Presenter:** Euan Prentis
- P-1-147** Promoting Pro-Climate Actions: A Cognitive-Constraints Approach **Poster Presenter:** Junho Lee
- P-1-148** The attentional demands of learning by doing: A developmental study **Poster Presenter:** Karrie Godwin



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- P-1-149** Interactions Between Categorization and Intuitive Physics **Poster Presenter:** Anantha Rao
- P-1-150** From two to many: The role of executive functions in young children’s generalization of novel object names in a comparison design **Poster Presenter:** Ph.D. Student Yannick Lagarrigue
- P-1-151** The Impact of Mobile Usage Patterns on Risk-Taking Behavior **Poster Presenter:** Michelle Chiu
- P-1-152** People view humans as existing for purposes and condemn those who fail to fulfill them **Poster Presenter:** Casey Lewry
- P-1-153** Reasoning About Equations with Tape Diagrams: Do Differing Visual Features Matter? **Poster Presenter:** Anna N. Bartel
- P-1-154** Do you see what I see? Children’s understanding of perception and physical interaction over video chat **Poster Presenter:** Elizabeth Bennette
- P-1-155** Understanding Children's Speech Productions: Man Versus Machine **Poster Presenter:** Madeleine Yu
- P-1-156** From Tangled Object Manifold to Temporal Relation Manifolds **Poster Presenter:** james W ryland
- P-1-157** The Same or Different? Capacity Limitations in Visual Imagery versus Visual Memory of Simple Structured Objects **Poster Presenter:** Mr christopher A atkin
- P-1-158** “Girls Are as Good as Boys” Implies Boys Are Better, But Only in the Absence of Explicit Awareness **Poster Presenter:** Evan M. Doherty
- P-1-159** Adaptive vs. Fixed Spacing of Learning Items: Evidence from Studies of Learning and Transfer in Chemistry Education **Poster Presenter:** Everett Mettler
- P-1-160** Principled connections guide semantic feature production **Poster Presenter:** Hillary Harner
- P-1-161** Integration of visual and spoken cues in a virtual reality navigation task **Poster Presenter:** Serena DeStefani
- P-1-162** Vowel raising in Bengali inflectional morphology: Interactions of orthography and phonology **Poster Presenter:** Nadja Althaus
- P-1-163** A Biologically Plausible Spiking Neural Model of Eyeblink Conditioning in the Cerebellum **Poster Presenter:** Andreas Stöckel
- P-1-164** Cardinal Direction Knowledge in 6-12-year-old Children **Poster Presenter:** Dr. Yingying Yang
- P-1-165** Redder reds, redder purples, but not redder blues: color gradability knowledge among blind and sighted adults **Poster Presenter:** Judy Kim
- P-1-166** Reliable Idiographic Parameters From Noisy Behavioral Data: The Case of Individual Differences in a Reinforcement Learning Task **Poster Presenter:** Yinan Xu



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- P-1-167** Student Learning Trajectories and Knowledge Transfer in Early Mathematical Equivalence Interventions **Poster Presenter:** Dr. Kristen Johannes
- P-1-168** Can toddlers learn causal action sequences? **Poster Presenter:** Nishat Kazi
- P-1-169** Schrödinger's Category: Active Learning in the Face of Label Ambiguity **Poster Presenter:** John Patterson
- P-1-170** Chaining and the process of scientific innovation **Poster Presenter:** Emmy Liu
- P-1-171** Neural Correlates of Hand Representation in Virtual Flight Simulation **Poster Presenter:** Polina Andrievskaia
- P-1-172** Infants use imitation but not comforting or social synchrony to evaluate those in social interactions **Poster Presenter:** Ashley J Thomas
- P-1-173** Scaling Uncertainty in Visual Perception and Estimation Tasks **Poster Presenter:** Eleanor Brower Schille-Hudson
- P-1-174** Staying and Returning Dynamics of Sustained Attention in Young Children **Poster Presenter:** Jaeah Kim
- P-1-175** Not all Errors are the Same: The Role of Cognitive Effort in Cross-Situational Word Learning **Poster Presenter:** Sydney G. Thib
- P-1-176** Does the effect of labels on sustained attention depend on target familiarity? **Poster Presenter:** Emily Keebler
- P-1-177** Prior beliefs about the evidentiary weight of crime scene data impacts juror verdicts **Poster Presenter:** Emily Line
- P-1-178** Children's expectations of reciprocity in referential communication **Poster Presenter:** Dr. Myrto Grigoroglou
- P-1-180** Using Experience Sampling to Investigate Affect at Encoding and Episodic Memory **Poster Presenter:** Adelaide MacKenzie
- P-1-181** Downloading Culture.zip: Social learning by program induction **Poster Presenter:** Max Kleiman-Weiner
- P-1-182** The best-laid plans of mice and men: Competition between top-down and preceding-item cues in plan execution **Poster Presenter:** Prof Vsevolod Kapatsinski
- P-1-183** Intuitive theories of persuasion shape engagement in discussion of polarizing topics **Poster Presenter:** John Hunter Priniski
- P-1-184** Devaluation of Unchosen Options: A Bayesian Account of the Provenance and Maintenance of Overly Optimistic Expectations **Poster Presenter:** Corey Yishan Zhou
- P-1-185** Do Environmental Resource Distributions Affect Attentional Styles? **Poster Presenter:** Gunes Sonmez



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- P-1-186** Toddlers and preschoolers use relational concepts to solve problems **Poster Presenter:** Mariel Goddu
- P-1-187** Modeling the Effect of Driver's Eye Gaze Pattern Under Workload: Gaussian Mixture Approach **Poster Presenter:** Ron Hecht
- P-1-188** On the Psychology of Resource Monitoring **Poster Presenter:** Daniel Katz
- P-1-189** A Simple Computational Model of Saliency Map Formation in the Brain **Poster Presenter:** Abe Leite
- P-1-190** Integrating Semantics Into Developmental Models of Morphology Learning **Poster Presenter:** Abi Tenenbaum
- P-1-191** On the Predictive Power of Neural Language Models for Human Real-Time Comprehension Behavior **Poster Presenter:** Ethan Gottlieb Wilcox
- P-1-192** Do you see what I see? A Cross-cultural Comparison of Social Impressions of Faces **Poster Presenter:** Garrison Cottrell
- P-1-193** Identifying Individual Differences in Sensemaking and Information Foraging **Poster Presenter:** Kara Kedrick
- P-1-194** Uncovering Category Representations with Linked MCMC with People **Poster Presenter:** Pablo Leon Villagra
- P-1-195** Do people fit to Benford's law, or do they have a Benford bias? **Poster Presenter:** Bruce Burns
- P-1-196** How to navigate everyday distractions: Leveraging optimal feedback to train attention control **Poster Presenter:** Dr. Maria Wirzberger
- P-1-197** Can neural networks acquire a structural bias from raw linguistic data? **Poster Presenter:** Alex Warstadt
- P-1-198** Modeling manipulative language use **Poster Presenter:** Vinicius Macuch Silva
- P-1-199** Measuring the costs of planning **Poster Presenter:** Valkyrie Felso
- P-1-200** Popular Peers Promote Prosocial Behavior **Poster Presenter:** Andrea Gradassi
- P-1-516** Asking questions with a big impact: Adapting to other interpretations of gradable adjectives **Poster Presenter:** Sandro Pezzelle
- P-1-522** Exploring Exploration: Comparing Children with Agents in Unified Exploration Environments **Poster Presenter:** Eliza Koso



