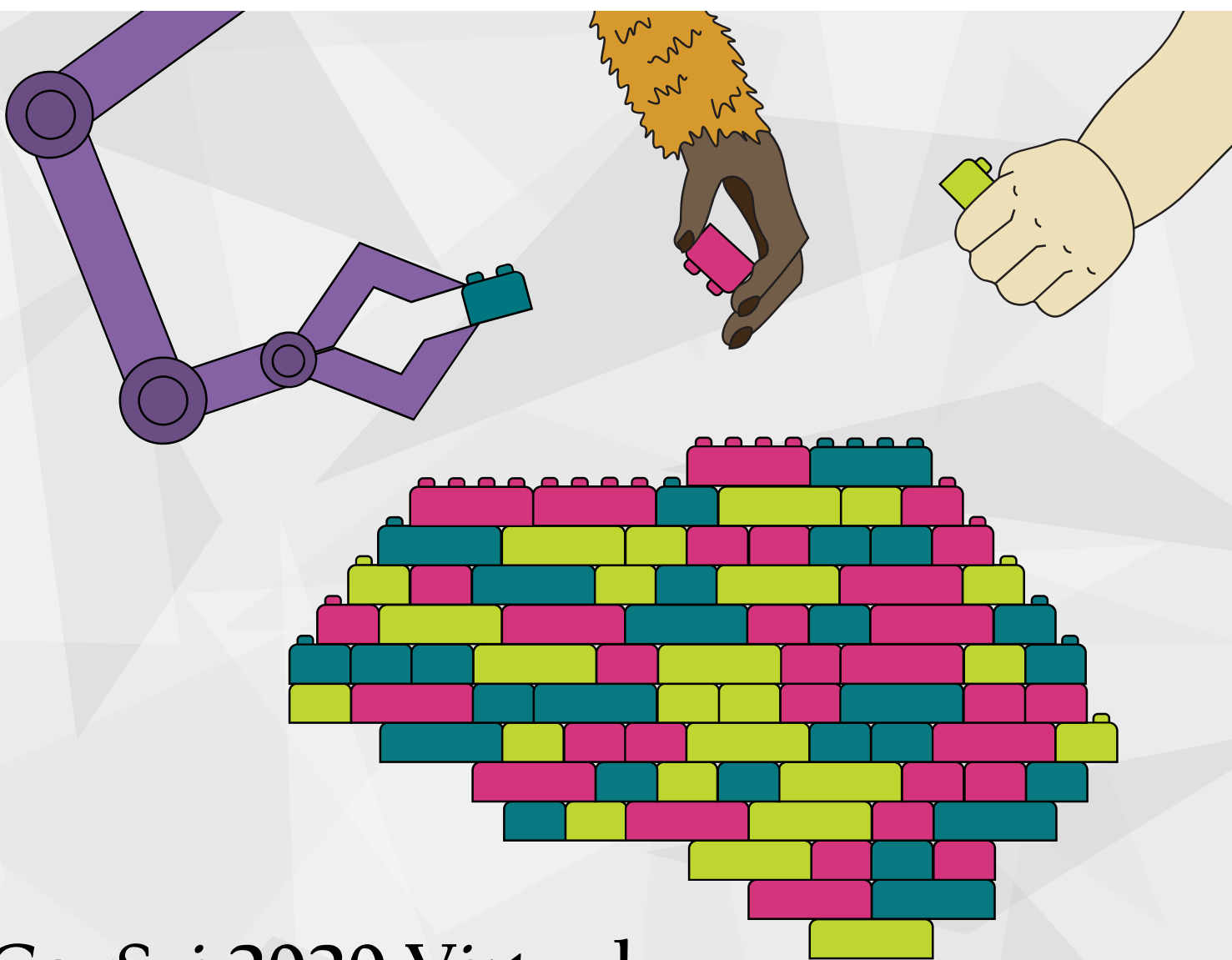




CogSci 2020 Virtual Program Booklet

Developing a Mind:
Learning in Humans, Animals, and Machines

INVITED SPEAKERS

Cecilia Heyes
Geoffrey Hinton
Janet Werker

INVITED PANELS

Deep Integration of Development and Cognitive Science
Social, Cultural, and Linguistic Constraints on Development
Statistical Learning and Development

Co-Chairs: Stephanie Denison | Michael Mack | Yang Xu | Blair C. Armstrong

Program for the 42nd Annual Meeting of the Cognitive Science Society

29 July – 1 August 2020

*Developing a Mind: Learning in
Humans, Animals, and Machines*

Program Chairs: Stephanie Denison, Michael Mack, Yang Xu,
Blair C. Armstrong

<http://www.cognitivesciencesociety.org/cogsci-2020>

Dear Colleagues,

Welcome to the 42nd Annual Conference of the Cognitive Science Society and our first ever virtual meeting! This year's conference brings together the latest research across all of Cognitive Science and also highlights the theme *Developing a mind: Learning in humans, animals, and machines*. In addition to the Rumelhart Prize keynote presentation by Stanislas Dehaene (Collège de France), the program features three plenary speakers: Janet Werker (University of British Columbia), Geoffrey Hinton (Google Research & Vector Institute), and Cecilia Heyes (University of Oxford), as well as three invited symposia. Further, the program includes a symposium to celebrate the inaugural winner of the Elman Prize: Jenny Saffran, and a symposium for the Robert J. Glushko Dissertation Awards. The keynotes and invited symposia showcase the broad spectrum of ideas that encompass the conference theme of *development*.

The program committee for CogSci 2020 received 1,174 submissions, including 841 full papers, 302 member abstracts, 12 publication-based talks, as well as 9 proposals for symposia, and 9 for workshops and tutorials. After a rigorous review process, the committee selected 176 papers for oral presentation and inclusion in the conference proceedings (20.9%), 325 papers for poster presentation and inclusion in the proceedings (38.6%), and 130 papers for poster presentation with inclusion of abstracts in the proceedings (15.5%). We also selected 237 submitted member abstracts. In addition, we accepted 4 publication-based talks, 9 symposia, and 9 workshops and tutorials to make for an exciting and inclusive program.

We hope that you enjoy the program this year!

Your Program Co-Chairs,

Stephanie Denison (University of Waterloo, Canada)

Michael Mack (University of Toronto, Canada)

Yang Xu (University of Toronto, Canada)

Blair C. Armstrong (University of Toronto, Canada)

Acknowledgements

We are extremely grateful to everyone who contributed to the planning and organization of this year's Cognitive Science virtual meeting, to all authors who submitted their contributions, and to all reviewers who generously donated their expertise and time to evaluate the submissions. We offer our special thanks to those reviewers who have completed additional reviews during the pandemic. We thank the members of the Program Committee who coordinated the reviews and made important recommendations about the submissions, and the members of the conference organizing subcommittees who showed high efficiency in completing their demanding tasks. We list the Organizing and Program Committee members in the following pages.

We are very grateful for the assistance of a number of individuals and groups critical to handling the many organizational aspects of the virtual meeting. We thank Asifa Majid, the Chair of the Cognitive Science Society, Anna Drummey, the Executive Officer of the Society, and the entire Governing Board of the Society, for their advice and support throughout the process. We also thank the Virtual Conference Committee for taking on the major logistical tasks associated with moving the conference online. Lauren Moline and Jude Ross at Podium Conferences, and James Stewart at Precision Conference Solutions have been helpful, effective, and constant partners during the process. Additional help included key contributions from Desmond Ong for speedy communication, Timothy Rogers for the awards organization, and Yevdokiya Yermolayeva for creating the conference poster.

Finally, we are grateful to the Cognitive Science Society and to the sponsors of this conference, including the The Robert J. Glushko and Pamela Samuelson Foundation, Duolingo and MIT-IBM Watson AI Lab, as well as the Exhibitors, for their support.

Enjoy the virtual conference!

Stephanie Denison, Michael Mack, Yang Xu, and Blair C. Armstrong
Co-Chairs, CogSci2020

Organizing Committee

Program

Stephanie Denison
Michael Mack
Yang Xu
Blair C. Armstrong

Tutorials and Workshops

Elizabeth Bonawitz
Naomi Feldman
John McCoy
Iris van Rooij

Awards

Timothy Rogers
Judith Fan
Anna Fisher
Padraic Monaghan
Anna Schapiro

Sponsorship

Roger Levy
Tom Griffiths
Noah Goodman

Communications

Desmond Ong

Advisory Board

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Craig Chambers
Daphna Heller
Suzanne Stevenson
Paul Thagard

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Vikranth Rao Bejjanki
Gary Lupyan
Doug Markant
Elise Piazza

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Kevin Gluck
Roger Levy
Asifa Majid
Kenny Smith

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Evangelia Chryiskou
Sarah Creel
Elisabeth Karuza

Society Conference Committee

Anna Papafragou
Arun Ashok
Daniel Grodner
Timothy Rogers

Symposia

Gary Cottrell
Morton Gernsbacher

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Wai Fu
Alexia Galati
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Maurice Grinberg
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Hyowon Gweon
Sebastien Helie
Daphna Heller
Kevin Holmes
Keith Holyoak
Janet Hsiao
Edward Hubbard
Bipin Indurkha
Julian Jara-Ettinger
Alan Jern
Elizabeth Johnson
Ion Juvina
Elisabeth Karuza
Mark T Keane
Christopher Kello
Celeste Kidd
Woojae Kim
Pia Knoeferle
Ken Koedinger
Stefan Kopp
Devpriya Kumar
Maithilee Kunda
Kenneth Kurtz
Vicky Tzuyin Lai
Brenden Lake
Claus Lamm
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Roger Levy
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Hongjing Lu
Chris Lucas
Christian Luhmann
Gary Lupyan
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Lorenzo Magnani
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Geraint Wiggins
Joseph Williams
Grzegorz Wójcik
Fei Xu
Yang Xu
Chen Yu
Dan Yurovsky

Conference Services

The real-time streaming of CogSci 2020 will be at the following times, from July 29 – August 1:

- 9:00am-4:00pm EDT (Toronto)
- 6:00am-1:00pm PDT (Los Angeles)
- 2:00pm-9:00pm BST (London)
- 3:00pm-10:00pm CET (Vienna)

Pre-Registration

If you have completed your registration for the virtual conference, please enter the virtual platform through the [CogSci 2020](#) website, and follow the instructions.

Registration

If you wish to register and have not yet done so, please register [here](#).

Note: Registrations completed after July 26 will experience a delayed access to the virtual conference.

Code of conduct

By entering the virtual platform and participating in CogSci 2020 you are agreeing to the CogSci 2020 Code of Conduct. **To read the code of conduct, please [click here](#)**

Technical help during the virtual conference

If you encounter any technical issues during your virtual experience, please contact the software provider directly, by either visiting the 'Help Desk' while online, or emailing: production@vconferenceonline.com

Additional Information

Business Meeting

The Society business meeting will be available on-demand to view any time throughout the conference dates, to ensure it is accessible to all. We encourage you to view the business

meeting video early in the conference proceedings, to be apprised of all Society news and information ahead of any voting requests.

Q&A Sessions

The virtual conference Q&A sessions will mostly take place via text chat. The chat boxes are located just below the viewing screens.

Zoom Q&A sessions will be available for most of the invited sessions. Please look out for urls cut and pasted into the Q&A chat boxes, as well as the blue 'Zoom' button situated at the top of the viewing screen.

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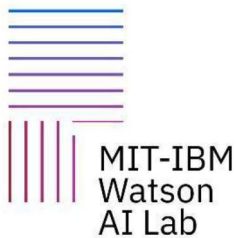


Duolingo

Duolingo is the most popular language-learning platform and the most downloaded education app worldwide, with more than 300 million total learners. The company's mission is to make education free and accessible to all. Duolingo offers 96 total courses across more than 30 distinct languages, and is available on iOS, Android, and Web at www.duolingo.com

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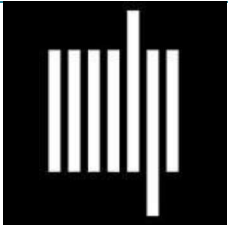


MIT-IBM Watson AI Lab

The MIT-IBM Watson AI Lab brings together researchers in academia and industry to advance fundamental science for real-world impact. The Lab funds about 50 projects per year that are co-led by principal investigators from MIT and IBM Research. Projects range from computer vision, natural language processing and reinforcement learning, to devising new ways to ensure that AI systems are fair, reliable and secure. Results are published regularly at top peer-reviewed journals and conferences in machine learning and quantum science.

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Exhibitors



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Conference Awards

Marr Prize

The Marr Prize, named in honor of the late David Marr, is awarded to the best student paper at the conference. All student first authors were eligible for the Marr Prize for the best student paper. The Marr Prize includes an honorarium of \$1000 and is sponsored by The Cognitive Science Society. The winner of the 2020 Marr Prize for the Best Student Paper is:

Anjali Sifar, Indian Institute of Technology

Limits on predictability of risky choice behavior

Summary: “We empirically establish lower bounds on prediction error that realistic models of risky choice can expect to achieve.”

Computational Modeling Prizes

Four prizes worth \$1000 each are awarded for the best full paper submissions to CogSci 2020 that involve computational cognitive modeling. The four prizes represent the best modeling work in the areas of perception/action, language, higher-level cognition, and applied cognition. These prizes are sponsored by The Cognitive Science Society. The winners of the 2020 Computational Modeling Prizes are:

Perception and Action:

Ruomeng Zhu, The University of Edinburgh

Synchrony and asynchrony of the two eyes in binocular fixations in the reading of English and Chinese: The implications for ocular prevalence

Summary: “A study of fine-grain motor coordination of the eyes in reading in English and Chinese and its relation to perception.”

Language:

Robert Hawkins, Princeton University

Generalizing meanings from partners to populations: Hierarchical inference supports convention formation on networks

Summary: “We test a model of how linguistic meaning is generalized from partner-specific common ground to community-wide conventions.”

Higher Cognition:

Sarah A. Wu and Rose E. Wang, Massachusetts Institute of Technology

Too many cooks: Coordinating multi-agent collaboration through inverse planning

Summary: “A Bayesian approach to learning group goals is a model of human intention attribution and enables agents to cooperate.”

Applied Cognition:

Lauren A. Oey and Isabella Destefano, University of California, San Diego

Formalizing Interdisciplinary Collaboration in the CogSci Community

Summary: “We introduce bottom-up network and topic space measures to an ongoing debate: is CogSci more inter- or multi-disciplinary?”

Sayan Gul Award

Sayan Gul was an undergraduate at UC Berkeley studying cognitive science and computer science, and had great potential as a cognitive scientist. This award is intended to support similarly outstanding undergraduates conducting research in cognitive science. In memory of Sayan Gul, the award supports undergraduate students with travel related costs who are presenting authors at the conference. The Sayan Gul Award includes a cash award of \$500. This year’s recipient of the Sayan Gul award is:

Chelsea Campbell, Indiana University

How much to copy from others? The role of partial copying in social learning

Summary: “Our research has found that groups solving complex problems perform best when they copy only part of their peers’ solutions.”

Cognitive Science Society Prizes

Robert J. Glushko Dissertation Prizes

The Cognitive Science Society and the Robert J. Glushko and Pamela Samuelson Foundation award up to five outstanding dissertation prizes in cognitive science each year. The goals of these prizes are to increase the prominence of cognitive science and encourage students to engage in interdisciplinary efforts to understand minds and intelligent systems. The hope is that the prizes will recognize and honor young researchers conducting ground-breaking research in cognitive science. The eventual goal is to aid in efforts to bridge between the areas of cognitive science and create theories of general interest to the multiple fields concerned with scientifically understanding the nature of minds and intelligent systems. Promoting a unified cognitive science is consistent with the belief that understanding how minds work will require the synthesis of many different empirical methods, formal tools, and analytic theories. 2011 was the inaugural year of this prize, and a new competition is held annually.

The 2020 recipients are as follows, and will be featured in a special session Saturday August 1, 9:00-11:20 EST:

Damián Blasi – Max Planck Institute for Mathematics in the Sciences, 2018

Linguistic Diversity Through Data

Stephen Ferrigno – University of Rochester, 2018

The Evolutionary and Developmental Origins of Human Thought

Shipra Kanjlia – Johns Hopkins University, 2018

Preservation and Plasticity in the Neural Basis of Numerical Thinking in Blindness

Falk Lieder – University of California, Berkeley, 2018

Beyond Bounded Rationality: Reverse-Engineering and Enhancing Human Intelligence

Sebastian Michelmann – University of Birmingham, 2018

Temporal Dynamics and Mechanisms of Oscillatory Pattern Reinstatement in Human Episodic Memory

Laurel Perkins – University of Maryland, 2019

How Grammars Grow: Argument Structure and the Acquisition of Non-basic Syntax

Leor Zmigrod – University of Cambridge, 2019

The Cognitive Underpinnings of Ideological Thinking

The Jeffrey L. Elman Prize for Scientific Achievement and Community Building

Awarded during Welcome and Awards: Thursday, July 30, 9:00 - 9:20 EST

In recognition of Jeffrey L. Elman's many contributions to the field of cognitive science, the Cognitive Science Society in partnership with the University of California, San Diego awards a prize at the Cognitive Science Society annual meeting to mid-career cognitive scientists (individuals or teams) whose careers exemplify the twin strands of scientific excellence and commitment to community-building and service that were so evident in his career. Jeffrey Elman made major contributions to the theoretical foundations of human cognition, most notably in the areas of language and development. His work continues to have an immense impact across fields as diverse as cognitive science, psycholinguistics, developmental psychology, evolutionary theory, computer science and linguistics. In addition to his important intellectual contributions, he also was an inspiring scientific citizen who is remembered for his generosity and mentorship.

The inaugural Elman Prize has been awarded to **Jenny Saffran**, the Vilas Distinguished Achievement Professor at the University of Wisconsin-Madison.

Elman Symposium

Thursday, July 30, 9:20 – 11:00 EST

Symposium chair: Erik Theissen (Carnegie Mellon University)

Presenters: Erik Theissen; Casey Lew-Williams (Princeton University); Jessica Hay (University of Tennessee Knoxville); Jenny Saffran

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.

David E. Rumelhart Prize

The David E. Rumelhart Prize is awarded annually to an individual or collaborative team making a significant contemporary contribution to the theoretical foundations of human cognition. Contributions may be formal in nature: mathematical modeling of human cognitive processes, formal analysis of language and other products of human cognitive activity, and computational analyses of human cognition using symbolic or non-symbolic frameworks all fall within the scope of the award. The David E. Rumelhart Prize is funded by the Robert J. Glushko and Pamela Samuelson Foundation. The prize consists of a hand-crafted, custom bronze medal, a certificate, a citation of the awardee's contribution, and a monetary award of \$100,000.