CogSci 2020 Searchable Program

POSTER SESSION #2

July 31, 2020, 11:20 – 13:00 EDT

- P-2-179** A theoretically driven meta-analysis of implicit theory of mind studies: The role of factivity **Poster Presenter:** Catherine Holland
- P-2-201** Automatic Detection of Cross-language Verbal Deception **Poster Presenter:** Pasquale Capuozzo
- P-2-202** Inherent and Emergent Biases of Vocal Learning Timeframes in Zebra Finches **Poster Presenter:** Ana Isabel Alonso
- P-2-203** “Take the Middle” – Averaging Prior and Evidence as Effective Heuristic in Bayesian Reasoning **Poster Presenter:** Katharina Loibl
- P-2-204** Investigating the Role of Verb Frequency in Factive and Manner-of-speaking Islands **Poster Presenter:** Stephanie N Richter
- P-2-205** Intention Inference in a Dynamic Multi-Goal Environment **Poster Presenter:** Desmond Ong
- P-2-206** Reinforcement of Semantic Representations in Pragmatic Agents Leads to the Emergence of a Mutual Exclusivity Bias **Poster Presenter:** Xenia Ohmer
- P-2-207** Propositional versus Associative Views of Sentence Memory **Poster Presenter:** Kevin Shabahang
- P-2-208** Individual adaptation in teamwork **Poster Presenter:** 4126139978 Huao Li
- P-2-209** Reducing retrieval time modulates the production effect **Poster Presenter:** Megan O. Kelly
- P-2-210** Using signal detection theory to investigate the role of visual information in performance monitoring in typing **Poster Presenter:** Svetlana Pinet
- P-2-211** A Model of Fast Concept Inference with Object-Factorized Cognitive Programs **Poster Presenter:** Daniel P. Sawyer
- P-2-212** Morphological and pseudomorphological effects in English visual word processing: How much can we attribute the statistical structure of the language? **Poster Presenter:** Patience Stevens
- P-2-213** Adaptive Sampling Policies Imply Biased Beliefs: A Generalization of the Hot Stove Effect **Poster Presenter:** Jerker Denrell
- P-2-214** Investigating the impact of social and biological cues in children's perception of humanoid robots **Poster Presenter:** Jaemarie Solyst
- P-2-215** A Neural Network Model of the Effect of Prior Experience with Regularities on Subsequent Category Learning **Poster Presenter:** Casey L Roark



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- P-2-233** Antarjami: Exploring psychometric evaluation through a computer-based game **Poster Presenter:** Anirban Lahiri
- P-2-234** Constructing Meaning in Small Increments **Poster Presenter:** Peter Lindes
- P-2-235** A spiking neuron model of biased inferential decision making **Poster Presenter:** Peter Duggins
- P-2-236** Listener's Big Five Personality Traits Predict Changes in Pupil Size During Spoken Language Comprehension **Poster Presenter:** Isabell Hubert Lyall
- P-2-237** Modeling Visuospatial Reasoning Across 17 Different Tests on the Leiter Scale of Nonverbal Intelligence **Poster Presenter:** Mr. James Ainooson
- P-2-238** Part of Your World: Trends in the Visual Complexity of Digital Media **Poster Presenter:** Deepayan Sanyal
- P-2-239** Ten semantic differential evaluations of written Japanese vowels in a paper-based survey study **Poster Presenter:** Misa Ando
- P-2-240** Self-inferred desires to benefit self and other **Poster Presenter:** Ryan Carlson
- P-2-241** Great Expectations: Evaluating the Role of Object-Color Expectations on Visual Memory **Poster Presenter:** Kimele Persaud
- P-2-242** Change of Consciousness and Attitude through Learning Experience in University: An Exploratory Learning Model of Japanese University Students **Poster Presenter:** Tomohiro Taira
- P-2-243** Potential for cumulative culture in capuchin monkeys (*Sapajus apella*) in a simulated transmission chain study. **Poster Presenter:** Ms Donna Kean
- P-2-244** Learning Hidden Causal Structure from Temporal Data **Poster Presenter:** Simon Valentin
- P-2-245** Quantifying sound-graphic systematicity and application on multiple phonographs **Poster Presenter:** Hana Jee
- P-2-246** Using K-means Clustering for Out-of-Sample Predictions of Memory Retention **Poster Presenter:** Florian Sense
- P-2-247** Preschoolers' responses to unknown words: Questions and evaluation of definition quality **Poster Presenter:** Laura Janakiefski
- P-2-248** Adapting Educational Technologies Across Learner Populations: A Usability Study with Adolescents on the Autism Spectrum **Poster Presenter:** Xiaoman Zi
- P-2-249** Item Distinctiveness is More Critical than Item Context in a Cross-Situational Word Learning Paradigm **Poster Presenter:** Kendra V Lange
- P-2-250** Not as Bad as Painted? Legal Expertise, Intentionality Ascription, and Outcome Effects Revisited **Poster Presenter:** Dr. Karolina Prochownik