The recipient of the 2020 Prize is **Sanislas Dehaene**, from the Collège de France.

Prize Presentation

Friday, July 31, 14:20 – 15:20 EST

Probing the singularity of the human brain from numbers to symbols and mathematics

Stanislas Dehaene, Collège de France

The Rumelhart Prize Reception and Announcement of the 21st Rumelhart Prize Recipient follow the Prize Presentation on Friday, July 31st, 15:20 – 16:00 EST.

Invited Presentations

Keynote Talks

Thursday, July 30th: 13:00 - 14:00 EST

Janet Werker, University of British Columbia

Perceptual Beginnings to Language Acquisition: Critical Periods and Multi-Sensory Influences

Friday, July 31st: 13:00 - 14:00 EST

Geoffrey Hinton, Google Research & Vector Institute

Unsupervised Learning

Saturday, August 1st: 12:40 - 13:40 EST

Cecilia Heyes, University of Oxford

Cognitive Gadgets - New Thinking from Old Parts

Invited Symposia

Thursday, July 30th: 14:20 - 16:00 EST

Statistical Learning and Development

Presenters

Inbal Arnon & Ori Lavi-Rotbain (The Hebrew University of Jerusalem)

Laura Batterink (Western University)

Naomi Feldman (University of Maryland)

Rebecca Gomez (University of Arizona)

Friday, July 31st: 9:00 - 10:40 EST

Fostering Deep Integration Between Development and Different Domains of Cognitive Science

Presenters

Chris Eliasmith (University of Waterloo)

Celeste Kidd (University of California, Berkeley)

Tetsuro Matsuzawa (Kyoto University)

Joelle Proust (Ecole Normale Supérieure)

Saturday, August 1st: 14:00 - 15:40 EST

The Impact of Social, Cultural and Linguistic Constraints on Development

Presenters

Kristin Andrews (York University)

Roger Levy (MIT)

Amanda Seed (University of St Andrews)

Kenny Smith (University of Edinburgh)

Workshops Wednesday, July 29th	EDT	PDT	BST	CEST	Wednesday, July 29th												
	TORONTO	LA	LONDON	PARIS													
	8:00	5:00	13:00	14:00	Workshop 1	Workshop 2	Workshop 3	Workshop 4	Workshop 5	Workshop 6	Workshop 7	Workshop 8	Workshop 9				
	8:30	5:30	13:30	14:30	Mental effort: One construct, many faces?	Cognition, Collectives, and Human Culture	The Origins of Common Sense in Humans and Machines	How stories shape us, and how we shape stories	From Efficient Coding to Information Gain: Information-Theoretic Principles in Models of Human Decision Making	Workshop on Scaling Cognitive Science	Making Science Accessible: A Co-design of Non-visual Representations for Visually Impaired Students	Building neural processing accounts of higher cognition in Dynamic Field Theory					
	9:00	6:00	14:00	15:00													
	9:20	6:20	14:20	15:20													
	9:40	6:40	14:40	15:40													
	10:00	7:00	15:00	16:00													
	10:20	7:20	15:20	16:20													
	10:40	7:40	15:40	16:40													
	11:00	8:00	16:00	17:00													
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	15:40	12:40	20:40	21:40													
	16:00	13:00	21:00	22:00													
16:20	13:20	21:20	22:20														
16:40	13:40	21:40	22:40														

Day 1 Thursday, July 30th	EDT	PDT	BST	CEST	Featured Sessions	Thursday, July 30, 2020										On-demand	Poster Hall	
	TORONTO	LA	LONDON	PARIS	Stream 1	Stream 2	Stream 3	Stream 4	Stream 5	Stream 6	Stream 7	Stream 8	Stream 9	Stream 10				
	8:00	5:00	13:00	14:00														
	8:30	5:30	13:30	14:30														
	9:00	6:00	14:00	15:00	Welcome/ Opening & Awards											Chat Rooms Poster Hall Exhibit Hall	Poster Session ALL (on demand)	
	9:20	6:20	14:20	15:20	Elman Symposium	Symposium: Spatial Reorientation	Symposium: Proportional Reasoning	Choices and Decisions	Neuroscience and Psychophysics	Human Learning	Semantics	Modeling Language	Memory	Gender and Individuals				
	9:40	6:40	14:40	15:40														
	10:00	7:00	15:00	16:00														
	10:20	7:20	15:20	16:20														
	10:40	7:40	15:40	16:40	Break													
	11:00	8:00	16:00	17:00														
	11:20	8:20	16:20	17:20		Poster Session												
	11:40	8:40	16:40	17:40														
	12:00	9:00	17:00	18:00														
	12:20	9:20	17:20	18:20														
	12:40	9:40	17:40	18:40	Plenary Speaker: Janet Werker													
	13:00	10:00	18:00	19:00														
	13:20	10:20	18:20	19:20														
	13:40	10:40	18:40	19:40														
	14:00	11:00	19:00	20:00	Break													
	14:20	11:20	19:20	20:20														
	14:40	11:40	19:40	20:40		Invited Panel: Statistical Learning and Development	Symposium: Health and Decision Making	Symposium: Past Cognition	Language and Groups	Judgment and Decision Making	Facets of Cognition	Language Development	Neural Networks	Events, Actions, and Sequencing	Emotions and Beliefs			
	15:00	12:00	20:00	21:00														
	15:20	12:20	20:20	21:20														
	15:40	12:40	20:40	21:40														
	16:00	13:00	21:00	22:00											Live sessions become available on-demand 15mn after ending	Poster Sessions All (on demand)		
16:20	13:20	21:20	22:20															
16:40	13:40	21:40	22:40															

CogSci 2020 Program at a Glance

Day 2 Friday, July 31st	EDT	PDT	BST	CEST	Featured Sessions		Friday, July 31, 2020										On-demand	Poster Hall
	TORONTO	LA	LONDON	PARIS	Stream 1		Stream 2	Stream 3	Stream 4	Stream 5	Stream 6	Stream 7	Stream 8	Stream 9	Stream 10			
	8:00	5:00	13:00	14:00											Chat Rooms Poster Hall Exhibit Hall Business Meeting w/ survey Live sessions become available on-demand 15mn after ending	Poster Session ALL (on demand)		
	8:30	5:30	13:30	14:30														
	9:00	6:00	14:00	15:00	Invited Panel: Fostering Deep Integration	Symposium: Human Performance	Symposium: Learning via Insight	Complex Dynamics	Learning and Development	Numerosity	Language and Meaning	Speech and Phonetics	Spatial Cognition	Categorization				
	9:20	6:20	14:20	15:20														
	9:40	6:40	14:40	15:40														
	10:00	7:00	15:00	16:00														
	10:20	7:20	15:20	16:20	Break													
	10:40	7:40	15:40	16:40														
	11:00	8:00	16:00	17:00														
	11:20	8:20	16:20	17:20														
	11:40	8:40	16:40	17:40														
	12:00	9:00	17:00	18:00	Poster Session													
	12:20	9:20	17:20	18:20														
	12:40	9:40	17:40	18:40														
	13:00	10:00	18:00	19:00														
	13:20	10:20	18:20	19:20	Plenary Speaker: Geoffrey Hinton													
	13:40	10:40	18:40	19:40														
	14:00	11:00	19:00	20:00	Break													
14:20	11:20	19:20	20:20	Rumelhart Prize Talk: Stanislas Dehaene														
14:40	11:40	19:40	20:40															
15:00	12:00	20:00	21:00	Rumelhart Reception														
15:20	12:20	20:20	21:20															
15:40	12:40	20:40	21:40															
16:00	13:00	21:00	22:00															
16:20	13:20	21:20	22:20															
16:40	13:40	21:40	22:40															

Day 3 Saturday, August 1	EDT	PDT	BST	CEST	Featured Sessions		Saturday, August 1, 2020										On-demand	Poster Hall
	TORONTO	LA	LONDON	PARIS	Stream 1		Stream 2	Stream 3	Stream 4	Stream 5	Stream 6	Stream 7	Stream8	Stream9	Stream10			
	8:00	5:00	13:00	14:00											Chat Rooms Poster Hall Exhibit Hall Business Meeting w/ survey Live sessions become available on-demand 15mn after ending	Poster Session ALL (on demand)		
	8:30	5:30	13:30	14:30														
	9:00	6:00	14:00	15:00	Glushko Talks		Symposium: Cognitive Models of Time	Symposium: Computational Models of Comics	Reading and Processing	Language and Uncertainty	Linguistics	Comparative and Cultural Cognition	Concepts and Systems	Biases			Social Inference	
	9:20	6:20	14:20	15:20														
	9:40	6:40	14:40	15:40														
	10:00	7:00	15:00	16:00														
	10:20	7:20	15:20	16:20	Poster Session													
	10:40	7:40	15:40	16:40														
	11:00	8:00	16:00	17:00														
	11:20	8:20	16:20	17:20														
	11:40	8:40	16:40	17:40	Plenary Speaker: Cecilia Heyes													
	12:00	9:00	17:00	18:00														
	12:20	9:20	17:20	18:20														
	12:40	9:40	17:40	18:40														
	13:00	10:00	18:00	19:00	Break													
	13:20	10:20	18:20	19:20														
	13:40	10:40	18:40	19:40	Invited Panel: The Impact of Social, Cultural and Linguistic Constraints on Development	Symposium: Current State of Cognitive Science	Agent-based Models	Social Learning	Forms of learning	Reasoning	Pragmatics	Word Learning	Attention and Faces					
	14:00	11:00	19:00	20:00														
14:20	11:20	19:20	20:20															
14:40	11:40	19:40	20:40															
15:00	12:00	20:00	21:00	Close														
15:20	12:20	20:20	21:20															
15:40	12:40	20:40	21:40															
16:00	13:00	21:00	22:00															
16:20	13:20	21:20	22:20															
16:40	13:40	21:40	22:40															



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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: University of Stuttgart; 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: Massachusetts Institute of Technology; 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: University of California, Berkeley; Alison Gopnik: University of California, Berkeley; Deepak Pathak: Carnegie Mellon University; Alan Fern: Oregon State University; Josh Tenenbaum: Massachusetts Institute of Technology; 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
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



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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

12:00 – 4:00

9:00 – 1:00

17:00 – 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: Pennsylvanian State University

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



CogSci 2020 Searchable Program

TIME ZONES			DAY 1: JULY 30, 2020	
TORONTO	LA	LONDON		
Track #1			Poster Hall and Exhibit Hall On-Demand	
			Business Meeting On-Demand Vote for the Bylaw Changes	
	9:00 – 9:20	6:00 – 6:30	14:00 – 14:20	Track#1
	9:20 – 11:00	6:20 – 8:00	14:40 – 16:00	Track#1
			Welcome – Opening & Awards	
			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	



CogSci 2020 Searchable Program

11:00– 11:20	8:00 – 8:20	16:00 – 16:20	Track#1	BREAK / SOCIAL TIME	
11:20 – 13:00	8:20 – 10:00	16:20 – 18:00	Track#1	Poster Session #1	
13:00 – 14:00	10:00 – 11:00	18:00 – 19:00	Track#1	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	Track#1	BREAK / SOCIAL TIME	
14:20 – 16:00	11:20 – 13:00	19:20 – 21:00	Track#1	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</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)	



CogSci 2020 Searchable Program

Track #2

9:20 – 11:00

6:20 – 8:00

14:40 – 16:00

Track#2

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



CogSci 2020 Searchable Program

14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Track#2

(Stürzl, Cheung, Cheng, & Zeil, 2008) and learning theory accounts (Miller & Shettleworth, 2007).

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

We make decisions that affect our short-term and long-term health several times every day. We all have beliefs about what is good for us and what is bad for us (and we at least sometimes act in accordance in those beliefs). How we form these beliefs, and how these beliefs do or do not affect our future behavior is a domain ripe for cognitive science research. Given the importance of topics such as causal reasoning, reinforcement learning, and decision-making to our field, one might expect direct applications to health to be at the forefront. However for the sake of experimental control and formal control, researchers typically conduct experiments with novel materials disconnected from real world beliefs and design experimental tasks that may not reflect the true structure of the domain. The goal of this symposium is to show how the domain of health is perfect for a more tightly coupled exchange between investigating real-world beliefs and behavior with controlled experimental tasks ready for formal explanation.

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



CogSci 2020 Searchable Program

Track #3

9:20 – 11:00

6:20 – 8:00

14:40 – 16:00

Track#3

Toward a unified theory of proportion

Symposium Chair: Michelle Hurst, University of Chicago

Presenters: Stephanie Denison & Samantha Gualtieri, University of Waterloo; Michelle Hurst, University of Chicago; Yunji Park & Percival Matthews, 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

Track#3

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

Additional Authors: Erin Hecht; Justin Pargeter.



CogSci 2020 Searchable Program

Track #4

9:20 – 11:00

6:20 – 8:00

14:40 – 16:00

Track#4

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 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

Choices and Decisions

1803 ***Limits on predictability of risky choice behavior*** (Anjali Sifar: Indian Institute of Technology, Kanpur; Nisheeth Srivastava: Indian Institute of Technology)

1588 ***What determines the learned predictiveness effect? Separating cue-outcome correlation from choice relevance*** (Jessica Lee: University of New South Wales; Justine K Greenaway: University of Sydney; Evan Livesey: University of Sydney)



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2055 ***Exploration decisions precede and improve explicit uncertainty judgments in preschoolers*** (Elizabeth Lapidow: University of California, San Diego; Isabella Mackenzie Killeen: University of Minnesota Law; Caren M. Walker: University of California San Diego)

1918 ***Prospect theory and optimal risky choices with goals*** (Jana Jarecki: University of Basel; Jörg Rieskamp: University of Basel)

2404 ***Toward unifying cognitive architecture and neural task set theories*** (Bryan Stearns: University of Michigan; John E Laird: University of Michigan)

14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Track#4

Language and Groups

1830 ***Influence of partner behaviour on overspecification*** (Jia Loy: University of Edinburgh; Kenny Smith: University of Edinburgh)

2366 ***Generalizing meanings from partners to populations: Hierarchical inference supports convention formation on networks*** (Robert Hawkins: Princeton University; Noah Goodman: Stanford University; Adele Goldberg: Princeton University; Tom Griffiths: Princeton University)

2380 ***Probabilistic weighting of perspectives in dyadic communication*** (Rachel Ryskin: Massachusetts Institute of Technology; Suzanne Stevenson: University of Toronto; Daphna Heller: University of Toronto)

2433 ***Production expectations modulate contrastive inference*** (Elisa Kreiss: Stanford University; Judith Degen: Stanford University)

2222 ***Does informational independence always matter? Children believe small group discussion is more accurate than ten times as many***



CogSci 2020 Searchable Program

Track #5

9:20 – 11:00

6:20 – 8:00

14:40 – 16:00

Track#5

independent informants (Emory Richardson: Yale University; Frank Keil: Yale University)

Neuroscience and Psychophysics

1025 ***Adaptations of executive function and prefrontal cortex connectivity following exergame play in 4- to 5-year old children*** (Cassondra M Eng: Carnegie Mellon University; Melissa Pocsai: Carnegie Mellon University; Frank Anthony Fishburn: University of Pittsburgh; Dominic Calkosz: Carnegie Mellon University; Erik Thiessen: Carnegie Mellon University; Anna Fisher: Carnegie Mellon University)

1293 ***Dissociable systems for recognizing places and navigating through them: neuropsychological and developmental evidence*** (Frederik Kamps: Massachusetts Institute of Technology; Samaher F Radwan: Stanford University; Stephanie Wahab: Augusta University; Jordan Pincus: Marcus Autism Center; Daniel Dilks: Emory University)

1708 ***Motor interference changes meaning*** (Omar Escámez: University of Granada; Daniel Casasanto: Cornell University; Gabriella Vigliocco: University College London; Julio Santiago: 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; Wayne D. Gray: Rensselaer Polytechnic Institute)

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



CogSci 2020 Searchable Program

14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Track#5

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; Shi Xian Liew: The University of New South Wales; Danielle Navarro: The University of New South Wales; Ben Newell: The University of New South Wales)

2262 ***Knowledge Representations in Health Judgments*** (Natasha Gandhi: University of Warwick; Wanling Zou: University of Pennsylvania; Caroline Meyer: University of Warwick; Sudeep Bhatia: University of Pennsylvania; Lukasz Walasek: University of Warwick)

1139 ***Learning what is relevant for rewards via value-based serial hypothesis testing*** (Mingyu Song: Princeton University; Yael Niv: Princeton University; Mingbo Cai: University of Tokyo)

2175 ***Dual processes in relational judgment: A computational framework*** (Sudeep Bhatia: University of Pennsylvania; Russell Richie: University of Pennsylvania; Wenjia Joyce Zhao: University of Pennsylvania)

1308 ***Joint action planning: co-actors minimize the aggregate individual costs of actions*** (Georgina Török: Central European University; Oana Stanciu: Central European University; Natalie Sebanz: Central European University; Gergely Csibra: Central European University)



CogSci 2020 Searchable Program

Track #6

9:20 – 11:00

6:20 – 8:00

14:40 – 16:00

Track#6

Human Learning

2041 ***Explanation supports hypothesis generation in learning*** (Erik Brockbank: University of California San Diego; Caren M. Walker: University of California San Diego)

1695 ***Analogical transfer and recognition memory in relational classification learning*** (Sean Snoddy: Binghamton University; Kenneth Kurtz: Binghamton University)

2007 ***Learning to build physical structures better over time*** (William P. McCarthy: University of California San Diego; David Kirsh: University of California San Diego; 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; Eli Vakil: Bar Ilan University)

14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Track#6

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)



CogSci 2020 Searchable Program

Track #7

9:20 – 11:00

6:20 – 8:00

14:40 – 16:00

Track#7

2153 **Quantifying curiosity: A formal approach to dissociating causes of curiosity** (Emily G Liquin: Princeton University; Frederick Callaway: Princeton University; Tania Lombrozo: Princeton University)

1951 **Explaining the existential: Functional roles of scientific and religious explanation** (Telli Davoodi: Princeton University; Tania Lombrozo: Princeton University)

2000 **The latent factor structure of developmental change in early childhood** (Ben Stenhaus: Stanford University; Michael C. Frank: 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; Grace Lisandrelli: Indiana University; Rebecca C. Schaffer: Cincinnati Children's Hospital; Kelli C Dominick: Cincinnati Children's Hospital; Ernest Pedapati: Cincinnati Children's Hospital; Craig A. Erickson: Cincinnati Children's Hospital; Daniel P Kennedy: Indiana University; Chen Yu: Indiana University, Bloomington)

Semantics

1158 **Systematicity in a recurrent neural network by factorizing syntax and semantics** (Jacob Russin: University of California, Davis; Jason Jo: University of Montreal; Randall C. O'Reilly: University of California, Davis; Yoshua Bengio: University of Montreal)

2493 **Distinguishing fact from opinion: Effects of linguistic packaging** (Elsi Kaiser: University of Southern California; Catherine Wang: University of Southern California)



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2424 ***Symmetric alternatives and semantic uncertainty modulate scalar inference*** (Brandon Waldon: Stanford University; Judith Degen: Stanford University)

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

2463 ***Becoming organized: How simple learning mechanisms may shape the development of rich semantic knowledge*** (Olivera Savic: The Ohio State University; Layla Unger: The Ohio State University; Vladimir Sloutsky: The Ohio State University)

14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Track#7

Language Development

2106 ***Structured ecologies for social and linguistic development*** (Joanna Rączaszek-Leonardi: University of Warsaw; Katharina Rohlfing: Paderborn University)

2204 ***Not what you expect: The relationship between violation of expectation and negation*** (Victor Gomes: University of Pennsylvania; Yubin Huh: University of Pennsylvania; John Trueswell: University of Pennsylvania)

1122 ***Can automated gesture recognition support the study of child language development?*** (Soumitra Samanta: University of Liverpool; Colin Bannard: University of Liverpool; Julian M. Pine: University of Liverpool; Language05 Team: University of Liverpool)



CogSci 2020 Searchable Program

Track #8

9:20 – 11:00

6:20 – 8:00

14:40 – 16:00

Track#8

2246 ***The (un)surprising kindergarten path*** (Zoe Ovans: University of Maryland; Yi Ting Huang: University of Maryland; Naomi H Feldman: University of Maryland)

1418 ***The complementary roles of knowledge and strategy in insight problem-solving*** (Thomas C Ormerod: University of Sussex; James N. MacGregor: University of Victoria)

Modeling Language

1353 ***A model of temporal connective acquisition*** (Mark Antony Gorenstein: UC Berkeley; Zhang Cedegao: UC Berkeley; Steven Piantadosi: University of California, 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; Lili Yu: Macquarie University; Sally Andrews: The University of Sydney; Erik D Reichle: Macquarie University)

1745 ***Interactions of length and overlap in the TRACE model of spoken word recognition*** (James Magnuson: University of Connecticut; Elizabeth Schoen Simmons: University of Connecticut)

1727 ***A computational analysis of the constraints on parallel word identification*** (Erik D Reichle: Macquarie University; Elizabeth R Schotter: University of South Florida)

2255 ***Corrective processes in modeling reference resolution*** (Constantine Nakos: Northwestern University; Irina Rabkina: Northwestern University; Samuel Hill: Northwestern University; Ken Forbus: Northwestern University)



CogSci 2020 Searchable Program

14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Track#8

Neural Networks

1162 ***Context variability promotes generalization in reading aloud: Insight from a neural network simulation*** (Ian Dennis Miller: University of Toronto; Nicolas Dumay: University of Exeter; Mark Pitt: Ohio State University; Brian Lam: University of Toronto; Blair Armstrong: University of Toronto)

2216 ***Neural language models capture some, but not all agreement attraction effects*** (Suhas Arehalli: Johns Hopkins University; Tal Linzen: Johns Hopkins University)

1266 ***Probing neural language models for human tacit assumptions*** (Nathaniel Weir: Johns Hopkins University; Adam Poliak: Johns Hopkins University; Benjamin Van Durme: Johns Hopkins University)

Track #9

9:20 – 11:00

6:20 – 8:00

14:40 – 16:00

Track#9

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; Fernand Gobet: London School of Economics; Peter Lane: University of Hertfordshire)

1170 ***Using emails to quantify the impact of prior exposure on word recognition memory*** (Hyungwook Yim: The University of Melbourne; Courtney Rose O'Brien: The University of Melbourne; Benjamin Stone: The University of Melbourne; Adam Osth: The University of Melbourne; Simon Dennis: The University of Melbourne)



CogSci 2020 Searchable Program

14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Track#9

2184 ***Proceduralization and working memory in association learning*** (Philip Newlin: Mississippi State University; Jarrod Moss: Mississippi State University)

2180 ***Understanding memory for WHERE using smartphone data*** (Elizabeth Laliberte: The University of Melbourne; Benjamin Stone: The University of Melbourne; Hyungwook Yim: The University of Melbourne; Simon Dennis: The University of Melbourne)

1774 ***Prefrontal-striatal circuitry supports adaptive memory prioritization across development*** (Kate Nussenbaum: New York University; Catherine Hartley: 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; Elizabeth Spelke: Harvard University)

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

2320 ***A rational model of sequential self-assessment*** (Rachel Jansen: University of California, Berkeley; Anna Rafferty: Carleton College; Tom Griffiths: Princeton University)

1272 ***Illusory causal connections and their effect on subjective probability*** (Sami R Yousif: Yale University; Frank Keil: Yale University)

1980 ***Intentionality effects on event boundaries*** (Ariel Mathis: University of Pennsylvania; Anna Papafragou: University of Pennsylvania)



CogSci 2020 Searchable Program

Track #10

9:20 – 11:00

6:20 – 8:00

14:40 – 16:00

Track#10

Gender and Individuals

2391 ***Paradoxical gender gaps in mathematics achievement: Pressure as a key*** (Emily McLaughlin Lyons: TERC; Almaz Mesghina: University of Chicago; Lindsey Engle Richland: University of California, Irvine)

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

1043 ***Embodiment and gender interact in alignment to TTS voices*** (Michelle Cohn: University of California, Davis; Patrik Jonell: KTH; Taylor Kim: University of California, Davis; Jonas Beskow: KTH; Georgia Zellou: University of California, Davis)

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

14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Track#10

Emotions and Beliefs

2217 ***The emotion-induced belief-amplification effect*** (Madalina Vlasceanu: Princeton University; Jacob Goebel: Princeton University; Alin Coman: Princeton University)

1930 ***How do emotions change during learning with an intelligent tutoring system? Metacognitive monitoring and performance with MetaTutor*** (Elizabeth B Cloude: University of Central Florida; Franz Wortha: University of



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Tübingen; Daryn A Dever: University of Central Florida; Roger Azevedo: University of Central Florida)

1449 ***Emotional words – The relationship of self- and other-annotation of affect in written text*** (Nadine Braun: Tilburg University; Martijn Goudbeek: Tilburg University; Emiel Krahmer: Tilburg University)

1932 ***Inconsistencies among beliefs as a basis for learning via thought experiments*** (Igor Bascandzhev: Rutgers University)

2214 ***Crowdsourcing to analyze belief systems underlying social issues*** (John Hunter Priniski: University of California, Los Angeles; Keith Holyoak: University of California, Los Angeles)



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TIME ZONES				DAY 2: JULY 31, 2020	
TORONTO	LA	LONDON			
Track #1 9:00 – 10:40				Poster Hall and Exhibit Hall On-Demand	
				Business Meeting On-Demand	
	6:00 – 7:40	14:00 – 15:40	Track#1	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	



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10:40– 11:00	7:40 – 8:00	15:40 – 16:00	Track#1	BREAK / SOCIAL TIME
11:00 – 12:40	8:00 – 9:40	16:00 – 17:40	Track#1	Poster Session #2
12:40 – 13:00	9:40 – 10:00	17:40 – 18:00	Track#1	BREAK / SOCIAL TIME
13:00 – 14:00	10:00 – 11:00	18:00 – 19:00	Track#1	Plenary Speaker: Geoffrey Hinton, University of Toronto Moderator: James L. McClelland, Stanford University <i>Unsupervised Learning</i> Live Q&A Period
14:00 – 14:20	11:00 – 11:20	19:00 – 19:20	Track#1	BREAK / SOCIAL TIME
14:20 – 15:20	11:20 – 12:20	19:20 – 20:20	Track#1	Rumelhart Prize Talk: Stanislas Dehaene, College de France <i>Probing the singularity of the human brain from numbers to symbols and mathematics</i>
15:20 – 16:00	12:20 – 13:00	20:20 – 21:00	Track #1	Rumelhart Reception Announcement of the 21st Winner



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Track #2

9:00 – 10:40

6:00 – 7:40

14:00 – 15:40

Track#2

New measures for the fundamentals of human performance

Symposium Co-Chairs: Wayne D. Gray, Rensselaer Polytechnic Institute; Ray Perez, Office of Naval Research

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. Chris Sims pushes forward in the assessment of computational rationality by individuals. Rahman and Gray shine their Spotlight on the dips and leaps of performance during skill acquisition. Elizabeth Torres examines stochastic shifts in learning across the lifespan. We maintain that these lines of research show common ground and we have challenged each of our panelists to look for and highlight that common ground in their presentation.

S1250-Q **Live Q&A Period**

Track #3

9:00 – 10:40

6:00 – 7:40

14:00 – 15:40

Track#3

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



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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 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 #4

9:00 – 10:40

6:00 – 7:40

14:00 – 15:40

Track#4

Complex Dynamics

2033 ***Concealable stigmatized identity disclosure as a possible perturbation to complex social systems*** (Hannah Douglas: Macquarie University; Sarah Toohey: Macquarie University; Michael J Richardson: Macquarie University; Rachel W. Kallen: Macquarie University)

1478 ***Quantifying emergent, dynamic tonal coordination in collaborative musical improvisation*** (Matthew Setzler: Indiana University; Robert Goldstone: Indiana University)

1690 ***Mental state inference from indirect evidence through Bayesian event reconstruction*** (Michael Lopez-Brau: Yale University; Joseph Kwon: Yale University; Julian Jara-Ettinger: Yale University)

2460 ***Formalizing interdisciplinary collaboration in the Cogsci community*** (Lauren A Oey: University of California San Diego; Isabella Destefano: University of San Diego ; Erik Brockbank: University of California San Diego; Ed Vul: University of California San Diego)

2015 ***Loss functions modulate the optimal bias-variance trade-off*** (Adam Bear: Harvard University; Fiery Cushman: Harvard University)

Track #5

9:00 – 10:40

6:00 – 7:40

14:00 – 15:40

Track#5

Learning and Development

1358 ***Awe yields learning: A virtual reality study*** (Hedwig Anna Theresia van



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Track #6

9:00 – 10:40

6:00 – 7:40

14:00 – 15:40

Track#6

Limpt - Broers: Tilburg University; Max M. Louwerse: Tilburg University; Marie Postma: Tilburg University)

1519 *Hearing water temperature: Characterizing the development of nuanced perception of auditory events* (Tanushree Agrawal: University of California San Diego; Michelle Lee: University of California San Diego; Amanda Teresa Calcetas: University of California San Diego; Danielle Clarke: University of California San Diego; Naomi Lin: University of California San Diego; Adena Schachner: University of California San Diego)

1683 *Specificity of infant statistical learning* (Sara Parvanezadeh Esfahani: University of Tennessee; Jessica Fleming Hay: University of Tennessee)

2357 *Children hear more about what is atypical than what is typical* (Claire Augusta Bergey: The University of Chicago; Benjamin C Morris: University of Chicago; Dan Yurovsky: Carnegie Mellon University)

1301 *For 19-month-olds, what happens on the screen stays on the screen* (Barbu Revencu: Central European University; Gergely Csibra: Central European University)

Numerosity

1405 *Dynamics vs. development in numerosity estimation: a computational model accurately predicts a developmental reversal* (Dan Kim: The Ohio State University; John Opfer: 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; David Barner: University of California San Diego)



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Track #7

9:00 – 10:40

6:00 – 7:40

14:00 – 15:40

Track#7

2131 ***How reliable is the give-a-number task?*** (Elisabeth Marchand: University of California San Diego; David Barner: University of California San Diego)

2256 ***Starting small: Exploring the origins of successor function knowledge*** (Rose M. Schneider: University of California San Diego; Ashlie H Pankonin: San Diego State University; Adena Schachner: University of California San Diego; David Barner: University of California San Diego)

2383 ***Does the number sense represent number?*** (Sam Pablo Clarke: York University; Jacob Beck: York University)

Language and Meaning

2485 ***Informational goals, sentence structure, and comparison class inference*** (Michael Henry Tessler: Massachusetts Institute of Technology; Polina Tsvilodub: Osnabrück University; Jesse Snedeker: Harvard University; Roger Levy: Massachusetts Institute of Technology)

1456 ***Do taxonomic and associative relations affect word production in the same way?*** (Delaney McDonagh: Carnegie Mellon University; Anna Fisher: Carnegie Mellon University; Nazbanou Nozari: Carnegie Mellon University)

2011 ***Metaphors: Where the neighborhood in which one resides interacts with (interpretive) diversity*** (J. Nick Reid: Western University; Hamad Al-Azary: University of Alberta; Albert N. Katz: Western University)

1332 ***Reconstructing maps from text*** (Johnathan E Avery: Indiana University; Robert Goldstone: Indiana University; Michael N. Jones: Indiana University)



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Track #8

9:00 – 10:40

6:00 – 7:40

14:00 – 15:40

Track#8

1182 *Does language model surprisal measure code comprehension?*

(Casey Casalnuovo: University of California, Davis; Premkumar Thomas Devanbu: University of California, Davis; Emily Morgan: University of California, Davis)

Speech and Phonetics

1157 *Evaluating computational models of infant phonetic learning across languages*

(Yevgen Matushevych: University of Edinburgh; Thomas Schatz: University of Maryland; Herman Kamper: Stellenbosch University; Naomi H Feldman: University of Maryland; Sharon Goldwater: University of Edinburgh)

1955 *Input matters in the modeling of early phonetic learning*

(Ruolan Li: University of Maryland; Thomas Schatz: University of Maryland; Yevgen Matushevych: University of Edinburgh ; Sharon Goldwater: University of Edinburgh; Naomi H Feldman: 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; Fabian Tomaschek: Quantitative Linguistics, University of Tübingen)

2341 *The perceptimatic english benchmark for speech perception models*

(Juliette Millet: Université de Paris, CNRS; Ewan Dunbar: Université de Paris, CNRS)

2464 *A model of prenatal acquisition of vowels*

(Katerina Chladkova: Institute of Psychology, Czech Academy of Sciences; Natalia Nudga: Charles University; Paul Boersma: University of Amsterdam)



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Track #9

9:00 – 10:40

6:00 – 7:40

14:00 – 15:40

Track#9

Spatial Cognition

1175 ***The semantics of spatial demonstratives*** (Mikkel Wallentin: Aarhus University; Roberta Rocca: Aarhus University)

1711 ***A cross-cultural principle of temporal spatialization*** (Carmen Callizo: University of Granada; Slavica Tutnjević: University of Banja-Luka; Maja Pandza: University of Mostar; Marc Ouellet: University of Granada; Alexander Kranjec: Duquesne University; Sladjana Ilić: University of Tuzla; Yan Gu: UCL; Tilbe Göksun: Koç University; Sobh Chahboun: Queen Maud University College; Daniel Casasanto: Cornell University; Julio Santiago: University of Granada)

2084 ***Data foraging: Spatiotemporal data collection decisions in disciplinary field science*** (Cristina Wilson: Temple University; Feifei Qian: University of Pennsylvania; Doug Jerolmack: University of Pennsylvania; Thomas Shipley: Temple University; Sonia Roberts: University of Pennsylvania; Jonathan Ham: Temple University; Daniel Koditschek: University of Pennsylvania)

2370 ***Multi-directional mappings in the minds of the Tsimane': Size, time, and number on three spatial axes*** (Benjamin Pitt: University of California, Berkeley; Daniel Casasanto: Cornell University; Stephen Ferrigno: Harvard University; Edward Gibson: Massachusetts Institute of Technology; Steven Piantadosi: University of California, Berkeley)

2182 ***Grounding spatial language in perception by combining concepts in a neural dynamic architecture*** (Daniel Sabinasz: Institut für Neuroinformatik; Mathis Richter: Ruhr-Universität Bochum; Jonas Lins: Ruhr-Universität Bochum; Gregor Schöner: Ruhr-Universität Bochum)



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Track #10

9:00 – 10:40

6:00 – 7:40

14:00 – 15:40

Track#10

Categorization

1012 **Identifying the neural dynamics of category decisions with computational model-based fMRI** (Juliana D. Adema: University of Toronto; Emily M Heffernan: University of Toronto; Michael L. Mack: University of Toronto)

2362 **End-to-end Deep Prototype and Exemplar Models for Predicting Human Behavior** (Pulkit Singh: Princeton University; Joshua Peterson: Princeton University; Ruairidh McLennan Battleday: Princeton University; Tom Griffiths: Princeton University)

1181 **Contrasting exemplar and prototype models in a natural-science category domain** (Robert Nosofsky: Indiana University; Brian J Meagher: Indiana University; Parhesh Kumar: Indiana University)

2431 **The evolution of category systems within and between learners** (Vanessa Ferdinand: University of Melbourne; Amy Perfors: University of Melbourne)

1337 **The effects of feature verbalizability on category learning** (Bailey Brashears: The University of Western Ontario; John Paul Minda: 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	Track#1	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	Track#1	Poster Session #3
12:40 – 13:40	9:40 – 10:40	17:40 – 18:40	Track#1	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	Track#1	BREAK / SOCIAL TIME
14:00 – 15:40	11:00 – 12:40	19:00 – 20:40	Track#1	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, Massachusetts Institute of Technology) 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)



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15:40 – 16:00

Track #2

9:00 – 10:40

12:40 – 13:00	20:40 – 21:00	Track#1
6:00 – 7:40	14:40 – 16:00	Track#2

IP3-Q Live Q&A Period

Closing Ceremony

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

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

Presenters: Katharine A Tillman, University of Texas at Austin; Benjamin Pitt, University of California, Berkeley; Andrea Bender, University of Bergen; Ariel Starr, University of Washington; Thanujeni Pathman, York University

Additional Authors: Tom Gijssels, Roberto Bottini, Ceren Battal, Olivier Collignon, Daniel Casasanto, Annelie Rothe-Wulf, Mahesh Srinivasan, Lina Dekker, Tida Kian, Puneet Parmar & Giulia Fabiano, Cole Dougherty, James Daly, Caren M. Walker

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



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Track#2

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

Where is cognitive science now?