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- P-2-251** What Do Computers Know About Semantics Anyway? Testing Distributional Semantics Models Against a Broad Range of Relatedness Ratings **Poster Presenter:** Dr Kevin Brown
- P-2-252** Graphical vs. Spatial Models of Distributional Semantics **Poster Presenter:** Shufan Mao
- P-2-253** Exploring Lexical Relations in BERT using Semantic Priming **Poster Presenter:** Kanishka Misra
- P-2-254** Is time travel possible? Children’s intuitive theories about the nature of time **Poster Presenter:** Cole Dougherty
- P-2-255** Choice strategies in a changing social learning environment **Poster Presenter:** Rista C Plate
- P-2-256** Constructing complex social categories from distinct group membership information **Poster Presenter:** Alice Xia
- P-2-257** Relations between the Home and Cognitive Development in Nicaraguan Children **Poster Presenter:** Elayne Vollman
- P-2-258** Decision-Making Under Uncertain Circumstances in Borderline Personality Disorder (BPD) Patients **Poster Presenter:** Mathi Manavalan
- P-2-259** Executive Function affects Resilience with Different Cognitive Mechanisms between Adolescence and Emerging Adulthood **Poster Presenter:** Ms. Solna Lin Na XING
- P-2-260** Predicting Social Exclusion: A Computational Linguistic Approach to the Detection of Ostracism **Poster Presenter:** Greta Gandolfi
- P-2-261** Text Matters but Speech Influences: A Computational Analysis of Syntactic Ambiguity Resolution **Poster Presenter:** Won Ik Cho
- P-2-262** Simulations and theory of generalization in recurrent networks **Poster Presenter:** Dr Juan C Valle-Lisboa
- P-2-263** Automatic and Controlled Sentence Production: A Computational Model **Poster Presenter:** Mr Eugene Buyakin
- P-2-264** Science & engineering goals: Learning about the control-of-variable strategy from picture books **Poster Presenter:** Vaunam Venkadasalam
- P-2-265** 4- and 5-Year-Olds' Comprehension of Functional Metaphors **Poster Presenter:** Rebecca Zhu
- P-2-266** Positive Effects of a Developmental Period Without Control **Poster Presenter:** Rebecca Jackson
- P-2-267** Visual Statistical Learning Is Facilitated in Zipfian Distributions **Poster Presenter:** Ori Lavi-Rotbain
- P-2-268** The Signature of All Things: Children Infer Knowledge States from Static Images **Poster Presenter:** Ms. Madeline Pelz



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- P-2-269** Domestic dogs' understanding of spatial temporal priority **Poster Presenter:** Julia Espinosa
- P-2-270** How nouns surface as verbs: Inference and generation in word class conversion **Poster Presenter:** Lei Yu
- P-2-271** Costly Exceptions: Deviant Exemplars Reduce Category Compression **Poster Presenter:** Daniel Silliman
- P-2-272** Learning to cooperate: Emergent communication in multi-agent navigation **Poster Presenter:** Ivana Kajić
- P-2-273** Acoustic Features of Infant Directed Speech in Female and Male Speakers **Poster Presenter:** Rong Huang
- P-2-274** Lexicalization of quantificational forces in adverbial and determiner domains **Poster Presenter:** Johanna V. Alstott
- P-2-275** Causal Learning with Two Causes over Weeks **Poster Presenter:** Ciara L Willett
- P-2-276** Multimodal Learning: An Investigation Into Memory Integration Across Representational Formats **Poster Presenter:** Lucy M Cronin-Golomb
- P-2-277** Abstraction and Generalization: Comparing Adaptive Models of Categorization **Poster Presenter:** Dr Julian Zubek
- P-2-278** The Relation between Gist and Item Memory Over a Month **Poster Presenter:** Haiyun Tima Zeng
- P-2-279** Investigating Simple Object Representations in Model-Free Deep Reinforcement Learning **Poster Presenter:** Guy Davidson
- P-2-280** Diagnosing pervasive issues with parameter estimation **Poster Presenter:** Sabina Johanna Sloman
- P-2-281** Requisite Variety, Cognition, and Scientific Change **Poster Presenter:** Dr Michael Lissack
- P-2-282** Contextual Interference Effect in Motor Skill Learning: An Empirical and Computational Investigation **Poster Presenter:** Julia Marie Schorn
- P-2-283** An Investigation of the Multilingual and Bi-dialectal Advantage in Executive Control **Poster Presenter:** Kyriakos Antoniou
- P-2-284** Generalizing Outside the Training Set: When Can Neural Networks Learn Identity Effects? **Poster Presenter:** Simone Brugiapaglia
- P-2-285** Rhythmic abilities in prereaders predict future reading skills **Poster Presenter:** Camila Zugarramurdi
- P-2-286** Can a Composite Metacognitive Judgment Accuracy Score Successfully Capture Performance Variance during Multimedia Learning? **Poster Presenter:** Megan D Wiedbusch
- P-2-287** Inferring physical cause from statistical anomalies **Poster Presenter:** Elizabeth Attisano



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- P-2-288** Modeling pupillary surprise response in elementary school children with theory-based Bayesian models **Poster Presenter:** Joseph A Colantonio II
- P-2-289** Accessing Distant Analogs Over Superficial Matches: ¿How Efficient is the Architecture of our Retrieval Systems? **Poster Presenter:** Maximo Trench
- P-2-290** FrameNet for Modeling Extraction from Coordinate Structures **Poster Presenter:** Mai Al-Khatib
- P-2-291** Grammatical marking and the tradeoff between code length and informativeness **Poster Presenter:** Frank Mollica
- P-2-292** Deep daxes: Mutual exclusivity arises through both learning biases and pragmatic strategies in neural networks **Poster Presenter:** Kristina Gulordava
- P-2-293** The Effect of State Representations in Sequential Sensory Prediction: Introducing the Shape Sequence Task **Poster Presenter:** Henrik Siljebråt
- P-2-294** Group- and Individual-Level Information Affects Children’s Playmate Choice **Poster Presenter:** Rongzhi Liu
- P-2-295** Chance-Discovery and Chance-Curation in Online Communities **Poster Presenter:** Dr. Selene Arfini
- P-2-296** Cooperation, Response Time, and Social Value Orientation: A Meta-Analysis **Poster Presenter:** Andrea Guido
- P-2-297** Understanding scalar implicature without scale markers SOME and ALL in Japanese preschoolers and adults **Poster Presenter:** Tetsuya Yasuda
- P-2-298** Retrieving a Distant Analog From Memory in Daily Life is Very Unlikely, Even in Optimal Conditions of Encoding **Poster Presenter:** Ricardo A. Minervino
- P-2-299** Modelling the Emergence of Positional Compositional Structure **Poster Presenter:** Henry Coxe-Conklin
- P-2-300** Immediate action-effects facilitate response speed via stimulus-response association **Poster Presenter:** Mr. Takumi Tanaka
- P-2-301** Motor Chunking During Sequence Learning in Grid-Navigation Tasks **Poster Presenter:** Krishn Bera
- P-2-302** End-to-End Models for the Analysis of System 1 and System 2 Interactions based on Eye-Tracking Data **Poster Presenter:** Prof Antonio Rizzo
- P-2-303** Configurative Weighting as a Two-Plane Approximation of Bayesian Estimates **Poster Presenter:** Joakim Sundh
- P-2-304** Seeing (bad) intentions in robot faces: an EEG study **Poster Presenter:** Martin Maier
- P-2-305** Are Mental Representations of Object Shape Always Quickly Updateable during Language Comprehension? **Poster Presenter:** Oleksandr V. Horchak
- P-2-306** Are modal representations automatic ingrained when processing the meaning of motor concrete Spanish verbs? **Poster Presenter:** Roberto Aguirre
- P-2-307** Malleability of Working Memory Through Chess in Schoolchildren—A Two-Year Intervention Study **Poster Presenter:** Ebenezer Joseph



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- P-2-308** Children's Understanding of Relational Vocabulary for Ordinal and Magnitude Relations **Poster Presenter:** Michelle Hurst
- P-2-309** A Vicious Loop? Longitudinal Relations Between Math Anxiety and Math Performance for Grade 2 and 3 Students **Poster Presenter:** Ms Shujie Song
- P-2-310** Does Prior Knowledge influence Learners' Cognitive and Metacognitive Strategies over Time during Game-based Learning? **Poster Presenter:** Daryn A Dever
- P-2-311** Using Natural Language Processing Models to Evaluate STEM Book Coherence **Poster Presenter:** Hilary Miller
- P-2-312** Children's attribution of disfluency to different sources **Poster Presenter:** SiOn Yoon
- P-2-313** Relational reasoning and generalization using non-symbolic neural networks **Poster Presenter:** Atticus Geiger
- P-2-314** Can Two 1/2- and 3 1/2 -year-old Children Learn Verbs Even when Irrelevant Events are Present? **Poster Presenter:** Jane B. Childers
- P-2-315** Investigating the Behavior of Malicious Actors Through the Game of Mafia **Poster Presenter:** Mr. Samee Omotayo Ibraheem
- P-2-316** Active Vision in the Perception of Actions: An Eye Tracking Study in Naturalistic Contexts **Poster Presenter:** Ryan E Peters
- P-2-317** Human-like learning Framework for frequency-skewed multi-level classification **Poster Presenter:** Amarjot Singh
- P-2-318** Modeling Human Cognitive Flexibility with Extemporaneous Networks **Poster Presenter:** Joseph German
- P-2-319** Examining Developmental Change in Children's Information Use **Poster Presenter:** Samantha Gualtieri
- P-2-320** The Semantic Network: Uncovering The Mechanisms that Build Organized Word Knowledge in Development **Poster Presenter:** Apoorva Vallampati
- P-2-321** Extracting low-dimensional psychological representations from convolutional neural networks **Poster Presenter:** Aditi Jha
- P-2-322** A Novel Quantum Approach to the Dynamics of Decision Making **Poster Presenter:** Lena Rosendahl
- P-2-323** A memory-augmented neural network model of abstract sequential reasoning **Poster Presenter:** Taylor Webb
- P-2-324** The effects of mindfulness meditation and relaxation on brain activity **Poster Presenter:** cassandra morrison
- P-2-325** Chaining and historical adjective extension **Poster Presenter:** Karan Grewal
- P-2-326** Phonemic learning based on articulatory-acoustic speech representations **Poster Presenter:** Dr Heikki Rasilo
- P-2-327** Quality Engineering in the Development of an Intelligent Agent **Poster Presenter:** Tim Halverson



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- P-2-328** Spatial alignment supports comparison of life science visuals for 7th graders **Poster Presenter:** Nina Simms
- P-2-329** Can audio-visual integration, adaptive learning, and explicit feedback improve the perception of noisy speech? **Poster Presenter:** stephanie r deschamps
- P-2-330** Distributional Statistical Learning: How and How Well Can It Be Measured? **Poster Presenter:** Dr. Bethany Grown
- P-2-331** Individual differences in metacognitive ability of grandiose and vulnerable narcissists **Poster Presenter:** Shane Littrell
- P-2-332** The influence of mismatched network topologies on learning across levels of the language hierarchy **Poster Presenter:** Elisabeth A. Karuza
- P-2-333** A FIRST: Arabic-English biliterates demonstrate the SNARC effect **Poster Presenter:** Jacquelyn H. Berry
- P-2-334** Leveraging Unstructured Statistical Knowledge in a Probabilistic Language of Thought **Poster Presenter:** Alexander Lew
- P-2-335** Extending the Rogers and McClelland Model of Semantic Cognition (2003) to work with Raw Pixel Information **Poster Presenter:** Arihant Jain
- P-2-336** Coloring Outside the Lines: Error Patterns in Children's Acquisition of Color Terms **Poster Presenter:** Julia Watson
- P-2-337** Human-Generated Explanations of Inferences in Bayesian Networks: A Case Study **Poster Presenter:** Marko Tesic
- P-2-338** Attentional Competition in Genuine Classrooms: Analysis of the Classroom Visual Environment **Poster Presenter:** Karrie Godwin
- P-2-339** The Development of Creative Search Strategies **Poster Presenter:** Yuval Hart
- P-2-340** Simulating Infant Visual Learning by Comparison: An Initial Model **Poster Presenter:** Kezhen Chen
- P-2-341** The Rainbow Mnemonic Improves Recall in Preschool Children **Poster Presenter:** Dr. Jeri Lynn Little
- P-2-342** Pronoun interpretation in the context of dynamic actions: a test of the reinstatement hypothesis **Poster Presenter:** Tiana V. Simovic
- P-2-343** Radical Embodiment and the Relation Between Individual and Joint Action: A Level-Neutral Approach **Poster Presenter:** Guilherme Sanches de Oliveira
- P-2-344** Social and visual cognition to predict collaborative problem solving **Poster Presenter:** Frances Grace McCormick
- P-2-345** Selective Numeracy: Effects of Numeracy, Popular-Science Reports and Personal Experience on Data-Based Decision **Poster Presenter:** Wan Liu
- P-2-346** Children's Expressive and Receptive Knowledge of the English Regular Plural **Poster Presenter:** Stephan C. Meylan
- P-2-347** Generalizations about the functions of agents **Poster Presenter:** Hillary Harner