Symposium Chair: Carson G Miller Rigoli, University of California San Diego

Presenters: Rafael Nunez, University of California San Diego; Carson Miller Rigoli, University of California 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



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9:00 – 10:40

6:00 – 7:40

14:40 – 16:00

Track#3

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 Martens, North Carolina State University; Rogelio E. Cardona-Rivera, University of Utah;

Additional Authors: Andrew Hendrickson, Tilburg 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 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



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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; Stephen Clark: DeepMind; Phil Blunsom: DeepMind; Karl Moritz Hermann: DeepMind)

1979 ***Social foraging in groups of search agents with human intervention*** (Daniel S. Schloesser: University of California, Merced; Derek Hollenbeck: University of California, Merced; Christopher Kello: University of California, Merced)

2013 ***Too many cooks: Coordinating multi-agent collaboration through inverse planning*** (Sarah A. Wu: Massachusetts Institute of Technology; Rose E Wang: MIT; James Evans: University of Chicago; Josh Tenenbaum: Massachusetts Institute of Technology; David Parkes: Harvard University; Max Kleiman-Weiner: Massachusetts Institute of Technology)

2435 ***Learning in social environments with curious neural agents*** (Megumi Sano: Stanford University; Julian De Freitas: Harvard University; Nick Haber: Stanford; Daniel L. K. Yamins: Stanford)



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Track #4

9:00 – 10:40

6:00 – 7:40

14:40 – 16:00

Track#4

1740 ***How do disparities reproduce themselves? "Ground truth" inference from utility-maximizing agent's sampling behavior***
(Yuan Meng: University of California, Berkeley; Fei Xu: University of California, Berkeley)

Reading and Processing

1288 ***Online article comprehension in monolingual spanish-speaking preschoolers with specific language impairment: a language-mediated visual attention study*** (Andrea Helo: Universidad de Chile; Carmen Julia Coloma: Universidad de Chile; Zulema De Barbieri: Universidad Santo Tomás; 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; Alex Sciuto: University of South Florida; Martín Antúnez: University of La Laguna; Elizabeth R Schotter: 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; Mateo Obregón: The University of Edinburgh; Hamutal Kreiner: Ruppiner Academic Center; Richard Shillcock: The University of Edinburgh)

1564 ***Task effects on the lexical boost effect in structural priming***
(Roger P.G. van Gompel: University of Dundee; Laura Wakeford: University of Abertay; Leila Kantola: Umeå University)



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14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Track#4

1155 ***Is segmental interference position-dependent?*** (William Harrison: Carnegie Mellon University; Christopher Richardson Hepner: Carnegie Mellon University; Nazbanou Nozari: Carnegie Mellon University)

Social Learning

1993 ***A Bayesian model of social influence under risk and uncertainty*** (Simon Ciranka: Max Planck Institute for Human Development; Wouter van den Bos: University of Amsterdam)

2268 ***How much to copy from others? The role of partial copying in social learning*** (Chelsea Campbell: Indiana University; Eduardo Izquierdo: Indiana University; Robert Goldstone: Indiana University)

2407 ***Hatred is in the eye of the annotator: Hate speech classifiers learn human-like social stereotypes*** (Aida Mostafazadeh Davani: University of Southern California; Mohammad Atari: University of Southern California; Brendan Kennedy: University of Southern California; Shreya Havaldar: University of Southern California; Morteza Dehghani: University of Southern California)

1990 ***Relative deprivation and social identity in laboratory based riots: A model*** (James Allen: University College London; Guillaume Dezechache: Universite Clermont Auvergne, CNRS, LAPSCO; Daniel C Richardson: Department of Experimental Psychology)

2343 ***Givenness hierarchy theoretic cognitive status filtering*** (Poulomi Pal: Colorado School of Mines; Akshay Swaminathan: Colorado School of Mines; Lixiao Zhu: Colorado School of Mines;



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Track #5

9:00 – 10:40

6:00 – 7:40

14:40 – 16:00

Track#5

Andrea Golden-Lasher: Colorado School of Mines; Tom Williams: Colorado School of Mines)

Language and Uncertainty

1242 ***When generic language does not promote psychological essentialism*** (Nadya Vasilyeva: Princeton University; Alison Gopnik: University of California, Berkeley; Tania Lombrozo: Princeton University)

1793 ***Measuring prosodic predictability in children's home language environments*** (Kyle MacDonald: McD Tech Labs; Marisa Casillas: Max Planck Institute for Psycholinguistics; Okko Räsänen: Aalto University; Anne Warlaumont: University of California, Los Angeles)

1739 ***Forward-looking effects in subject pronoun interpretation: What comes next matters*** (Jina Song: University of Southern California; Elsi Kaiser: University of Southern California)

2163 ***Learner dynamics in a model of wug inflection: integrating frequency and phonology*** (Stella Frank: University of Edinburgh; Kenny Smith: University of Edinburgh; Christine Cuskley: Newcastle University)

1410 ***Learning under uncertainty changes during adolescence*** (Liyu Xia: University of California, Berkeley; Sarah L Master: Max Planck Institute for Biological Cybernetics; Maria K Eckstein: University of California, Berkeley; Linda Wilbrecht: University of California, Berkeley; Anne GE Collins: University of California, Berkeley)



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14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Track#5

Forms of Learning

2083 ***Relation learning in a neurocomputational architecture supports cross-domain transfer*** (Leonidas A. A. Doumas: University of Edinburgh; Guillermo Puebla: University of Edinburgh; Andrea E Martin: Max Planck Institute for Psycholinguistics ; John E. Hummel: University of Illinois)

1394 ***Unconscious learning of automatic inhibition is reflected in frontal theta and sensorimotor oscillations*** (Silvia Isabella: University of Toronto; J. Allan Cheyne: University of Waterloo; Douglas Cheyne: University of Toronto)

1103 ***Metacognition and motivation: The role of time-awareness in preparation for future Learning*** (Mark Abdelshiheed: North Carolina State University; Min Chi: 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; Davide De Tommaso: Istituto Italiano di Tecnologia; Cesco Willemse: Istituto Italiano di Tecnologia (IIT); Serena Marchesi: Istituto Italiano di Tecnologia; Agnieszka Wykowska: Istituto Italiano di Tecnologia)

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



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Track #6

9:00 – 10:40

6:00 – 7:40

14:40 – 16:00

Track#6

Linguistics

2289 ***Linguistic overhypotheses in category learning: Explaining the label advantage effect*** (Anna Ivanova: Massachusetts Institute of Technology; Matthias Hofer: Massachusetts Institute of Technology)

20min Break

1597 ***Prototype theory and emotion semantic change*** (Aotao Xu: University of Toronto; Jennifer E Stellar: University of Toronto; Yang Xu: University of Toronto)

2430 ***Universal linguistic inductive biases via meta-learning*** (Richard Thomas McCoy: Johns Hopkins University; Erin Grant: University of California, Berkeley; Paul Smolensky: Microsoft; Tom Griffiths: Princeton University; Tal Linzen: Johns Hopkins University)

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

14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Track#6

Reasoning

1712 ***Morality justifies motivated reasoning*** (Corey Cusimano: Princeton University; Tania Lombrozo: Princeton University)



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Track #7

9:00 – 10:40

6:00 – 7:40

14:40 – 16:00

Track#7

2045 ***Improving cognitive models for syllogistic reasoning*** (Jonas Bischofberger: University of Freiburg; Marco Ragni: University of Freiburg)

1051 ***Incremental hypothesis revision in causal reasoning across development*** (Rebekah Gelpi: University of Toronto; Ben Prystawski: University of Toronto; Christopher Lucas: University of Edinburgh; Daphna Buchsbaum: University of Toronto)

1900 ***A new approach to testimonial conditionals*** (Stephan Hartmann: Ludwig Maximilian University of Munich; Ulrike Hahn: Birkbeck, University of London)

1408 ***...that P is relevant for Q': Indicative conditionals and learning from testimony*** (Karolina Krzyzanowska: University of Amsterdam; Peter Collins: Goldsmiths, University of London; Ulrike Hahn: Birkbeck, University of London)

Comparative and Cultural Cognition

1870 ***Reverse engineering the origins of visual intelligence*** (Justin N Wood: Indiana University; Donsuk Lee: Indiana University; Brian W Wood: Indiana University; Samantha Marie Waters Wood: Indiana University)

1374 ***Rational after all: Changes in probability matching behaviour across time in humans and monkeys*** (Carmen Saldana: The University of Edinburgh; Nicolas Claidiere: Aix Marseille University; Joel Fagot: Aix Marseille University; Kenny Smith: University of Edinburgh)



CogSci 2020 Searchable Program

14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Track#7

2113 ***Repetition suppression in low- and high-order regions of the primate visual cortex*** (Nathaniel Williams: Carnegie Mellon University; Carl Olson: Carnegie Mellon University)

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; Kara Weisman: Stanford University; Tanya Luhrmann: Stanford University)

2145 ***Comparing adaptive and random spacing schedules during learning to mastery criteria*** (Everett Mettler: University of California, Los Angeles; Christine M. Massey: University of California, Los Angeles; Timothy Burke: University of California, Los Angeles; Philip J Kellman: University of California, Los Angeles)

Pragmatics

2025 ***Learning to refer informatively by amortizing pragmatic reasoning*** (Julia White: Stanford University; Jesse Mu: Stanford University; Noah Goodman: Stanford University)

1611 ***Are you thinking what I'm thinking? Perspective-taking in a language game*** (Johanne Nedergaard: Aarhus University; Kenny Smith: University of Edinburgh)

1011 ***Visual grouping and pragmatic constraints in the generation of quantified descriptions*** (Gordon Briggs: U.S. Naval Research Laboratory; Hillary Harner: US Naval Research Laboratory; Sangeet Khemlani: US Naval Research Laboratory)



CogSci 2020 Searchable Program

Track #8

9:00 – 10:40

6:00 – 7:40

14:40 – 16:00

Track#8

2028 ***Recursive adversarial reasoning in the rock, paper, scissors game*** (Erik Brockbank: University of California San Diego; Ed Vul: University of California San Diego)

1458 ***Parents scaffold the formation of conversational pacts with their children*** (Ashley C Leung: University of Chicago; Robert Hawkins: Princeton University; Dan Yurovsky: Carnegie Mellon University)

Concepts and Systems

1061 ***Prevalence-Induced Concept Change in Older Adults*** (Sean Devine: Concordia University; Cassandra Neumann: Concordia University; David E. Levari: Harvard; Robert Wilson: University of Arizona; Ben Eppinger: Concordia University)

2413 ***Nameability affects subjective and objective measures of visual similarity*** (Martin Zettersten: University of Wisconsin-Madison; Ellise Suffill: University of Wisconsin-Madison; Gary Lupyan: University of Wisconsin-Madison)

1956 ***Separability and the effect of valence. An empirical study of thick concepts*** (Pascale Willemsen: University of Zurich; Kevin Reuter: University of Zurich)

1941 ***Simple kinship systems are more learnable*** (Kenny Smith: University of Edinburgh; Stella Frank: University of Edinburgh; Sara Rolando: University of Edinburgh; Simon Kirby: The University of Edinburgh; Jia Loy: University of Edinburgh)



CogSci 2020 Searchable Program

14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Track#8

2102 ***The paradox of time in dynamic causal systems*** (Zach Davis: New York University; Neil R Bramley: University of Edinburgh; Bob Rehder: New York University)

Word Learning

1977 ***A computational model of early word learning from the infant's point of view*** (Satoshi Tsutsui: Indiana University ; Arjun Chandrasekaran: Max Planck Institute for Intelligent Systems; Alimoor Reza: Indiana University; David Crandall: Indiana University; Chen Yu: Indiana University, Bloomington)

2062 ***Decoding eye movements in cross-situational word learning via tensor component analysis*** (Andrei Amatuni: Indiana University; Chen Yu: Indiana University, Bloomington)

2056 ***Child-directed speech: The impact of variations in speaking rate on word learning*** (Jinyu Shi: University College London; Yan Gu: University College London; Beata Grzyb: University College London; Gabriella Vigliocco: University College London)

1287 ***Active word learning through self-supervision*** (Lieke Gelderloos: Tilburg University; Alireza Mahmoudi Kamelabad: University of Trento; Afra Alishahi: Tilburg University)

1731 ***Predicting age of acquisition in early word learning using recurrent neural networks*** (Eva Portelance: Stanford University; Judith Degen: Stanford University; Michael C. Frank: Stanford University)



CogSci 2020 Searchable Program

Track #9

9:00 – 10:40

6:00 – 7:40

14:40 – 16:00

Track#9

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; Robert Ross: Macquarie University; Ryan McKay: Royal Holloway, University of London)

2202 ***Population-level amplification of perceptual bias*** (Mathew Hardy: Princeton University; Bill Thompson: Princeton University; Peter Krafft: University of Oxford; Tom Griffiths: Princeton University)

1310 ***Object bias disrupts rule-based generalization in adults across domains*** (Evan Orticio: Swarthmore College; Stella Christie: Tsinghua University)

14:20 – 16:00

11:20 – 13:00

19:20 – 21:00

Track#9

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*** (Eivinas Butkus: Yale University; Mario



CogSci 2020 Searchable Program

Track #10

9:00 – 10:40

6:00 – 7:40

14:40 – 16:00

Track#10

Belledonne: Yale University; Brian Scholl: Yale University; Ilker Yildirim: Yale University)

2029 ***Foraging in the virtual himalayas: Intrinsic and extrinsic factors in search*** (Ketika Garg: University of California Merced; Christopher Kello: University of California Merced)

1612 ***The role of eye movement consistency in learning to recognise faces: Computational and experimental examinations*** (Janet Hsiao: University of Hong Kong; Jeehye An: University of Hong Kong; Antoni B. Chan: City University of Hong Kong)

2244 ***Face selectivity in social (but not perceptual) areas of the infant brain*** (Heather L Kosakowski: Massachusetts Institute of Technology; Michael Cohen: Amherst College/ Massachusetts Institute of Technology; Nancy Kanwisher: Massachusetts Institute of Technology; Rebecca Saxe: Massachusetts Institute of Technology)

2326 ***Leveraging computer vision face representation to understand human face representation*** (Chaitanya K Ryali: University of California San Diego; Xiaotian Wang: University of California San Diego; Angela Yu: University of California San Diego)

Social Inference

1954 ***Detecting social information in a dense database of infants' natural visual experience*** (Bria Long: Stanford University; George Kachergis: Stanford University; Ketan Agrawal: Stanford University; Michael C. Frank: Stanford University)



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2094 ***Children use inverse planning to detect social transmission in design of artifacts*** (Madison L Pesowski: University of California San Diego; Alyssa D Quay: University of California San Diego; Michelle Lee: University of California San Diego; Adena Schachner: University of California San Diego)

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

2378 ***Social offloading: Just working together is enough to remove semantic interference*** (Miles R A Tufft: Department of Experimental Psychology; Daniel C Richardson: Department of Experimental Psychology)

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



CogSci 2020 Searchable Program

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, Authors: Ben Prystawski: University of Toronto; Erin Grant: U.C. Berkeley; Aida Nematzadeh: DeepMind; Spike W. S. Lee: University of Toronto; Suzanne Stevenson: University of Toronto; Yang Xu: University of Toronto

P-1-2 *Self-other similarity modulates the socially-triggered context-based prediction error effect on memory*, Poster Presenter: Madalina Vlasceanu, Authors: Madalina Vlasceanu: Princeton University; Michael J Morais: Princeton University; Zidong Zhao: Princeton University; Aaron Bornstein: University of California Irvine; Diana Tamir: Princeton University; Kenneth Norman: Princeton University; Alin Coman: Princeton University

P-1-3 *A Meta-analytic review of verbal overshadowing effect on insight problem solving using bayes factors*, Poster Presenter: Sachiko Kiyokawa, Authors: Sachiko Kiyokawa: Nagoya University; Zoltan Dienes: University of Sussex

P-1-4 *Covert attention shift by Sequence-space synesthesia (SSS): A cognitive grammar approach*, Poster Presenter: Mohsen Dolatabadi, Authors: Mohsen Dolatabadi: Ferdowsi University Of Mashhad; Mehrdad Dowlatabadi: Sharif University Of Technology

P-1-5 *Effect of interpersonal distance on unintentional posture synchrony*, Poster Presenter: Kae Mukai, Authors: Kae Mukai: Graduate School of Arts and Sciences; Masahiro Okano: Ritsumeikan Global Innovation Research Organization; Azusa Yokoyama: Graduate School of Interdisciplinary Information Studies; Akito Miura: Faculty of Human Science; Kazutoshi Kudo: Graduate School of Arts and Sciences

P-1-6 *When and how do toddlers in rural Western Kenya understand the referential nature of pictures?*, Poster Presenter: Rebecca Zhu, Authors: Rebecca Zhu: University of California, Berkeley; Helen O Pitchik: University of California, Berkeley; Lia Fernald: University of California, Berkeley; Alison Gopnik: University of California, Berkeley

P-1-7 *Improving multi-agent cooperation using theory of mind*, Poster Presenter: Desmond Ong, Authors: Terence Xinping Lim: National University of Singapore; Sidney Tio: AI Singapore; Desmond Ong: National University of Singapore

P-1-8 *Restricted access to working memory does not prevent cumulative improvement in a cultural evolution task.*, Poster Presenter: Juliet Dunstone, Authors: Juliet Dunstone: University of Stirling; Mark Atkinson: University of Stirling; Christine A. Caldwell: University of Stirling

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, Authors: Elizabeth M Wakefield: Loyola University Chicago; Eliza L. Congdon: Williams College; Miriam A. Novack: Northwestern University; Lauren H. Howard: Franklin & Marshall College

P-1-10 *Beyond pattern completion with short-term plasticity*, Poster Presenter: Kevin Shabahang, Authors: Kevin Shabahang: University of Melbourne; Hyungwook Yim: The University of Melbourne; Simon Dennis: The University of Melbourne



CogSci 2020 Searchable Program

P-1-11 Does children's visual attention to objects influence their verb learning?, Poster Presenter: Jane B. Childers, Authors: Jane B. Childers: Trinity University; Bibiana Cutilletta: Trinity University; Katherine Capps: Trinity University; Sneh K Lalani: Trinity University; Priscilla Tovar-Perez: University of Wisconsin-Madison

P-1-12 Model gender influences emotion categorization, Poster Presenter: Rista C Plate, Authors: Rista C Plate: University of Pennsylvania; Kristina Woodard: University of Wisconsin-Madison; Seth D Pollak: University of Wisconsin

P-1-13 A large-scale analysis of attentional deployment across one hundred sessions of adaptive multitask training, Poster Presenter: Omar Claflin, Authors: Omar Claflin: Self Funded Research Institute