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- P-2-348** An investigation of the origin of logical quantification: infant's and adult's representations of collective and distributive actions in complex visual scenes
Poster Presenter: Nicolo Cesana-Arlotti
- P-2-349** Disentangling Generativity in Visual Cognition **Poster Presenter:** Declan Campbell
- P-2-350** Humans measure algorithmic complexity to guide engagement with event sequences **Poster Presenter:** Gal Raz
- P-2-351** Learners sacrifice robust communication as a result of a social bias **Poster Presenter:** Masha Fedzechkina
- P-2-352** Generalization of Novel Object Names in Comparison Contexts in a yes-no paradigm by young children. When the rate of stimulus presentation matters.
Poster Presenter: Eleanor Stansbury
- P-2-353** Why blueberries are blue: intuitions about color labels among congenitally blind and sighted adults **Poster Presenter:** Judy Kim
- P-2-354** Learning word-referent mappings and concepts from raw inputs **Poster Presenter:** Wai Keen Vong
- P-2-355** Developmental Changes in Children's Categorization of Facial Cues of Emotion **Poster Presenter:** Kristina Woodard
- P-2-356** Monolingual and Bilingual Toddlers' Reliance on the Mutual Exclusivity Principle and Statistics to Learn Colour Labels **Poster Presenter:** Priscilla Fung
- P-2-357** When do labels facilitate category learning in adults? The role of visual category structure **Poster Presenter:** Nadja Althaus
- P-2-358** What matters? The effect of individual political ideology on spoken gender stereotype comprehension **Poster Presenter:** Stephanie J. Hammond-Thrasher
- P-2-359** The impact of semantic versus perceptual attention on memory representation **Poster Presenter:** Sagana Vijayarajah
- P-2-360** Abstract Words as Emotion Buffers: Affect Labeling and Distress Reduction **Poster Presenter:** Daniel M. Walsh
- P-2-361** Generating new concepts with hybrid neuro-symbolic models **Poster Presenter:** Reuben A Feinman
- P-2-362** Understanding Children's Productions: Does Experience Play a Role? **Poster Presenter:** Amrita Bagga
- P-2-363** The iconicity of random words **Poster Presenter:** Charles P Davis
- P-2-364** The Adaptive Glasgow Face-Matching Task **Poster Presenter:** Necdet Gurkan
- P-2-365** Dissociable influences of reward and punishment on adaptive cognitive control **Poster Presenter:** Xiamin Leng



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- P-2-366** Embodiment and immersion in cognition-focused virtual environments **Poster Presenter:** Anya D. Pejemsky
- P-2-367** Using the TrackIt Task to Measure the Development of Selective Sustained Attention in Children Ages 2-7 **Poster Presenter:** Emily Keebler
- P-2-368** Supplementing problem solving with erroneous examples does not improve learning from an online fraction tutor **Poster Presenter:** Maria Vorobeva
- P-2-369** Learners' bias to balance production effort against message uncertainty is independent of their native language **Poster Presenter:** Lucy Hall Hartley
- P-2-370** Optimal nudging **Poster Presenter:** Mathew Hardy
- P-2-371** Children's use of linguistic and non-linguistic negation in reasoning by the disjunctive syllogism **Poster Presenter:** Dr. Myrto Grigoroglou
- P-2-372** Variation in surface features improves recognition of common magnitude relations **Poster Presenter:** Dr. Priya B. Kalra
- P-2-373** Increasing Diversity of Contrast Examples Decreases Generalization from a Probabilistic Target Set **Poster Presenter:** David A. Bosch
- P-2-374** Adding biological constraints to deep neural networks reduces their capacity to learn unstructured data **Poster Presenter:** Christian Tsvetkov
- P-2-375** Consideration of Alternative Outcomes of Psychological Studies: Some Evidence for Transfer **Poster Presenter:** Edward Munnich
- P-2-376** Visual Attention and Real-World Decision Making: Sharing Photos on Social Media **Poster Presenter:** Shawn Fagan
- P-2-377** Accurate representation for spatial cognition using grid cells **Poster Presenter:** Nicole Sandra-Yaffa Dumont
- P-2-378** Implicit Structure in Sensory Metaphors of Personality **Poster Presenter:** Frank Durgin
- P-2-379** Which sentence embeddings and which layers encode syntactic structure? **Poster Presenter:** Dr. M Alex Kelly
- P-2-380** Finding probabilistic context-free grammar in Chinese writing system **Poster Presenter:** Mr. Hao Sun
- P-2-381** Dynamic Control Under Changing Goals **Poster Presenter:** Zach Davis
- P-2-382** Certain to be surprised: A preference for novel causal outcomes develops in early childhood **Poster Presenter:** Mariel Goddu
- P-2-383** Mental Imagery – Eyes Open and Shut **Poster Presenter:** Michael G. Allen
- P-2-384** Algebra decoded: individual differences in strategy selection when solving for 'x' **Poster Presenter:** Jeffrey K. Bye
- P-2-385** Jargon Jinx: An Early Bias Toward Opaque Explanations **Poster Presenter:** Amanda McCarthy



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- P-2-386** Hierarchical Inferences Support Systematicity in the Lexicon **Poster Presenter:** Matthias Hofer
- P-2-387** Leveraging Machine Learning to Automatically Derive Robust Planning Strategies from Biased Models of the Environment **Poster Presenter:** ANIRUDHA KEMTUR
- P-2-388** Pictorial Depth Cues in Young Children’s Drawings of Layouts and Objects **Poster Presenter:** Théo Morfousse
- P-2-389** Exploring Category Structure in Children and Adults **Poster Presenter:** Pablo Leon Villagra
- P-2-390** Children’s Mathematical Strategy Choices are not Influenced by Number Magnitude **Poster Presenter:** Susan Wagner Cook
- P-2-391** Differential Effect of Blocked and Interleaved Study on Category Learning by Classification and Inference **Poster Presenter:** Yinjie Yao
- P-2-392** A Grounded Framework of Cognition for Teaching, Learning, and Assessment in Higher Education **Poster Presenter:** Tobias Moritz Halbherr
- P-2-393** A Task and Motion Approach to the Development of Planning **Poster Presenter:** João Loula
- P-2-394** How does simulating aspects of primate infant visual development inform training of CNNs? **Poster Presenter:** Shantanu Jaiswal
- P-2-395** Discovering Conceptual Hierarchy Through Explicit and Implicit Cues in Child-Directed Speech **Poster Presenter:** Abdellah Fourtassi
- P-2-396** Forms of Distributed Curiosity in the Collaborative Exploration of Unknown Environments by Artificial Agents **Poster Presenter:** Luís Macedo
- P-2-397** How Hong Kong Preschoolers Perceive Chinese Characters: Are There Any Relationships between the Effect of HP and Literacy Ability? **Poster Presenter:** Mr Ronald Chan
- P-2-398** How many observations is one generic worth? **Poster Presenter:** Michael Henry Tessler
- P-2-399** Whom will Granny thank? Thinking about what could have been informs children’s inferences about relative helpfulness **Poster Presenter:** Sophie Bridgers
- P-2-400** Bootstrapping an Imagined We for Cooperation **Poster Presenter:** Ning Tang



CogSci 2020 Searchable Program

POSTER SESSION #3

August 1, 2020, 11:00 – 12:40 EDT

- P-3-401** “Conscious” Multi-Modal Perceptual Learning for Grounded Simulation-Based Cognition **Poster Presenter:** Sean C Kugele
- P-3-402** The Plausible Impossible: Graded Notions of Impossibility Across Cultures **Poster Presenter:** Andrew Shtulman
- P-3-403** When me is mine: An embodied origin of psychological ownership? **Poster Presenter:** Luca Tummolini
- P-3-404** Gendered Robots Can Change Children’s Gender Stereotyping **Poster Presenter:** Andrew G Young
- P-3-405** The limits of learning to learn **Poster Presenter:** Steven Phillips
- P-3-406** Calibrating Trust in Autonomous Systems in a Dynamic Environment **Poster Presenter:** Kazuo Okamura
- P-3-407** Infants Relax in Response to Unfamiliar Foreign Lullabies **Poster Presenter:** Mila Bertolo
- P-3-408** The spatial arrangement method of measuring similarity can capture high-dimensional, semantic structures **Poster Presenter:** Dr Russell Richie
- P-3-409** Developmental Differences in Information Sampling Effort **Poster Presenter:** Jesse Niebaum
- P-3-410** The impact of speech disfluencies on the believability and recall of sentences **Poster Presenter:** Dr Sarah A Bibyk
- P-3-411** The Effect of Knowledge about a Group on Perceived Group Variability and Certainty about Stereotype-Based Inferences **Poster Presenter:** Thalia Vratsidis
- P-3-412** A study of hand manipulation and spatial tasks in which preschool girls perform well. **Poster Presenter:** Professor Mitsuru Noda
- P-3-413** Characteristics of Visualizations and Texts in Elementary School Biology Books **Poster Presenter:** David Menendez
- P-3-414** Are all Framing Effects Created Equal? Relationships between Risky Choice Framing, Metaphor Framing, and Language **Poster Presenter:** Paul Thibodeau
- P-3-415** Decision-Making Under Uncertainty in Major Depression Patients **Poster Presenter:** XIN SONG
- P-3-416** QuLBIT: Quantum-Like Bayesian Inference Technologies for Cognition and Decision **Poster Presenter:** Dr Catarina Moreira
- P-3-417** Modulating the coherence effect in causal-based processing **Poster Presenter:** Nicolas Marchant



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- P-3-418** How Can We Access Children' Basic Academic Skills? The Possibility of "Corrected Academic Skills" via an Alternative Approach **Poster Presenter:** Maiko Takahashi
- P-3-419** Intentional information sharing promotes cumulative culture relative to inadvertent behavioural cues: an experimental demonstration **Poster Presenter:** Ms Gemma Mackintosh
- P-3-420** Promoting relational responding by varying presentation conditions **Poster Presenter:** Graduate Researcher Mercury K Mason
- P-3-421** May I Have Your Attention? Testing a Subjective Attention Scale **Poster Presenter:** Dr Matthew Brian Welsh
- P-3-422** Modeling Gestalt Visual Reasoning on Raven's Progressive Matrices Using Generative Image Inpainting Techniques **Poster Presenter:** Tianyu Hua
- P-3-423** Beyond rationality: We infer other people's goals by learning agent-variable expectations of efficient action **Poster Presenter:** Joan Danielle K. Ongchoco
- P-3-424** Learning the internal structure of novel categories **Poster Presenter:** Sarah Solomon
- P-3-425** Exploring demographic differences in a large-scale study of Spanish word association norms: The role of age, gender, and nationality **Poster Presenter:** Gabriel Blanco-Gomez
- P-3-426** Enhancing Cognitive Assessment through Multimodal Sensing: A Case Study Using the Block Design Test **Poster Presenter:** Seunghwan Cha
- P-3-427** Biasing Moral Decisions Using Eye Movements: Replication and Simulation **Poster Presenter:** James Benjamin Falandays
- P-3-428** Cognitive Machine Theory of Mind **Poster Presenter:** Thuy Ngoc Nguyen
- P-3-429** Effects of Battle and Journey Metaphors on Charitable Donations for Cancer Patients **Poster Presenter:** Alex Liebscher
- P-3-430** Euphemism and Gender: A Computational Inquiry **Poster Presenter:** Anna Kapron-King
- P-3-431** Predicting Difficulty with Learning in the Mathematics Classroom: The Usefulness of Heart Rate Variability **Poster Presenter:** Kathryn deVries
- P-3-432** Dynamics of spatio-temporal scope of attention: Temporal Correlations in reaction time data **Poster Presenter:** Dr Devpriya Kumar
- P-3-433** Evidence for representation of symbolic associations and Negation logical operator in 4 mo old infants **Poster Presenter:** Dr Milad Ekramnia
- P-3-434** Cognitive offloading increases false recall. **Poster Presenter:** Xinyi Lu
- P-3-435** The early cue catches the word: how gesture supports cross-situational word learning **Poster Presenter:** Rachael W Cheung



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- P-3-436** Hemispheric asymmetries in "expert" processing of semantic relationships during reading **Poster Presenter:** Melissa Troyer
- P-3-437** Gender Gaps Correlate with Gender Bias in Social Media Word Embeddings **Poster Presenter:** Dr. Scott E Friedman
- P-3-438** Processing particularized pragmatic inferences under load **Poster Presenter:** Margarita Ryzhova
- P-3-439** A cognitive computational model of mindsets **Poster Presenter:** Miss Anne Lene Sax
- P-3-440** Contrasting RNN-based and simulation-based models of human physical parameter inference **Poster Presenter:** Héctor Otero Mediero
- P-3-441** Identifying the Bounds of Peripersonal Space with Phase Transition Methods **Poster Presenter:** Milou Huijsmans
- P-3-442** Young Children Do Not Anticipate That Sunk Costs Lead to Irrational Choices **Poster Presenter:** Claudia G. Sehl
- P-3-443** Analogy as Nonparametric Bayesian Inference over Relational Systems **Poster Presenter:** Dr Ruairidh McLennan Battleday
- P-3-444** Interactional context affects estimates of MLU based on words and morphemes **Poster Presenter:** Olivier Rüst
- P-3-445** Individual Working Memory Capacity Moderates the Power Effect on Cognitive Task Performance **Poster Presenter:** Leila Marcia Straub
- P-3-446** What is a choice in reinforcement learning? **Poster Presenter:** Milena Rmus
- P-3-447** A spiking neural architecture for conscious chaining of mental operations **Poster Presenter:** Hugo Chateau-Laurent
- P-3-448** Effects of Voiced Initial Consonants in Japanese Sound-Symbolic Words: Experiments 1 and 2 **Poster Presenter:** Akari Koda
- P-3-449** What remains of "belief bias" once we generalise logic to probabilities? **Poster Presenter:** Nicole Cruz
- P-3-450** fMTP: A Unifying Computational Framework of Temporal Preparation across Time Scales **Poster Presenter:** Josh Manu Salet
- P-3-451** Audiovisual Information Processing in Emotion Recognition: An Eye Tracking Study **Poster Presenter:** Ms Yueyuan Zheng
- P-3-452** Learning sequential patterns from graphical programs **Poster Presenter:** Anselm Rothe
- P-3-453** The Influence of Negated Causal Information on Pronoun Disambiguation **Poster Presenter:** Dr Eyal Sagi
- P-3-454** The surprising consequences of engaging in contrastive explanation **Poster Presenter:** Nadya Vasilyeva
- P-3-455** The development of accent-based friendship preferences: Age and language exposure matter **Poster Presenter:** Dr. Thomas St. Pierre