P-1-14 Children's age-related transition from associative learning processes to reasoning-based social learning strategies, Poster Presenter: Kirsten H Blakey, Authors: Kirsten H Blakey: University of Stirling; Eva Rafetseder: University of Stirling; Mark Atkinson: University of Stirling; Elizabeth Renner: University of Stirling; Christine A. Caldwell: University of Stirling

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, Authors: Alice Liefgreen: University College London; Sami R Yousif: Yale University; Frank Keil: Yale University; David Lagnado: University College London

P-1-16 An evidence accumulation model of motivational and developmental influences over sustained attention, Poster Presenter: Harrison Ritz, Authors: Harrison Ritz: Brown University; Joseph DeGutis: VA Boston Healthcare System; Michael J. Frank: Brown University; Michael Esterman: VA Boston Healthcare System; Amitai Shenhav: Brown University

P-1-17 Role of working memory in language activation during visual scene processing, Poster Presenter: Matias Fernandez-Duque, Authors: Sarah Chabal: Northwestern University; Matias Fernandez-Duque: Northwestern University; Sayuri Hayakawa: Northwestern University; Viorica Marian: Northwestern University

P-1-18 Limitations of statistical learning: The case of paradigmatic relations, Poster Presenter: Hyungwook Yim, Authors: Hyungwook Yim: The University of Melbourne; Olivera Savic: The Ohio State University; Jangjin Kim: The University of Iowa; Vladimir Sloutsky: The Ohio State University; Simon Dennis: The University of Melbourne

P-1-19 Pretend play and children's self-regulation and language skills: An interventional study, Poster Presenter: Tanya M Paes, Authors: Tanya M Paes: University of Cambridge; Michelle Ellefson: University of Cambridge

P-1-20 Gaze behavior in a review-a-definition task, Poster Presenter: Koki Saito, Authors: Koki Saito: Nihon Unisys, Ltd.; Shohei Hidaka: Japan Advanced Institute of Science and Technology

P-1-21 Testing the immediate effects of transcranial Direct Current Stimulation (tDCS) on face recognition skills., Poster Presenter: Ciro Civile, Authors: Ciro Civile: University of Exeter; R.P. McLaren: University of Exeter; Emika Waguri: University of Exeter; IPL McLaren: University of Exeter

P-1-22 Auditory, visual, and speech category learning in the same individuals, Poster Presenter: Casey L Roark, Authors: Casey L Roark: University of Pittsburgh; Bharath Chandrasekaran: University of Pittsburgh



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P-1-23 Partner-specific adaptation in disfluency processing, Poster Presenter: Si On Yoon, Authors: Si On Yoon: University of Iowa; Sarah Brown-Schmidt: Vanderbilt University

P-1-24 Inverse rendering best explains face perception under extreme illuminations, Poster Presenter: Bernhard Egger, Authors: Bernhard Egger: Massachusetts Institute of Technology; Max Siegel: Massachusetts Institute of Technology; Riya Arora: Computer Science and Artificial Intelligence Laboratory, Massachusetts Institute of Technology; Amir Arsalan Soltani: Massachusetts Institute of Technology; Ilker Yildirim: Yale University; Josh Tenenbaum: Massachusetts Institute of Technology

P-1-25 Great expectations: Evidence for graded prediction of grammatical gender, Poster Presenter: Katja I. Haeuser, Authors: Katja I. Haeuser: Saarland University; Jutta Kray: Saarland University; Arielle Borovsky: Purdue University

P-1-26 Some determinants of chunk size in sequential behavior: Individual differences in the transcription of alphanumeric strings, Poster Presenter: Peter Cheng, Authors: Peter Cheng: University of Sussex; Noorah Albehajjan: University of Sussex

P-1-27 The perception-action loop in a predictive agent, Poster Presenter: Murchana Baruah, Authors: Murchana Baruah: University of Memphis; Bonny Bannerjee: University of Memphis

P-1-28 Sleep-associated consolidation in app-based language learning, Poster Presenter: Emma James, Authors: Emma James: University of York; Yolanda G.S. Koutraki: Memrise; Hannah Tickle: Memrise

P-1-29 Experiential explanations in iterated learning, Poster Presenter: Sara Aronowitz, Authors: Sara Aronowitz: Princeton University; Casey Lewry: Princeton University; Tania Lombrozo: Princeton University

P-1-30 Game on: Mastery orientation through the lens of a challenging video game, Poster Presenter: Craig G Anderson, Authors: Craig G Anderson: University of California, Irvine

P-1-31 Personal identity and online communities, Poster Presenter: Selene Arfini, Authors: Selene Arfini: University of Pavia; Lorenzo Botta Parandera: University of Pavia; Camilla Gazzaniga: University of Pavia; Nicolò Maggioni: University of Pavia; Alessandro Tacchino: University of Pavia

P-1-32 The meaning-sound systematicity also found in the Korean language, Poster Presenter: Hana Jee, Authors: Hana Jee: The University of Edinburgh; Monica Tamariz: Harriot-Watt University; Richard Shillcock: The University of Edinburgh

P-1-33 Measuring neural correlates of infant statistical learning using functional near-infrared spectroscopy, Poster Presenter: Halie Olson, Authors: Halie Olson: Massachusetts Institute of Technology; Lindsey J Powell: Massachusetts Institute of Technology; Rebecca Saxe: Massachusetts Institute of Technology

P-1-34 The “fraction sense” emerges from a deep convolutional neural network, Poster Presenter: Yun-Shiuan Chuang, Authors: Yun-Shiuan Chuang: University of Wisconsin-Madison; Edward M. Hubbard: University of Wisconsin-Madison; Joseph Larry Austerweil: University of Wisconsin-Madison



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P-1-35 *Is there a spatial Dunning-Kruger effect? And how is it influenced by gender?*, Poster Presenter: Jose De Jesus Sotelo, Authors: Jose De Jesus Sotelo: Northwestern University

P-1-36 *Pictures facilitate recognition and retrieval speeds of associations between words in a second language and referents*, Poster Presenter: Toshimune Kambara, Authors: Toshimune Kambara: Hiroshima University; Xinyi Liu: Hiroshima University; Hiroki Horinouchi: Hiroshima University; Yutao Yang: Hiroshima University; Yan Yan: Hiroshima University; Misa Ando: Hiroshima University

P-1-37 *The effect of cheerleading chants on time estimation performance*, Poster Presenter: Yoshiko Yabe, Authors: Yoshiko Yabe: NTT Communication Science Laboratories; Ken Watanabe: NTT Communication Science Laboratories; Ko Yoshino: Nara Medical University; Makio Kashino: NTT Communication Science Laboratories

P-1-38 *Motion recognition with biologically plausible spiking neural networks*, Poster Presenter: Souichirou Harada, Authors: Souichirou Harada: Hiroshima University; Bisser Raychev: Hiroshima University; Toru Tamaki: Hiroshima University; Kazufumi Kaneda: Hiroshima University

P-1-39 *The emergence of action-grounded compositional Communication*, Poster Presenter: Krzysztof Głowka. Authors: Krzysztof Głowka: University of Warsaw; Michał Niklewski: University of Warsaw; Joanna Wiszowata: University of Warsaw; Tomasz Korbak: University of Warsaw; Joanna Rączaszek-Leonardi: University of Warsaw; Julian Zubek: University of Warsaw

P-1-40 *Can preschoolers use probability to infer others' desires?*, Poster Presenter: Tiffany Doan, Authors: Tiffany Doan: University of Waterloo; Ori Friedman: University of Waterloo; Stephanie Denison: University of Waterloo

P-1-41 *Lexical associations in a native and non-native language affect retrieval induced Forgetting*, Poster Presenter: Karina Tachihara, Authors: Madalina Vlasceanu: Princeton University; Karina Tachihara: Princeton University; Adele Goldberg: Princeton University; Alin Coman: Princeton University

P-1-42 *How children learn non-obvious conceptual information from caregivers in naturalistic settings*, Poster Presenter: Elizabeth Attisano, Authors: Elizabeth Attisano: University of Waterloo; Stephanie Denison: University of Waterloo ; Shaylene Nancekivell: University of North Carolina at Greensboro

P-1-43 *Reducing the perceived reliability of an external store reduces susceptibility to external store manipulation*, Poster Presenter: April Emily Pereira, Authors: April Emily Pereira: University of Waterloo; Megan O. Kelly: University of Waterloo; Evan Risko: University of Waterloo

P-1-44 *Ask or Tell: Balancing questions and instructions in intuitive teaching*, Poster Presenter: Pamela Joy Osborn Popp, Authors: Pamela Joy Osborn Popp: New York University; Todd M Gureckis: New York University

P-1-45 *Probability and processing speed of scalar inferences is context-dependent*, Poster Presenter: Leyla Kursat, Authors: Leyla Kursat: Stanford University; Judith Degen: Stanford University

P-1-46 *Effects of voiced initial consonants in Japanese sound-symbolic words: Experiment 3*, Poster Presenter: Eisuke Osawa, Authors: Eisuke Osawa: Hiroshima University; Akari Koda: Hiroshima University; Kyonosuke Handa: Hiroshima University; Shushi Namba: Hiroshima University; Xinyi Liu: Hiroshima University; Makoto Hirakawa: Hiroshima University; Toshimune Kambara: Hiroshima University



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- P-1-47 *Nonlinear probability weighting can reflect attentional biases in sequential Sampling***, Poster Presenter: Veronika Zilker, Authors: Veronika Zilker: Max Planck Institute for Human Development; Thorsten Pachur: Max Planck Institute for Human Development
- P-1-48 *Co-occurrences and temporal distribution of caregiver's indexical multimodal cues in real-world interactions***, Poster Presenter: Xuanyi Chen, Authors: Xuanyi Chen: Rice University; Beata Grzyb: University College London; Gabriella Vigliocco: University College London
- P-1-49 *A visual recall paradigm to assess implicit statistical learning***, Poster Presenter: Holly E Jenkins, Authors: Holly E Jenkins: Newcastle University; Ysanne de Graaf: Newcastle University; Faye Smith: Newcastle University; Nick Riches: Newcastle University; Christopher Petkov: Newcastle University; Benjamin Wilson: Emory University
- P-1-50 *A computational approach for predicting individuals' response patterns in human syllogistic reasoning***, Poster Presenter: Emmanuelle-Anna Dietz Saldanha, Authors: Emmanuelle-Anna Dietz Saldanha: TU Dresden; Robert Maximilian Schambach: TU Dresden
- P-1-51 *Better together: Exploration prior to instruction facilitates rule-learning and modifies attention to demonstration***, Poster Presenter: Mia Radovanovic, Authors: Mia Radovanovic: University of Toronto; Natalie Brezack: University of Chicago; Laura Shneidman: Universidad Nacional Autónoma de México; Amanda Woodward: University of Chicago
- P-1-52 *Belief revision in a micro-social network: Modeling sensitivity to statistical dependencies in social learning***, Poster Presenter: Mr Jan-Philipp Fränken, Authors: Jan-Philipp Fränken: University of Edinburgh; Nikolas C Theodoropoulos: University of Edinburgh; Adam Moore: University of Edinburgh; Neil R Bramley: University of Edinburgh
- P-1-53 *How do verbs change their meaning? Evidence for minimal subtraction***, Poster Presenter: Daniel C King, Authors: Daniel C King: Northwestern University; Dedre Gentner: Northwestern University
- P-1-54 *English speakers' (in)ability to explicitly recognize agent and patient categories***, Poster Presenter: Lilia Rissman, Authors: Lilia Rissman: University of Wisconsin-Madison; Gary Lupyan: University of Wisconsin-Madison
- P-1-55 *The method of loci is an optimal policy for memory search***, Poster Presenter: Qiong Zhang, Authors: Qiong Zhang: Princeton University; Kenneth Norman: Princeton University; Tom Griffiths: Princeton University
- P-1-56 *Implicit questions shape information preferences***, Poster Presenter: Sehrang Joo, Authors: Sehrang Joo: Yale University; Sami R Yousif: Yale University; Frank Keil: Yale University
- P-1-57 *Abstraction and cognitive flexibility in collective problem solving: The role of diversity***, Poster Presenter: Tatiana Goregliad Fjaellingsdal, Authors: Tatiana Goregliad Fjaellingsdal: University of Lübeck; Cordula Vesper: Aarhus University; Christoffer Lundbak Olesen: Aarhus University; Kristian Tylan: Aarhus University
- P-1-58 *Age Effects in the Acquisition of Phonological Variation***, Poster Presenter: Betsy Sneller, Authors: Betsy Sneller: Georgetown University; Elissa L Newport: Georgetown University



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P-1-59 *Impact of effort exertion on cognitive flexibility and stability*, Poster Presenter: Anna Mini Jos, Authors: Anna Mini Jos: McGill University; Myles LoParco: McGill University; A. Ross Otto: McGill University

P-1-60 *From integers to fractions: Developing a coherent understanding of proportional magnitude*, Poster Presenter: Shuyuan Yu, Authors: Shuyuan Yu: the Ohio State University; Dan Kim: The Ohio State University; Marta K Mielicki: Kent State University; Charles J Fitzsimmons: Kent State University; Clarissa A Thompson: Kent State University; John Opfer: The Ohio State University

P-1-61 *Feature selection in category learning*, Poster Presenter: Mengcun Gao, Authors: Mengcun Gao: The Ohio State University; Vladimir Sloutsky: The Ohio State University

P-1-62 *Preschoolers recognize that losses loom larger than gains.*, Poster Presenter: Shaylene Nancekivell, Authors: Shaylene Nancekivell: University of North Carolina at Greensboro; Stephanie Denison: University of Waterloo; Ori Friedman: University of Waterloo

P-1-63 *Do we need neural models to explain human judgments of acceptability?*, Poster Presenter: M Alex Kelly, Authors: Wang Jing: Beijing International Studies University; M Alex Kelly: Pennsylvania State University; David Reitter: Google Research

P-1-64 *People use inverse planning to rationally seek social information from objects*, Poster Presenter: Ethan Hurwitz, Authors: Ethan Hurwitz: University of California, San Diego; Adena Schachner: University of California San Diego

P-1-65 *Do expectations for causal patterns differ between domains? Studying physical, biological and psychological events across cultures*, Poster Presenter: Annelie Rothe-Wulf, Authors: Annelie Rothe-Wulf: University of Freiburg

P-1-66 *Good-enough production with repetition*, Poster Presenter: Mark Koranda, Authors: Mark Koranda: University Wisconsin-Madison; Maryellen MacDonald: University of Wisconsin-Madison

P-1-67 *A role for working memory in shaping the action policy for reinforcement learning*, Poster Presenter: Ham Huang, Authors: Ham Huang: University of California, Berkeley; Samuel D McDougale: University of California, Berkeley; Anne GE Collins: University of California, Berkeley

P-1-68 *The role of literary metaphors in aesthetic appreciation*, Poster Presenter: Francesca M M Citron, Authors: Francesca M M Citron: Lancaster University; Holly Clarke: Lancaster University; Qishan Liao: Lancaster University; Carina Rasse: University of Klagenfurt

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, Authors: Sabina Johanna Sloman: Carnegie Mellon University; Daniel Oppenheimer: Carnegie Mellon University

P-1-70 *Early environments and exploration in the preschool years*, Poster Presenter: Ilona Bass, Authors: Ilona Bass: Rutgers University - Newark; Aiyana Bedoya: Rutgers University - Newark; Elizabeth Bonawitz: Rutgers University - Newark

P-1-71 *Retreat from overgeneralization errors: Broad verb classes are harder to induce than narrow classes*, Poster Presenter: Hao Sun, Authors: Hao Sun: Astound.AI



P-1-82 Does time extend asymmetrically towards the past and the future? A cross-cultural study, Poster Presenter: Carmen Callizo-Romero, Authors: Carmen Callizo-Romero: University of Granada; Slavica Tutnjević: University of Banja-Luka; Maja Pandza: University of Mostar; Marc Ouellet: University of Granada; Alexander Kranjec: Duquesne University; Sladjana Ilić: University of Tuzla; Yan Gu: University College London; Tilbe Göksun: Koç University; Sobh Chahboun: Queen Maud University College; Daniel Casasanto: Cornell University; Julio Santiago: University of Granada



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- P-1-83 *Compositional neural machine translation by removing the lexicon from syntax***, Poster Presenter: Tristan Thrush, Authors: Tristan Thrush: Massachusetts Institute of Technology
- P-1-84 *Complexity/informativeness trade-off in the domain of indefinite pronouns***, Poster Presenter: Milica Denic, Authors: Milica Denic: University of Amsterdam; Shane Steinert-Threlkeld: University of Washington; Jakub Szymanik: University of Amsterdam
- P-1-85 *Feeling of competence affects children's curiosity and creativity***, Poster Presenter: Rongzhi Liu, Authors: Rongzhi Liu: University of California, Berkeley; Fei Xu: University of California, Berkeley
- P-1-86 *What i like is what i remember: memory modulation and preferential choice***, Poster Presenter: Ada Aka, Authors: Ada Aka: University of Pennsylvania; Sudeep Bhatia: University of Pennsylvania
- P-1-87 *A hierarchical model of metacognition***, Poster Presenter: Brendan Conway-Smith, Authors: Brendan Conway-Smith: Carleton University; Robert West: Carleton University
- P-1-88 *Measuring memory integration: A metric tapping memory representation rather than inference***, Poster Presenter: Wangjing Yu, Authors: Wangjing Yu: Columbia University; Margaret L Schlichting: University of Toronto; Katherine Duncan: University of Toronto
- P-1-89 *Scanpaths distinguish problem format in a math cognition task***, Poster Presenter: Samantha Stranc, Authors: Samantha Stranc: Carleton University; Shawn Tan: Carleton University; Kasia Muldner: Carleton University
- P-1-90 *Adaptive behavior in variable games requires theory of mind***, Poster Presenter: Wenhao Qi, Authors: Wenhao Qi: University of California San Diego; Ed Vul: University of California San Diego
- P-1-91 *A corpus and behavioral analysis of the quality of young children's STEM books***, Poster Presenter: Hilary Miller, Authors: Hilary Miller: Emory University; Lucy M Cronin-Golomb: Emory University; Patricia J. Bauer: Emory University
- 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, Authors: Yeuk Ching Lam: The Education University of Hong Kong; Esther Yuet Ying Lau: The Education University of Hong Kong; Janet Hsiao: University of Hong Kong; Cheng Li: The Education University of Hong Kong; Lydia Ting Sum Yee: The Education University of Hong Kong
- P-1-93 *Spontaneous and voluntary analogical retrieval during problem-solving and hypothesis generation***, Poster Presenter: Maximo Trench, Authors: Maximo Trench: University of Comahue; Leandro E. Rivas: IPEHCS, CONICET-UNCo; Melisa Diaz: CONICET-UNCo; Ricardo A. Minervino: University of Comahue
- P-1-94 *"We need to start thinking ahead": The impact of social context on linguistic norm adherence***, Poster Presenter: Tom Williams, Authors: Jane Lockshin: Colorado School of Mines; Tom Williams: Colorado School of Mines
- P-1-95 *Sixteen-month-olds comprehend unanchored absent reference***, Poster Presenter: Elena Luchkina, Authors: Elena Luchkina: Northwestern University; Fei Xu: University of California, Berkeley; David M. Sobel: Brown University; James Morgan: Brown University



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P-1-96 Reasoning about hidden Features: Individual differences and age-related change, Poster Presenter: Robert Ralston, Authors: Robert Ralston: The Ohio State University; Vladimir Sloutsky: The Ohio State University

P-1-97 Implicit learning of purely non-linguistic sequences: the role of Broca's area, Poster Presenter: Chung-Lin Martin Yang, Authors: Chung-Lin Martin Yang: University of Rochester; P. Thomas Schoenemann: Indiana University; Lana M Ruck: Indiana University; Shelby S. J. Putt: Illinois State University; Lauren Weed: Indiana University

P-1-98 Reducing the illusion of explanatory depth: A new approach to boosting intervention, Poster Presenter: Shuma Iwatani, Authors: Shuma Iwatani: The University of Tokyo; Hidehito Honda: Yasuda Women's University; Yurina Otaki: Hitotsubashi University; Kazuhiro Ueda: The University of Tokyo

P-1-99 You should really think this through: Cross-domain variation in preferences for intuition and deliberation, Poster Presenter: Kerem Oktar, Authors: Kerem Oktar: Princeton University; Tania Lombrozo: Princeton University

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, Authors: Ricky Van-yip Tso: The Education University of Hong Kong; Matt Wing-hang To: The Education University of Hong Kong

P-1-101 How many instances come to mind when making probability estimates?, Poster Presenter: Joakim Sundh, Authors: Joakim Sundh: University of Warwick; Jian-Qiao Zhu: University of Warwick; Nicholas Chater: University of Warwick; Adam Sanborn: University of Warwick

P-1-102 Grid-navigation tasks involve skill learning, Poster Presenter: Krishn Bera, Authors: Krishn Bera: IIIT-Hyderabad; Anuj Shukla: International Institute of Information Technology; Raju Surampudi Bapi: IIIT Hyderabad

P-1-103 Evidence of self – Referential prioritization on the basis of visual features: Attributing salience to rule - Learning, Poster Presenter: Neelabja Roy, Authors: Neelabja Roy: Indian Institute of Technology Kanpur; Harish C Karnick: IIT Kanpur; Ark Verma: IIT Kanpur

P-1-104 How people examine self/other's learning history, Poster Presenter: Jun Ishihara, Authors: Jun Ishihara: Nagoya University; Sachiko Kiyokawa: Nagoya University

P-1-105 Explainable artificial intelligence in the prediction of personality traits from the use of smartphone, Poster Presenter: Luís Macedo, Authors: Luis Duarte: University of Coimbra; Rafael Henriques: University of Coimbra; Luís Macedo: University of Coimbra

P-1-106 A computational model of learning to count in a multimodal, interactive environment, Poster Presenter: Silvester Sabathiel, Authors: Silvester Sabathiel: NTNU Trondheim; Jay McClelland: Stanford University; Trygve Solstad: Norwegian University of Science and Technology

P-1-107 The cognition of categorisation: nominal classification systems, Poster Presenter: Alexandra Grandison, Authors: Alexandra Grandison: University of Surrey; Michael Franjeh: University of Surrey; Greville G. Corbett: University of Surrey

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, Authors: Lizette Y Pizza Becerra: Boston University; Manuela Benitez de la Cruz: University of Surrey; Deborah Kelemen: Boston University



CogSci 2020 Searchable Program

P-1-109 Unpacking cognitive processes in additive and non-additive multiple-cue tasks, Poster Presenter: August Collsiöö, Authors: August Collsiöö: Uppsala University; Peter Juslin: Uppsala University; Ebba Elwin: Uppsala University; Anders Winman: Uppsala University

P-1-110 An empirical investigation of adaptive search in problem solving, Poster Presenter: oana vuculescu, Authors: Oana Vuculescu: Aarhus University; Niklas Stausberg: Aarhus University; Rinat A Sergeev: Laboratory for Innovation Science at Harvard; Haylee Ham: Laboratory for Innovation Science at Harvard

P-1-111 Computational mechanisms for resolving misunderstandings, Poster Presenter: Laura D. van de Braak, Authors: Laura D. van de Braak: Radboud University, Donders Institute for Brain, Cognition, and Behaviour; Mark Blokpoel: Donders Institute for Brain, Cognition and Behaviour; Mark Dingemanse: Radboud University; Ivan Toni: Radboud University; Iris van Rooij: Radboud University

P-1-112 Goal-adaptiveness in children's cue-based information search, Poster Presenter: Andreas Domberg, Authors: Andreas Domberg: Max Planck Institute for Human Development; Karla Koskuba: University College London; Anselm Rothe: Max Planck Institute for Human Development; Azzurra Ruggeri: Max Planck Institute for Human Development

P-1-113 Automating validation of learning and decision making models using the CogniBench framework, Poster Presenter: Filip Melinscak, Authors: Filip Melinscak: University of Zurich; Eshref Yozdemir: University of Zurich; Dominik R. Bach: University College London

P-1-114 Perseverance in risky goal-pursuit, Poster Presenter: Charley Mingshuo Wu, Authors: Wojciech Zajkowski: Cardiff University; Charley Mingshuo Wu: Harvard University; Pantelis Analytis: University of Southern Denmark

P-1-115 Teasing apart encoding and retrieval interference in sentence comprehension: Evidence from agreement attraction, Poster Presenter: Dan Parker, Authors: Dan Parker: College of William & Mary; Kelly P Konrad Konrad: William & Mary

P-1-116 Modelling the effect of monetary incentives on recognition memory, Poster Presenter: Kevin da Silva-Castanheira, Authors: Kevin da Silva-Castanheira: McGill University; Azara Lalla: McGill University; A. Ross Otto: McGill University; Signy Sheldon: McGill University

P-1-117 Effects of causal determinism on causal learning Trajectories, Poster Presenter: Phuong (Phoebe) Ngoc Dinh, Authors: Phuong (Phoebe) Ngoc Dinh: Carnegie Mellon University; David Danks: Carnegie Mellon University

P-1-118 An algorithm for estimating average magnitudes, Poster Presenter: Jennifer Lee, Authors: Jennifer Lee: New York University; Wei Ji Ma: New York University

P-1-119 Imitation inhibition training enhances perspective taking in preschoolers, Poster Presenter: Dora Kamps, Authors: Dora Kamps: University of Copenhagen; Helle Duplessy: University of Copenhagen; Victoria Southgate: University of Copenhagen

P-1-120 The psychology of human entropy Intuitions, Poster Presenter: Lara Bertram, Authors: Lara Bertram: University of Surrey; Eric Schulz: Max Planck Institute for Biological Cybernetics; Matthias Hofer: Massachusetts Institute of Technology; Jonathan D. Nelson: University of Surrey



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- P-1-121 Hierarchical temporal organization of speech in children and adolescents who stutter**, Poster Presenter: Mona Franke, Authors: Mona Franke: Ludwig-Maximilian-University; Christopher Kello: University of California Merced; Simone Falk: Université de Montréal
- P-1-122 Passing the moral turing test**, Poster Presenter: Julia Haas, Authors: Julia Haas: Rhodes College
- P-1-123 Semantic chunks save working memory resources: computational and behavioral evidence**, Poster Presenter: Benjamin Kowialiewski, Authors: Benjamin Kowialiewski: Univ. Grenoble Alpes; Benoit Lemaire: Univ. Grenoble Alpes; Sophie Portrat: Univ. Grenoble Alpes
- P-1-124 Attentional allocation as optimal compression in visual search**, Poster Presenter: Christopher Bates, Authors: Christopher Bates: University of Rochester; Robert Jacobs: University of Rochester
- P-1-125 Perceived agency of a social norm violating robot**, Poster Presenter: Shannon C Yasuda, Authors: Shannon C Yasuda: Yale University; Devon Doheny: Yale University; Nicole Salomons: Yale University; Sarah Strohkorb Sebo: Yale University; Brian Scassellati: Yale University
- P-1-126 Preschoolers are sensitive to their performance over time**, Poster Presenter: Julia Anne Leonard, Authors: Julia Anne Leonard: University of Pennsylvania; Julia Sandler: University of Pennsylvania; Amanda Nerenberg: University of Pennsylvania; Aidan Rubio: University of Pennsylvania; Laura Schulz: Massachusetts Institute of Technology; Allyson Mackey: University of Pennsylvania
- P-1-127 Neonatal imitation of caregivers at home: A feasibility pilot**, Poster Presenter: Katherine E Casey, Authors: Katherine E Casey: American University; Kimberly Scott: Massachusetts Institute of Technology; Kira Ashton: American University; Jeff Gill: American University; Elizabeth A. Simpson: University of Miami; Laurie Bayet: American University
- P-1-128 Do infants think that agents choose what's best?**, Poster Presenter: Laura Schlingloff, Authors: Laura Schlingloff: Central European University; Denis Tatone: Central European University; Barbara Pomiechowska: Central European University; Gergely Csibra: Central European University
- P-1-129 WG-A: A framework for exploring analogical generalization and argumentation**, Poster Presenter: John Licato, Authors: Michael J Cooper: University of South Florida; Lindsay Fields: University of South Florida; Marc Badilla: University of South Florida; John Licato: University of South Florida
- P-1-130 Recognition memory influenced by grammar**, Poster Presenter: Steven Schwering, Authors: Steven Schwering: University of Wisconsin-Madison; Maryellen MacDonald: University of Wisconsin-Madison
- 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, Authors: Ryan E Peters: Indiana University; Chen Yu: Indiana University, Bloomington
- P-1-133 Classification of cognitive problem-solving strategies using MVPA on pre-solution EEG data**, Poster Presenter: Yongtaek Oh, Authors: Yongtaek Oh: Drexel University
- P-1-134 Modeling word interpretation with deep language models: The interaction between expectations and lexical information**, Poster Presenter: Laura Aina, Authors: Laura Aina: Universitat Pompeu Fabra; Thomas Brochhagen: Universitat Pompeu Fabra; Gemma Boleda: Universitat Pompeu Fabra



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P-1-135 Children affirm the possibility of improbable events when they are similar to a known event, Poster Presenter: Brandon W Goulding, Authors: Brandon W Goulding: University of Waterloo; Ori Friedman: University of Waterloo

P-1-136 Investigating the benefits of pre-questions on lecture-based learning, Poster Presenter: Quentin King-Shepard, Authors: Quentin King-Shepard: University of Pittsburgh ; Kelly Boden: University of Pittsburgh; Amy Adelman: University of Pittsburgh; Timothy Nokes-Malach: University of Pittsburgh; Shana Carpenter: Iowa State University

P-1-137 A computational approach to perception and language in autism based on self-organizing maps, Poster Presenter: Angel Eugenio Tovar, Authors: Angel Eugenio Tovar: Universidad Nacional Autónoma de México

P-1-138 Efficient navigation using a scalable, biologically inspired spatial representation, Poster Presenter: Brent Komer, Authors: Brent Komer: University of Waterloo; Chris Eliasmith: University of Waterloo

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, Authors: Katherine Hibbard: Columbia University; James E. Corter: Columbia University

P-1-140 Spatial alignment facilitates visual comparison in children, Poster Presenter: Yinyuan Zheng, Authors: Yinyuan Zheng: Northwestern University; Bryan Matlen: WestEd; Dedre Gentner: Northwestern University

P-1-141 The temporal structure of event knowledge in the mind in relation to autistic traits, Poster Presenter: Kara E Hannah, Authors: Kara E Hannah: University of Western Ontario; Kevin Brown: Oregon State University; Mikayla Hall-Bruce: University of Western Ontario; Ryan A Stevenson: University of Western Ontario; Ken McRae: University of Western Ontario

P-1-142 Do language effects on attention persist in complex task contexts?, Poster Presenter: Jessica Joseph, Authors: Jessica Joseph: Lehigh University; Barbara C. Malt: Lehigh University

P-1-143 Are polysemy effects modulated by sublexical, lexical, and semantic factors?, Poster Presenter: Di Mo, Authors: Di Mo: University of Toronto; Barend Beekhuizen: University of Toronto Mississauga; Suzanne Stevenson: University of Toronto; Blair Armstrong: University of Toronto

P-1-144 Joint acquisition of path and manner action description, Poster Presenter: Claire S Shah, Authors: Claire S Shah: Wright State University; Valerie L. Shalin: Wright State University

P-1-145 Untangling semantic similarity: modeling lexical processing experiments with distributional semantic models., Poster Presenter: Farhan Samir, Authors: Farhan Samir: University of Toronto; Suzanne Stevenson: University of Toronto; Barend Beekhuizen: University of Toronto, Mississauga

P-1-146 Characterizing the mechanisms of instructed reinforcement learning with fMRI pattern-similarity analysis, Poster Presenter: Euan Prentis, Authors: Euan Prentis: University of Pennsylvania; Nathan Tardiff: University of Pennsylvania; Sharon L. Thompson-Schill: University of Pennsylvania

P-1-147 Promoting pro-climate actions: a cognitive-constraints approach, Poster Presenter: Junho Lee, Authors: Junho Lee: University of California, Los Angeles; Emily Wong: University of California, Los Angeles; Patricia Cheng: University of California, Los Angeles



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P-1-148 *The attentional demands of learning by doing: A developmental study*, Poster Presenter: Karrie Godwin, Authors: Karrie Godwin: Kent State University; Paulo Carvalho: Carnegie Mellon University

P-1-149 *Interactions between categorization and intuitive physics*, Poster Presenter: Anantha Rao, Authors: Anantha N. Rao: University of Wisconsin-Madison; Joseph Larry Austerweil: University of Wisconsin-Madison

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: Yannick Lagarrigue, Authors: Yannick Lagarrigue: University of Bourgogne Franche-Comté; Jean-Pierre Thibaut: University of Bourgogne Franche-Comté

P-1-151 *The impact of mobile usage patterns on risk-taking behavior*, Poster Presenter: Michelle Chiu, Authors: Michelle Chiu: Temple University; Staci Meredith Weiss: Temple University; Erin Knotek: Temple University; Jason Chein: Temple University

P-1-152 *People view humans as existing for purposes and condemn those who fail to fulfill them*, Poster Presenter: Casey Lewry, Authors: Casey Lewry: Princeton University; Tania Lombrozo: Princeton University; Deborah Kelemen: Boston University

P-1-153 *Reasoning about equations with tape diagrams: Do differing visual features matter?*, Poster Presenter: Anna N. Bartel, Authors: Anna N. Bartel: University of Wisconsin-Madison; Elena Marie Silla: University of Wisconsin-Madison; Nicholas Vest: University of Wisconsin-Madison; Tomohiro Nagashima: Carnegie Mellon University; Vincent Alevan: Carnegie Mellon University; Martha W Alibali: University of Wisconsin-Madison

P-1-154 *Do you see what I see? Children's understanding of perception and physical interaction over video chat*, Poster Presenter: Elizabeth Bennette, Authors: Elizabeth Bennette: University of California San Diego; Alison Metzinger: University of California San Diego; Michelle Lee: University of California San Diego; Adena Schachner: University of California San Diego

P-1-155 *Understanding children's speech productions: Man versus machine*, Poster Presenter: Madeleine Yu, Authors: Madeleine Yu: University of Toronto; Amrita Bagga: University of Toronto; Elizabeth Johnson: University of Toronto

P-1-156 *From tangled object manifold to temporal relation manifolds*, Poster Presenter: James W Ryland, Authors: James W Ryland: University of Texas at Dallas

P-1-157 *The same or different? Capacity limitations in visual imagery versus visual memory of simple structured objects*, Poster Presenter: Christopher A Atkin, Authors: Christopher A Atkin: Nottingham Trent University

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, Authors: Evan M Doherty: Colorado College; Stephen Flusberg: Purchase College, SUNY; Kevin J. Holmes: Colorado College

P-1-159 *Adaptive vs. fixed spacing of learning items: Evidence from studies of learning and transfer in chemistry education*, Poster Presenter: Everett Mettler, Authors: Everett Mettler: University of California, Los Angeles; Amina K. El-Ashmawy: Collin College; Christine M. Massey: University of California, Los Angeles; Philip J Kellman: University of California, Los Angeles

P-1-160 *Principled connections guide semantic feature production*, Poster Presenter: Hillary Harner, Authors: Hillary Harner: US Naval Research Laboratory; Sangeet Khemlani: Naval Research Laboratory