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P-3-456 A theory of bouletic reasoning **Poster Presenter:** Hillary Harner

P-3-457 A Mechanistic Account of Model-Free / Model-Based Trade-off and its Change Across Development **Poster Presenter:** Aude Marie Carteron

P-3-458 You're surprised at her success? Inferring competence from others' emotional responses to performance outcomes **Poster Presenter:** Mika Asaba

P-3-459 The Emergence and Propagation of Online Slang **Poster Presenter:** Zhewei Sun

P-3-460 Machine Learning Optimizes Assessment: New Insights for the Development of Numerosity Estimation **Poster Presenter:** Sang Ho Lee

P-3-461 Relationship between Social Support and Posttraumatic Growth for Korean Firefighters **Poster Presenter:** prof. Jeong Ryu

P-3-462 Are content effects out of sight? An eye-tracking study of arithmetic problem solving **Poster Presenter:** Hippolyte Gros

P-3-463 Interpersonal physiological linkage is related to excitement during a joint task **Poster Presenter:** Dr. Aiko Murata

P-3-464 Trust-Related Heuristics and Biases: How Do We Trust Healthcare Systems? **Poster Presenter:** Stephen Cantarutti

P-3-465 Infants' inferences about insides reveal parallel causal representations **Poster Presenter:** Dr. Jonathan F. Kominsky

P-3-466 Sensitivity to ostension is not sufficient for pedagogical reasoning by toddlers **Poster Presenter:** Dr Emma C Tecwyn

P-3-467 The representation of recursive center-embedded and cross-serial sequences in children and adults **Poster Presenter:** Stephen Ferrigno

P-3-468 Stereotypes Decrease Children's Tendency to Acknowledge Constraints on Choice **Poster Presenter:** Dr. Jamie Amemiya

P-3-469 When in Rome, do as Bayesians do: Statistical learning and parochial norms **Poster Presenter:** Scott Partington

P-3-470 Mental inference: Mind perception as Bayesian model selection **Poster Presenter:** Lukas Burger

P-3-471 Culturally-Constructed Beliefs About Physical and Mental Illness **Poster Presenter:** Samantha McCann

P-3-472 The Scaled Target Learning Model: A Novel Computational Model of the Balloon Analogue Risk Task **Poster Presenter:** Ran Zhou

P-3-473 a process model of procrastination **Poster Presenter:** PhD candidate Peiyuan Zhang

P-3-474 Inducing preference reversals by manipulating revealed preferences **Poster Presenter:** Harish Balakrishnan

P-3-475 Commonality Search as a Way of Facilitating Creative Thinking: A Comparison with the Alternative Categorization Task **Poster Presenter:** Mayu Yamakawa



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- P-3-476** Differences in Implicit vs. Explicit Grammar Processing as Revealed by Hierarchical Weibull Modeling of Reaction Times **Poster Presenter:** David Abugaber
- P-3-477** Risk preferences in option generation: Do risk-takers generate more risky courses of action? **Poster Presenter:** Meagan Padro
- P-3-478** Limited Domain Structure for Conjunction Errors **Poster Presenter:** Ethan J. Ludwin-Peery
- P-3-479** 'Eye Can Reason'- How Eye Parameters Marked one's Performance in a Visual Reasoning Task **Poster Presenter:** Mr. Pourush Sood
- P-3-480** Categorical perception as inference under uncertainty: New evidence from color **Poster Presenter:** Sonnet Phelps and Amit Millo
- P-3-481** Effects of domain size during reference production in photo-realistic scenes **Poster Presenter:** Ruud Koolen
- P-3-482** What Gives a Diagnostic Label Value? Common Use Over Informativeness **Poster Presenter:** Babak Hemmatian
- P-3-483** Color Categorization and Naming in Normal, Deficient, and Mixed Populations Using Agent Based Modelling **Poster Presenter:** Mr Rithwik J Cherian
- P-3-484** Sheer Time Spent Expecting or Maintaining a Representation Facilitates Subsequent Retrieval during Sentence Processing **Poster Presenter:** Hossein Karimi
- P-3-485** Modelling Perceptual Effects of Phonology with ASR Systems **Poster Presenter:** Bing'er Jiang
- P-3-486** Leftward Visuospatial Bias Predicts Children's Reading Fluency **Poster Presenter:** Debby Cheng
- P-3-487** Impact of sleep deprivation on EEG markers of emotion regulation in young adults **Poster Presenter:** Cheng Li
- P-3-488** Interaction with Context During Recurrent Neural Network Sentence Processing **Poster Presenter:** Forrest Davis
- P-3-489** Computational cognitive requirements of random decision problems **Poster Presenter:** Juan Pablo Franco
- P-3-490** Entropy of Sounds: Sonnets to Battle Rap **Poster Presenter:** Jordan A Ackerman
- P-3-491** Gesture Production and Theory of Mind: Effective Disambiguation in Communication through Gesture **Poster Presenter:** Minju Kim
- P-3-492** The Effect of Document Structure on Non-Native Readers in Web Document Reading for Information Acquisition **Poster Presenter:** Sangmin Han
- P-3-493** Effects of Coordination on Perspective-taking: Evidence from Eye-tracking **Poster Presenter:** Yipu Wei
- P-3-494** Differential Modulation Effects of Music Expertise on English and Chinese Sentence Reading **Poster Presenter:** Weiyan Liao
- P-3-495** The transformative potential of decisions **Poster Presenter:** Shahar Hechtlinger



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P-3-496 A Cross-linguistic Study into the Contribution of Affective Connotation in the Lexico-semantic Representation of Concrete and Abstract Concepts **Poster**

Presenter: Simon De Deyne

P-3-497 Encoding or Post Encoding Mechanisms Invoke Enhanced Memory for Event Boundaries? **Poster Presenter:** Rujuta Pradhan

P-3-498 Gesture and pause can facilitate chunking syntactic information in ambiguous phrases **Poster Presenter:** Harumi Kobayashi

P-3-499 Does bilingual input hurt? A simulation of language discrimination and clustering using i-vectors **Poster Presenter:** Maureen de Seyssel

P-3-500 Learning from explanations **Poster Presenter:** Lara Kirfel

P-3-501 Toddlers assign word labels to multiple polysemous meanings **Poster Presenter:** Sammy Floyd