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- P-1-161 *Integration of visual and spoken cues in a virtual reality navigation task***, Poster Presenter: Serena DeStefani, Authors: Serena DeStefani: Rutgers University; Jacob Feldman: Rutgers University; Karin Stromswold: Rutgers University
- P-1-162 *Vowel raising in Bengali inflectional morphology: Interactions of orthography and phonology***, Poster Presenter: Nadja Althaus, Authors: Nadja Althaus: University of East Anglia; Sandra Kotzor: University of Oxford; Aditi Lahiri: University of Oxford
- P-1-163 *A biologically plausible spiking neural model of eyeblink conditioning in the cerebellum***, Poster Presenter: Andreas Stöckel, Authors: Andreas Stöckel: University of Waterloo; Terrence C Stewart: University of Waterloo Collaboration Centre; Chris Eliasmith: University of Waterloo
- P-1-164 *Cardinal direction knowledge in 6-12-year-old children***, Poster Presenter: Yingying Yang, Authors: Yingying Yang: Montclair State University; Edward Merrill: University of Alabama
- P-1-165 *Redder reds, redder purples, but not redder blues: color gradability knowledge among blind and sighted adults***, Poster Presenter: Judy Kim, Authors: Marina Bedny: Johns Hopkins University; Judy Kim: Johns Hopkins University
- P-1-166 *Reliable idiographic parameters from noisy behavioral data: The case of individual differences in a reinforcement learning task***, Poster Presenter: Yinan Xu, Authors: Yinan Xu: University of Washington; Andrea Stocco: University of Washington
- P-1-167 *Student learning trajectories and knowledge transfer in early mathematical equivalence interventions***, Poster Presenter: Kristen Johannes, Authors: Kristen Johannes: WestEd; Jodi Davenport: WestEd
- P-1-168 *Can toddlers learn causal action sequences?***, Poster Presenter: Nishat Kazi, Authors: Emma C Tecwyn: Birmingham City University; Nafisa Mahbub: University of Toronto; Nishat Kazi: University of Toronto; Daphna Buchsbaum: University of Toronto
- P-1-169 *Schrödinger's category: Active learning in the face of label ambiguity***, Poster Presenter: John Patterson, Authors: John Patterson: Pennsylvania State University; Elisabeth A. Karuza: The Pennsylvania State University
- P-1-170 *Chaining and the process of scientific innovation***, Poster Presenter: Emmy Liu, Authors: Emmy Liu: University of Toronto; Yang Xu: University of Toronto
- P-1-171 *Neural correlates of hand representation in virtual flight simulation***, Poster Presenter: Polina Andrievskaia, Authors: Polina Andrievskaia: Carleton University; Kathleen Van Benthem: Carleton University; Chris M Herdman: Carleton University
- P-1-172 *Infants use imitation but not comforting or social synchrony to evaluate those in social interactions***, Poster Presenter: Ashley J Thomas, Authors: Ashley J Thomas: Massachusetts Institute of Technology; Rebecca Saxe: Massachusetts Institute of Technology; Elizabeth Spelke: Harvard University
- P-1-173 *Scaling uncertainty in visual perception and estimation tasks***, Poster Presenter: Eleanor Brower Schille-Hudson, Authors: Eleanor Brower Schille-Hudson: Indiana University; David Landy: Indiana University, Bloomington
- P-1-174 *Staying and returning dynamics of sustained attention in young children***, Poster Presenter: Jaeah Kim, Authors: Jaeah Kim: Carnegie Mellon University; Shashank Singh: Google; Erik Thiessen: Carnegie Mellon University; Anna Fisher: Carnegie Mellon University



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P-1-175 *Not all errors are the same: The role of cognitive effort in cross-situational word Learning*, Poster Presenter: Sydney G. Thib, Authors: Katherine D Snelling: Queen's University; Sydney Thib: Queen's University; Stanka A. Fitneva: Queen's University

P-1-176 *Does the effect of labels on sustained attention depend on target familiarity?*, Poster Presenter: Emily Keebler, Authors: Emily Keebler: Carnegie Mellon University; Catarina Vales: Carnegie Mellon University; Jaeah Kim: Carnegie Mellon University; Tishya Girdhar: Carnegie Mellon University; Anna Fisher: Carnegie Mellon University

P-1-177 *Prior beliefs about the evidentiary weight of crime scene data impacts juror verdicts*, Poster Presenter: Emily Line, Authors: Emily Line: Arizona State University; Sara Jaramillo: Arizona State University; Tess Neal: Arizona State University; Zachary Horne: Arizona State University

P-1-178 *Children's expectations of reciprocity in referential communication*, Poster Presenter: Myrto Grigoroglou, Authors: Myrto Grigoroglou: University of Toronto; Patricia Ganea: University of Toronto

P-1-180 *Using Experience Sampling to Investigate Affect at Encoding and Episodic Memory*, Poster Presenter: Adelaide MacKenzie, Authors: Adelaide MacKenzie: University of Melbourne; Hyungwook Yim: The University of Melbourne; Benjamin Stone: The University of Melbourne; Simon Dennis: The University of Melbourne

P-1-181 *Downloading culture.zip: Social learning by program induction*, Poster Presenter: Max Kleiman-Weiner, Authors: Max Kleiman-Weiner: Harvard University; Felix Anthony Sosa: Harvard University; Bill Thompson: University of California, Berkeley; Sebastiaan van Opheusden: New York University; Tom Griffiths: Princeton; Samuel Gershman: Harvard University; Fiery Cushman: Harvard University

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, Authors: Zara Harmon: University of Maryland; Vsevolod Kapatsinski: University of Oregon

P-1-183 *Intuitive theories of persuasion shape engagement in discussion of polarizing topics*, Poster Presenter: John Hunter Priniski, Authors: John Hunter Priniski: University of California, Los Angeles; Zachary Horne: Arizona State University

P-1-184 *Devaluation of unchosen options: A Bayesian account of the provenance and maintenance of overly optimistic expectations*, Poster Presenter: Corey Yishan Zhou, Authors: Corey Yishan Zhou: University of California San Diego; Dalin Guo: University of California San Diego; Angela Yu: University of California San Diego

P-1-185 *Do environmental resource distributions affect attentional styles?*, Poster Presenter: Gunes Sonmez, Authors: Gunes Sonmez: Indiana University; Calvin Isch: Indiana University

P-1-186 *Toddlers and preschoolers use relational concepts to solve problems*, Poster Presenter: Mariel Goddu, Authors: Mariel Goddu: University of California, Berkeley; Alison Gopnik: University of California, Berkeley



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P-1-187 Modeling the effect of driver's eye gaze pattern under workload: Gaussian mixture approach, Poster Presenter: Ron Hecht, Authors: Ron Hecht: General Motors; Ariel Telpaz: General Motors; Gila Kamhi: General Motors; Omer Tsimhoni: Herzelia; Aharon Bar Hillel: Ben Gurion University of the Negev; Naftali Tishby: Hebrew University of Jerusalem

P-1-188 On the psychology of resource Monitoring, Poster Presenter: Daniel Katz, Authors: Daniel Katz: University of Chicago; Abigail Sussman: University of Chicago

P-1-189 A simple computational model of salience map formation in the brain, Poster Presenter: Abe Leite, Authors: Abe Leite: Indiana University

P-1-190 Integrating semantics into developmental models of morphology learning, Poster Presenter: Abi Tenenbaum, Authors: Abi Tenenbaum: Massachusetts Institute of Technology; Mika Braginsky: Massachusetts Institute of Technology; Roger Levy: Massachusetts Institute of Technology

P-1-191 On the predictive power of neural language models for human real-time comprehension behavior, Poster Presenter: Ethan Gotlieb Wilcox, Authors: Ethan Gotlieb Wilcox: Harvard University; Jon Gauthier: Massachusetts Institute of Technology; Jennifer Hu: Massachusetts Institute of Technology; Peng Qian: Massachusetts Institute of Technology; Roger Levy: Massachusetts Institute of Technology

P-1-192 Do you see what I see? A cross-cultural comparison of social impressions of faces, Poster Presenter: Garrison Cottrell, Authors: Amanda Song: University of California San Diego; Weifeng Hu: University of California San Diego; Devendra Pratap Yadav: University of California San Diego; Fangfang Wen: Central China Normal University; Bin Zuo: Central China Normal University; Ed Vul: University of California San Diego; Garrison W Cottrell: University of California San Diego

P-1-193 Identifying Individual Differences in Sensemaking and Information Foraging, Poster Presenter: Kara Kedrick, Authors: Kara Kedrick: University of Minnesota; Sashank Varma: University of Minnesota; Paul Schrater: University of Minnesota, Twin Cities

P-1-194 Uncovering category representations with Linked MCMC with people, Poster Presenter: Pablo Leon Villagra, Authors: Pablo Leon Villagra: University of Edinburgh; Kay Otsubo: University of Toronto; Chris Lucas: University of Edinburgh; Daphna Buchsbaum: University of Toronto

P-1-195 Do people fit to Benford's law, or do they have a Benford bias?, Poster Presenter: Bruce Burns, Authors: Bruce Burns: The University of Sydney

P-1-196 How to navigate everyday distractions: Leveraging optimal feedback to train attention control, Poster Presenter: Maria Wirzberger, Authors: Maria Wirzberger: University of Stuttgart; Anastasia Lado: Max Planck Institute for Intelligent Systems; Lisa Eckerstorfer: Max Planck Institute for Intelligent Systems; Ivan Oreshnikov: Max Planck Institute for Intelligent Systems; Jean-Claude Passy: Max Planck Institute for Intelligent Systems; Adrian Stock: Max Planck Institute for Intelligent Systems; Amitai Shenhav: Brown University; Falk Lieder: Max Planck Institute for Intelligent Systems

P-1-197 Can neural networks acquire a structural bias from raw linguistic data?, Poster Presenter: Alex Warstadt, Authors: Alex Warstadt: New York University; Samuel R. Bowman: New York University

P-1-198 Modeling manipulative language use, Poster Presenter: Vinicius Macuch Silva, Authors: Vinicius Macuch Silva: Osnabrück University; Chris Cummins: University of Edinburgh; Michael Franke: Osnabrück University



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P-1-199 *Measuring the costs of planning*, Poster Presenter: Valkyrie Falso, Authors: Valkyrie Falso: Max Planck Institute for Intelligent Systems; Yash Raj Jain: Max Planck Institute for Intelligent Systems; Falk Lieder: Max Planck Institute for Intelligent Systems

P-1-200 *Popular peers promote prosocial behavior*, Poster Presenter: Andrea Gradassi, Authors: Andrea Gradassi: University of Amsterdam; Scarlett Slagter: University of Amsterdam; Wouter van den Bos: University of Amsterdam; Lucas Molleman: University of Amsterdam

P-1-516 *Asking questions with a big impact: Adapting to other interpretations of gradable adjectives*, Poster Presenter: Sandro Pezzelle, Authors: Sandro Pezzelle: University of Amsterdam; Raquel Fernandez: University of Amsterdam

P-1-522 *Exploring exploration: Comparing children with agents in unified exploration environments*, Poster Presenter: Eliza Kosoy, Authors: Eliza Kosoy: University of California, Berkeley; Jasmine Collins: University of California, Berkeley; David M Chan: University of California, Berkeley; Deepak Pathak: University of California, Berkeley; Pulkit Agrawal: Massachusetts Institute of Technology; Alison Gopnik: University of California, Berkeley



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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, Authors: Catherine Holland: Dartmouth College; Jonathan S Phillips: Dartmouth

P-2-201 Automatic detection of cross-language verbal deception, Poster Presenter: Pasquale Capuozzo, Authors: Pasquale Capuozzo: Università degli Studi di Padova; Ivano Lauriola: University of Padova; Carlo Strapparava: FBK-Irst; Fabio Aielli: University of Padova; Giuseppe Sartori: University of Padova

P-2-202 Inherent and emergent biases of vocal learning timeframes in zebra finches, Poster Presenter: Ana Isabel Alonso, Authors: Ana Isabel Alonso: University of Pennsylvania

P-2-203 “Take the middle” – Averaging prior and evidence as effective heuristic in bayesian reasoning, Poster Presenter: Katharina Loibl, Authors: Katharina Loibl: University of Education Freiburg; Timo Leuders: University of Education Freiburg

P-2-204 Investigating the role of verb frequency in factive and manner-of-speaking islands, Poster Presenter: Stephanie N Richter, Authors: Stephanie N Richter: University at Buffalo; Rui P. Chaves: University at Buffalo

P-2-205 Intention inference in a dynamic multi-goal environment, Poster Presenter: Desmond Ong, Authors: Desmond Ong: National University of Singapore; Marie Therese Robles Quieta: Institute of High Performance Computing; Fernando Basura: Institute of High Performance Computing

P-2-206 Reinforcement of semantic representations in pragmatic agents leads to the emergence of a mutual exclusivity bias, Poster Presenter: Xenia Ohmer, Authors: Xenia Ohmer: University of Osnabrueck; Peter König: University of Osnabrueck; Michael Franke: University of Osnabrueck

P-2-207 Propositional versus associative views of sentence memory, Poster Presenter: Kevin Shabahang, Authors: Kevin Shabahang: University of Melbourne; Hyungwook Yim: The University of Melbourne; Simon Dennis: The University of Melbourne

P-2-208 Individual adaptation in teamwork, Poster Presenter: Huao Li, Authors: Huao Li: University of Pittsburgh; Dana Hughes: Carnegie Mellon University; Michael Lewis: University of Pittsburgh; Katia Sycara: Carnegie Mellon University

P-2-209 Reducing retrieval time modulates the production effect, Poster Presenter: Megan O. Kelly, Authors: Megan O. Kelly: University of Waterloo; Xinyi Lu: University of Waterloo; Colin M. MacLeod: University of Waterloo; Evan Risko: University of Waterloo

P-2-210 Using signal detection theory to investigate the role of visual information in performance monitoring in typing, Poster Presenter: Svetlana Pinet, Authors: Svetlana Pinet: BCBL; Nazbanou Nozari: Carnegie Mellon University



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P-2-211 A Model of fast concept inference with object-factorized cognitive programs, Poster Presenter: Daniel P. Sawyer, Authors: Daniel P. Sawyer: California Institute of Technology; Miguel Lázaro-Gredilla: Vicarious AI; Dileep George: Vicarious AI

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, Authors: Patience Stevens: Carnegie Mellon University; David C. Plaut: Carnegie Mellon University

P-2-213 Adaptive sampling policies imply biased beliefs: A generalization of the hot stove effect, Poster Presenter: Jerker Denrell, Authors: Jerker Denrell: University of Warwick

P-2-214 Investigating the impact of social and biological cues in children's perception of humanoid robots, Poster Presenter: Jaemarie Solyst, Authors: Jaemarie Solyst: Heidelberg University; Sabina Pauen: Heidelberg University

P-2-215 A neural network model of the effect of prior experience with regularities on subsequent category learning, Poster Presenter: Casey L Roark, Authors: Casey L Roark: Carnegie Mellon University; David C. Plaut: Carnegie Mellon University; Lori L Holt: Carnegie Mellon University

P-2-216 Process and content in decisions from memory, Poster Presenter: Wenjia Joyce Zhao, Authors: Wenjia Joyce Zhao: University of Pennsylvania; Russell Richie: University of Pennsylvania; Sudeep Bhatia: University of Pennsylvania

P-2-217 Can changes in inhibitory control explain child-level theory of mind development?, Poster Presenter: Elif Nur Poyraz, Authors: Elif Nur Poyraz: Rutgers University, New Brunswick; Pernille Hemmer: Rutgers University, New Brunswick; Alan M. Leslie: Rutgers University, New Brunswick

P-2-218 The effect of book syntactic complexity on caregiver and child language profile during shared book reading, Poster Presenter: Anastasia A Stoops, Authors: Anastasia A Stoops: University of Illinois at Urbana-Champaign; Jessica L Montag: University of Illinois, Champaign-Urbana

P-2-219 Investigating the effects of transcranial Direct Current Stimulation (tDCS) on face recognition skills as indexed by the composite face effect., Poster Presenter: Ciro Civile, Authors: Emika Waguri: University of Exeter; R.P. McLaren: University of Exeter; IPL McLaren: University of Exeter; Ciro Civile: University of Exeter

P-2-220 Global Warming, Nationalism, and Reasoning With Numbers: Toward Techniques to Promote the Public's Critical Thinking About Statistics, Poster Presenter: Leela Velautham, Authors: Leela Velautham: University of California, Berkeley; Michael Ranney: University of California, Berkeley

P-2-221 Contribution of first-person sensory experience to thinking about seeing: Evidence from blindness, Poster Presenter: Elizabeth Musz, Authors: Elizabeth Musz: Johns Hopkins University; Arielle Silverman: Johns Hopkins University; Marina Bedny: Johns Hopkins University

P-2-222 What is an extreme outcome in risky choice?, Poster Presenter: Joel Holwerda, Authors: Joel Holwerda: University of New South Wales; Ben Newell: University of New South Wales

P-2-223 Tell me something I don't know: How perceived knowledge influences the use of information during decision making, Poster Presenter: Samantha Kleinberg, Authors: Samantha Kleinberg: Stevens Institute of Technology; Jesseca Marsh: Lehigh University



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P-2-224 Novice conceptions and perception of single and two force interactions, Poster Presenter: Rachel A Myer, Authors: Rachel A Myer: Temple University; Thomas Shipley: Temple University

P-2-225 Cognition at special forces boot camp: Does high-intensity physical exercise affect memorisation?, Poster Presenter: Maarten van der Velde, Authors: Maarten van der Velde: University of Groningen; Florian Sense: University of Groningen; Jelmer Borst: University of Groningen; Ruud Den Hartigh: University of Groningen; Maurits Baatenburg de Jong: Ministry of Defence; Hedderik van Rijn: University of Groningen

P-2-226 Children combine information from multiple models in a grid search task, Poster Presenter: Miss Charlotte E Wilks, Authors: Charlotte E Wilks: University of Stirling; Mark Atkinson: University of Stirling; Christine A. Caldwell: University of Stirling

P-2-227 Encoder-decoder neural architectures for fast amortized inference of cognitive process models, Poster Presenter: Alexander Fengler, Authors: Alexander Fengler: Brown University; Lakshmi Narasimhan Govindarajan: Brown University; Michael J. Frank: Brown University

P-2-228 Optimality and space in weakly constrained everyday activities, Poster Presenter: Petra Wenzl, Authors: Petra Wenzl: University of Bremen; Holger Schultheis: University of Bremen

P-2-229 "How helpful is this observation?": Children's evaluations of scientific evidence, Poster Presenter: Judith Danovitch, Authors: Judith Danovitch: University of Louisville; Candice Mills: The University of Texas at Dallas; Ravit Golan Duncan: Rutgers University; Allison Williams: University of Louisville; Lauren Girouard: University of Louisville

P-2-230 Intuitive signaling through an "imagined we", Poster Presenter: Stephanie Stacy, Authors: Stephanie Stacy: University of California, Los Angeles; Qingyi Zhao: University of California, Los Angeles; Minglu Zhao: University of California, Los Angeles; Max Kleiman-Weiner: Massachusetts Institute of Technology; Tao Gao: University of California, Los Angeles

P-2-231 Learning generalizations and exceptions: The good, the bad and the unpredictable, Poster Presenter: Karina Tachihara, Authors: Karina Tachihara: Princeton University; Adele Goldberg: Princeton University; Kenneth Norman: Princeton University

P-2-232 What is represented in memory after statistical learning?, Poster Presenter: Tess Allegra Forest, Authors: Tess Allegra Forest: University of Toronto; Amy Sue Finn: University of Toronto; Margaret L Schlichting: University of Toronto

P-2-233 Antarjami: Exploring psychometric evaluation through a computer-based game, Poster Presenter: Anirban Lahiri, Authors: Anirban Lahiri: Arndit Ltd.; Utanko Mitra: Indian Institute of Technology, Kharagpur; Sunreeta Sen: Arndit Ltd.; Mreenal Chakraborty: Arndit Ltd.; Max Kleiman-Weiner: Massachusetts Institute of Technology; Rajlakshmi Guha: Indian Institute of Technology; Pabitra Mitra: Indian Institute of Technology; Anupam Basu: Indian Institute of Technology; Partha Pratim Chakraborty: Indian Institute of Technology