P-3-502 7.5-month olds remember the location of a displaced object only if an agent acted on it **Poster Presenter:** Velisar Manea

P-3-503 Social Learning with Sparse Belief Samples **Poster Presenter:** Rabih Salhab

P-3-504 Balancing Personal and Social Outcomes: Cultural Differences in Children's Moral Decision-Making **Poster Presenter:** Yiqi Luo

P-3-505 Strategy Inference and Switch Detection Method Generalizes to Category Learning **Poster Presenter:** Alexander Hough

P-3-506 Self-reference effect for faces is mediated by attention **Poster Presenter:** Ms. Aditi Jublie

P-3-507 Can visual object representations in the human brain be modelled by untrained convolutional neural networks with random weights? **Poster Presenter:** Dr. Anna Truzzi

P-3-508 Unsupervised categorization as similarity-based generalization **Poster Presenter:** Dr. John Clapper

P-3-509 Prosodic Features Carry Information About a Question's Intent **Poster Presenter:** Igor Bascandziev

P-3-510 The Picture Guessing Game: The Role of Feedback in Active Artificial Language Learning **Poster Presenter:** Felicity F. Frinsel

P-3-511 Investigating the Structure of Emotion Concepts: Evidence from Property Generation **Poster Presenter:** Alexandra E Kelly

P-3-512 Cross-modal ratio abstraction in children **Poster Presenter:** Reem Tawfik

P-3-513 Hands in Thought and Motion **Poster Presenter:** Johannes Lohmann



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- P-3-514** Referent Management in Discourse: The Accessibility of Weak Definites **Poster Presenter:** Jet Hoek
- P-3-515** Using Think-Aloud Protocols to Explore Students' Use of Knowledge Forum Analytic Tools **Poster Presenter:** Leanne Ma
- P-3-517** Do social cues promote cross-situational verb learning and retention? **Poster Presenter:** Crystal Lee
- P-3-518** Artificial Language Learning: Combining Syntax and Semantics **Poster Presenter:** Dr Benjamin Wilson
- P-3-519** Applying the Common Model of Cognition to Resting-State fMRI Leads to the Identification of Abnormal Functional Connectivity in Parkinson's Disease
Poster Presenter: Micah Ketola
- P-3-520** You said something about me: Contextual self-relevance during a first encounter with a face impacts later face recognition **Poster Presenter:** Christopher M Lee
- P-3-521** Social influence and informational independence **Poster Presenter:** Justin Sulik
- P-3-523** Seeking Meaning: Examining a Cross-situational Solution to Learn Action Verbs Using Human Simulation Paradigm **Poster Presenter:** Yayun Zhang
- P-3-524** Punishment: Incentive or Communication? **Poster Presenter:** Arunima Sarin
- P-3-525** Look before you leap: Quantitative tradeoffs between peril and reward in action understanding **Poster Presenter:** Nensi Gjata
- P-3-526** Learning a Generative Model of Human Faces Through Inverse Rendering **Poster Presenter:** Skylar Sutherland
- P-3-527** Cross-Domain Adversarial Reprogramming of a Recurrent Neural Network **Poster Presenter:** Alexandra Maria Proca
- P-3-528** What counts as seeing? Young children's understanding of perceptual reports **Poster Presenter:** Emory Davis
- P-3-529** Does looking time predict choice in domestic dogs? Examining visual attention in man's best friend **Poster Presenter:** Liyuzhi Dong
- P-3-530** Infant looking-time preferences: does an information-theoretic model of infant looking behaviour scale up? **Poster Presenter:** Dr. Alexis K. Black
- P-3-531** Time flies: Hippocampal time cells represent the distant past with less resolution **Poster Presenter:** Rui Cao
- P-3-532** Causality and Self-Signaling in Economic Games **Poster Presenter:** Matthew Cashman
- P-3-533** English Speakers Produce and Understand Expletive Negation **Poster Presenter:** Yanwei Jin



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- P-3-534** Knowing when to quit: Children consider access to solutions when deciding whether to persist **Poster Presenter:** Alexandra Rett
- P-3-535** Evidence for win-stay-lose-shift in puppies and adult dogs **Poster Presenter:** Molly Byrne
- P-3-536** Striatal and Cortical Components of Inattentive Responses: An Experimental and Computational Study of the Wisconsin Card Sorting Test in Adults with ADHD traits **Poster Presenter:** Andrea Caso
- P-3-537** Semantic Adaptation in Quantifier Meanings in Preschool Aged Children **Poster Presenter:** Sophie Regan
- P-3-538** Directional biases in durative inference **Poster Presenter:** Laura J Kelly
- P-3-539** An emotionally intelligent actor model for virtual conference presenters **Poster Presenter:** Alexei V Samsonovich
- P-3-540** Bayesian inference in dialogue **Poster Presenter:** Asya Achimova
- P-3-541** Enculturing cognition: integrating material culture in human cognitive evolution **Poster Presenter:** Larissa Mendoza Straffon
- P-3-542** Adventures in Flatland: Perceiving Social Interactions Under Physical Dynamics **Poster Presenter:** Tianmin Shu
- P-3-543** What you didn't see: Prevention and generation in continuous time causal induction **Poster Presenter:** Tianwei Gong
- P-3-544** The One-Voice Expert **Poster Presenter:** Lisa Evelyn Rombout
- P-3-545** Affect and syntactic anomaly **Poster Presenter:** Prof Veena Dhar Dwivedi
- P-3-546** Improving Predictive Accuracy of Models of Learning and Retention Through Bayesian Hierarchical Modeling: An Exploration with the Predictive Performance Equation **Poster Presenter:** Mr Michael Gordon Collins
- P-3-547** Emotional Valence of Narratives Is Preserved Across Multiple Retellings **Poster Presenter:** Professor Fritz Breithaupt
- P-3-548** Tracking Age-Related Cognitive Decline: Insights from the Detection of Advertisements **Poster Presenter:** Raheleh Saryazdi
- P-3-549** Investigation of Attentional Decay: Implications for Instruction **Poster Presenter:** Karrie Godwin
- P-3-550** Research-Based Teaching Practices for Improving Students' Understanding of Mathematical Equivalence Have Not Made it into Elementary Classrooms **Poster Presenter:** Elena Marie Silla
- P-3-551** Perceiving unseen objects **Poster Presenter:** Katherine M Collins



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- P-3-552** Intelligence in humans, non-human animals, and machines **Poster Presenter:** Professor Oisin Deery
- P-3-553** Representing Typological Prevalence in Graph-Based Semantic Maps **Poster Presenter:** Qichao Wu
- P-3-554** Food sharing gave birth to social networks **Poster Presenter:** Francisco Plana
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