P-2-234 Constructing meaning in small increments, Poster Presenter: Peter Lindes, Authors: Peter Lindes: University of Michigan

P-2-235 A spiking neuron model of biased inferential decision making, Poster Presenter: Peter Duggins, Authors: Peter Duggins: University of Waterloo; Dominik Krzeminski: Cardiff University; Szymon Wichary: Leiden University



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P-2-236 Listener's big five personality traits predict changes in pupil size during spoken language comprehension, Poster Presenter: Isabell Hubert Lyall, Authors: Isabell Hubert Lyall: University of Alberta; Juhani Järvikivi: University of Alberta

P-2-237 Modeling visuospatial reasoning across 17 different tests on the leiter scale of nonverbal Intelligence, Poster Presenter: James Ainooson, Authors: James Ainooson: Vanderbilt University; Joel Michelson: Vanderbilt University; Deepayan Sanyal: Vanderbilt University; Joshua Henry Palmer Palmer: Vanderbilt University; Maithilee Kunda: Vanderbilt University

P-2-238 Part of your world: Trends in the visual complexity of digital Media, Poster Presenter: Deepayan Sanyal, Authors: Deepayan Sanyal: Vanderbilt University; Joel Michelson: Vanderbilt University; Adriane Seiffert: Vanderbilt University; Maithilee Kunda: Vanderbilt University

P-2-239 Ten semantic differential evaluations of written Japanese vowels in a paper-based survey study, Poster Presenter: Misa Ando, Authors: Misa Ando: Hiroshima University; Xinyi Liu: Hiroshima University; YAN YAN: Hiroshima University; yutao yang: Hiroshima university; Shushi Namba: Hiroshima University; Kazuaki Abe: Hiroshima University; Toshimune Kambara: Hiroshima University

P-2-240 Self-inferred desires to benefit self and other, Poster Presenter: Ryan Carlson, Authors: Ryan Carlson: Yale University; Hongbo Yu: University of California Santa Barbara; Molly Crockett: Yale University

P-2-241 Great expectations: Evaluating the role of object-color expectations on visual memory, Poster Presenter: Kimele Persaud, Authors: Kimele Persaud: Rutgers University - Newark; Elizabeth Bonawitz: Rutgers University - Newark

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, Authors: Tomohiro Taira: Osaka City University

P-2-243 Potential for cumulative culture in capuchin monkeys (*Sapajus apella*) in a simulated transmission chain study., Poster Presenter: Donna Kean, Authors: Donna Kean: University of Stirling; Elizabeth Renner: University of Stirling; Mark Atkinson: University of Stirling; Chloë India Wright: University of Stirling; Amy Ann Derrick: University of Stirling; Hika Kuroshima: Kyoto University; Christine A. Caldwell: University of Stirling

P-2-244 Learning hidden causal structure from temporal data, Poster Presenter: Simon Valentin, Authors: Simon Valentin: University of Edinburgh; Neil R Bramley: University of Edinburgh; Christopher Lucas: University of Edinburgh

P-2-245 Quantifying sound-graphic systematicity and application on multiple phonographs, Poster Presenter: Hana Jee, Authors: Hana Jee: The University of Edinburgh; Monica Tamariz: Hariat-Watt University; Richard Shillcock: The University of Edinburgh

P-2-246 Using K-means clustering for out-of-sample predictions of memory retention, Poster Presenter: Florian Sense, Authors: Florian Sense: InfiniteTactics LLC; Michael Gordon Collins: Wright State University; Tiffany Jastrzembksi: Wright-Patterson Air Force Base; Michael Krusmark: Wright-Patterson Air Force Base

P-2-247 Preschoolers' responses to unknown words: Questions and evaluation of definition quality, Poster Presenter: Laura Janakiefski, Authors: Laura Janakiefski: Vanderbilt University; Nicholas Tippenhauer: Vanderbilt University; Megan M. Saylor: Vanderbilt University



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P-2-248 Adapting educational technologies across learner Populations: A usability study with adolescents on the autism Spectrum, Poster Presenter: Xiaoman Zi, Authors: Xiaoman Zi: Vanderbilt University; Shiyao Li: Vanderbilt University; Roxanne Rashedi: Vanderbilt University; Marian Rushdy: Vanderbilt University; Ben Lane: Vanderbilt University; Shitanshu Mishra: Vanderbilt University; Gautam Biswas: Vanderbilt University; Amy Swanson: Vanderbilt University Medical Center; Amy Kinsman: Vanderbilt University Medical Center; Nicole Bardett: Vanderbilt University Medical Center; Zachary Warren: Vanderbilt University Medical Center; Pablo Juarez: Vanderbilt University Medical Center; Maithilee Kunda: Vanderbilt University

P-2-249 Item distinctiveness is more critical than item context in a cross-situational word learning paradigm, Poster Presenter: Kendra V Lange, Authors: Kendra V Lange: The Pennsylvania State University; Elisabeth A. Karuza: The Pennsylvania State University

P-2-250 Not as bad as painted? Legal expertise, intentionality ascription, and outcome effects revisited, Poster Presenter: Karolina Prochownik, Authors: Karolina Prochownik: Ruhr-University Bochum; Melina Sophie Krebs: Institute for Philosophy II; Alex Wiegmann: Ruhr University Bochum; Joachim Horvath: Institute for Philosophy II

P-2-251 What do computers know about semantics anyway? Testing distributional semantics models against a broad range of relatedness ratings, Poster Presenter: Kevin Brown, Authors: Kevin Brown: Oregon State University; Eiling Yee: University of Connecticut; Elliot Saltzman: Boston University; James Magnuson: University of Connecticut; Ken McRae: University of Western Ontario

P-2-252 Graphical vs. spatial models of distributional semantics, Poster Presenter: Shufan Mao, Authors: Shufan Mao: University of Illinois at Urbana Champaign; Jon Willits: University of Illinois at Urbana-Champaign

P-2-253 Exploring lexical relations in BERT using semantic priming, Poster Presenter: Kanishka Misra, Authors: Kanishka Misra: Purdue University; Allyson Ettinger: University of Chicago; Julia Rayz: Purdue University

P-2-254 Is time travel possible? Children's intuitive theories about the nature of time, Poster Presenter: Cole Dougherty, Authors: Cole Dougherty: University of Texas at Austin; James Daly: University of Texas at Austin; Jacqueline Woolley: University of Texas at Austin; Katharine A Tillman: University of Texas at Austin

P-2-255 Choice strategies in a changing social learning environment, Poster Presenter: Rista C Plate, Authors: Rista C Plate: University of Pennsylvania; Kristin Shutts: University of Wisconsin-Madison; Aaron Cochrane: University of Wisconsin-Madison; C. Shawn Green: University of Wisconsin-Madison; Seth D Pollak: University of Wisconsin-Madison

P-2-256 Constructing complex social categories from distinct group membership information, Poster Presenter: Alice Xia, Authors: Alice Xia: University of Pennsylvania; Sarah Solomon: University of Pennsylvania; Sharon L. Thompson-Schill: University of Pennsylvania; Adrianna C. Jenkins: University of Pennsylvania

P-2-257 Relations between the home and cognitive development in nicaraguan children, Poster Presenter: Elayne Vollman, Authors: Elayne Vollman: University of Chicago; Lindsey Engle Richland: University of California, Irvine



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- P-2-258 Decision-making under uncertain circumstances in Borderline Personality Disorder (BPD) patients**, Poster Presenter: Mathi Manavalan, Authors: Mathi Manavalan: University of Minnesota-Twin Cities; Xin Song: University of Minnesota, Twin Cities; Iris Vilares: University of Minnesota
- P-2-259 Executive function affects resilience with different cognitive mechanisms between adolescence and emerging adulthood**, Poster Presenter: Solna Lin Na Xing, Authors: Solna Lin Na Xing: University of Macau; Sophia W Deng: University of Macau
- P-2-260 Predicting social exclusion: A computational linguistic approach to the detection of ostracism**, Poster Presenter: Greta Gandolfi, Authors: Greta Gandolfi: University of Trento; Carlo Strapparava: FBK-Irst
- P-2-261 Text matters but speech influences: A computational analysis of syntactic ambiguity resolution**, Poster Presenter: Won Ik Cho, Authors: Jeonghwa Cho: University of Michigan; Woo Hyun Kang: Seoul National University; Nam Soo Kim: Seoul National University
- P-2-262 Simulations and theory of generalization in recurrent networks**, Poster Presenter: Juan C Valle-Lisboa, Authors: Juan C Valle-Lisboa: Universidad de la República
- P-2-263 Automatic and controlled sentence production: A computational model**, Poster Presenter: Eugene Buyakin, Authors: Eugene Buyakin: Birkbeck University; Richard P Cooper: Birkbeck, University of London
- P-2-264 Science & engineering goals: Learning about the control-of-variable strategy from picture books**, Poster Presenter: Vaunam Venkadasalam, Authors: Vaunam Venkadasalam: University of Toronto; Lynn G. Nguyen: University of Toronto; Nicole Larsen: University of Toronto; Angela Nyhout: University of Toronto; Patricia Ganea: University of Toronto
- P-2-265 4- and 5-year-olds' comprehension of functional metaphors**, Poster Presenter: Rebecca Zhu, Authors: Rebecca Zhu: University of California, Berkeley; Mariel Goddu: University of California, Berkeley; Alison Gopnik: University of California, Berkeley
- P-2-266 Positive effects of a developmental period without control**, Poster Presenter: Rebecca Jackson, Authors: Rebecca Jackson: University of Cambridge; Matthew Lambon Ralph: University of Cambridge; Timothy T Rogers: University of Wisconsin-Madison
- P-2-267 Visual statistical learning is facilitated in zipfian distributions**, Poster Presenter: Ori Lavi-Rotbain, Authors: Ori Lavi-Rotbain: The Hebrew University; Inbal Arnon: Hebrew University
- P-2-268 The signature of all things: children infer knowledge states from static images**, Poster Presenter: Madeline Pelz, Authors: Madeline Pelz: Massachusetts Institute of Technology; Laura Schulz: Massachusetts Institute of Technology; Julian Jara-Ettinger: Yale University
- P-2-269 Domestic dogs' understanding of spatial temporal priority**, Poster Presenter: Julia Espinosa, Authors: Julia Espinosa: University of Toronto; Katherine McGinn: University of Toronto; Madeline Helmer Pelgrim: University of Toronto; Daphna Buchsbaum: University of Toronto



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P-2-270 *How nouns surface as verbs: Inference and generation in word class conversion*, Poster Presenter: Lei Yu, Authors: Lei Yu: University of Toronto; Lana El Sanyoura: University of Toronto; Yang Xu: University of Toronto

P-2-271 *Costly exceptions: Deviant exemplars reduce category Compression*, Poster Presenter: Daniel Silliman, Authors: Daniel Silliman: Binghamton University; Sean Snoddy: Binghamton University; Matt Wetzel: Binghamton University; Kenneth Kurtz: Binghamton University

P-2-272 *Learning to cooperate: Emergent communication in multi-agent navigation*, Poster Presenter: Ivana Kajić, Authors: Ivana Kajić: University of Waterloo; Eser Aygün: DeepMind; Doina Precup: DeepMind

P-2-273 *Acoustic features of infant directed speech in female and male speakers*, Poster Presenter: Rong Huang, Authors: Rong Huang: University at Albany, State University of New York; Tianlin Wang: University at Albany, State University of New York; Elie ChingYen Yu: University at Albany, State University of New York; Jill Lany: University of Liverpool

P-2-274 *Lexicalization of quantificational forces in adverbial and determiner domains*, Poster Presenter: Johanna V. Alstott, Authors: Johanna V. Alstott: Harvard University; Masoud Jasbi: Harvard University

P-2-275 *Causal learning with two causes over weeks*, Poster Presenter: Ciara L Willett, Authors: Ciara L Willett: University of Pittsburgh; Benjamin Rottman: University of Pittsburgh

P-2-276 *Multimodal learning: An investigation into memory integration across representational formats*, Poster Presenter: Lucy M Cronin-Golomb, Authors: Lucy M Cronin-Golomb: Emory University; Patricia J. Bauer: Emory University

P-2-277 *Abstraction and generalization: Comparing adaptive models of categorization*, Poster Presenter: Dr Julian Zubeck, Authors: Julian Zubeck: University of Warsaw; Ludmila Kuncheva: Bangor University

P-2-278 *The relation between gist and item memory over a Month*, Poster Presenter: Haiyun Tima Zeng, Authors: Haiyun Tima Zeng: University of Pennsylvania; Alexa Tompar: University of Pennsylvania; Anna Schapiro: University of Pennsylvania; Sharon L. Thompson-Schill: University of Pennsylvania

P-2-279 *Investigating simple object representations in model-free deep reinforcement learning*, Poster Presenter: Guy Davidson, Authors: Guy Davidson: New York University; Brenden Lake: New York University

P-2-280 *Diagnosing pervasive issues with parameter estimation*, Poster Presenter: Sabina Johanna Sloman, Authors: Sabina Johanna Sloman: Carnegie Mellon University; Stephen Broomell: Carnegie Mellon University; Timothy Kusuma: Carnegie Mellon University

P-2-281 *Requisite variety, cognition, and scientific change*, Poster Presenter: Michael Lissack, Authors: Michael Lissack: Tongji University

P-2-282 *Contextual interference effect in motor skill learning: An empirical and computational investigation*, Poster Presenter: Julia Marie Schorn, Authors: Julia Marie Schorn: University of California, Los Angeles; Hongjing Lu: University of California, Los Angeles; Barbara Knowlton: University of California, Los Angeles



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P-2-283 *An investigation of the multilingual and bi-dialectal advantage in executive control*, Poster Presenter: Kyriakos Antoniou, Authors: Kyriakos Antoniou: University of Cyprus; George Spanoudis: University of Cyprus

P-2-284 *Generalizing outside the training set: When can neural networks learn identity effects?*, Poster Presenter: Simone Brugiapaglia, Authors: Simone Brugiapaglia: Concordia University; Paul Tupper: Simon Fraser University; Matthew Liu: Concordia University

P-2-285 *Rhythmic abilities in prereaders predict future reading skills*, Poster Presenter: Camila Zugarramurdi, Authors: Camila Zugarramurdi: Universidad de la Republica; Manuel Carreiras: Basque Center on Cognition, Brain and Language; Juan C Valle-Lisboa: Universidad de la República

P-2-286 *Can a composite metacognitive judgment accuracy score successfully capture performance variance during multimedia Learning?*, Poster Presenter: Megan D Wiedbusch, Authors: Megan D Wiedbusch: University of Central Florida; Roger Azevedo: University of Central Florida; Michael Brown: University of Central Florida

P-2-287 *Inferring physical cause from statistical anomalies*, Poster Presenter: Elizabeth Attisano, Authors: Stephanie Denison: University of Waterloo ; Elizabeth Attisano: University of Waterloo

P-2-288 *Modeling pupillary surprise response in elementary school children with theory-based Bayesian models*, Poster Presenter: Joseph A Colantonio II, Authors: Joseph A Colantonio II: Rutgers University - Newark; Igor Bascandzhev: Rutgers University; Maria Theobald: Leibniz Institute for Research and Information in Education (DIPF); Garvin Brod: Leibniz Institute for Research and Information in Education (DIPF); Elizabeth Bonawitz: Rutgers University - Newark

P-2-289 *Accessing distant analogs over superficial matches: How efficient is the architecture of our retrieval systems?*, Poster Presenter: Maximo Trench, Authors: Maximo Trench: University of Comahue; Lucía Micaela Tavernini: University of Comahue; Valeria Olguín: University of Comahue; Ricardo A. Minervino: University of Comahue

P-2-290 *FrameNet for modeling extraction from coordinate structures*, Poster Presenter: Mai Al-Khatib, Authors: Mai Al-Khatib: University of Minnesota

P-2-291 *Grammatical marking and the tradeoff between code length and informativeness*, Poster Presenter: Frank Mollica, Authors: Francis Mollica: University of Melbourne; Geoff Bacon: University of California; Yang Xu: University of Toronto; Terry Regier: University of California, Berkeley; Charles Kemp: University of Melbourne

P-2-292 *Deep daxes: Mutual exclusivity arises through both learning biases and pragmatic strategies in neural networks*, Poster Presenter: Kristina Gulordava, Authors: Kristina Gulordava: Shift Technology; Thomas Brochhagen: Universitat Pompeu Fabra; Gemma Boleda: Universitat Pompeu Fabra

P-2-293 *The effect of state representations in sequential sensory prediction: Introducing the shape sequence task*, Poster Presenter: Henrik Siljebråt, Authors: Henrik Siljebråt: Goldsmiths, University of London; Alan D Pickering: Goldsmiths, University of London

P-2-294 *Group- and Individual-Level information affects children's playmate choice*, Poster Presenter: Rongzhi Liu, Authors: Rongzhi Liu: University of California, Berkeley; Gil Diesendruck: Bar-Ilan University; Fei Xu: University of California, Berkeley



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P-2-295 *Chance-discovery and chance-curation in online communities*, Poster Presenter: Selene Arfini, Authors: Selene Arfini: University of Pavia; Lorenzo Magnani: University of Pavia; Tommaso W Bertolotti: University of Pavia

P-2-296 *Cooperation, response time, and social value orientation: A meta-analysis*, Poster Presenter: Andrea Guido, Authors: Giulia Andrichetto: National research Council of Italy; Valerio Capraro: Middlesex University; Andrea Guido: Institute for Future Studies; Aron Szekely: Collegio Carlo Alberto

P-2-297 *Understanding scalar implicature without scale markers SOME and ALL in Japanese preschoolers and adults*, Poster Presenter: Tetsuya Yasuda, Authors: Tetsuya Yasuda: Tokyo Denki University; Harumi Kobayashi: Tokyo Denki University

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, Authors: Valeria Olguín: University of Comahue; Lucía Micaela Tavernini: University of Comahue; Maximo Trench: University of Comahue; Ricardo A. Minervino: University of Comahue

P-2-299 *Modelling the emergence of positional compositional structure*, Poster Presenter: Henry Coxe-Conklin, Authors: Henry Coxe-Conklin: University of Edinburgh; Stella Frank: University of Edinburgh; Robert Truswell: University of Edinburgh; Kenny Smith: University of Edinburgh

P-2-300 *Immediate action-effects facilitate response speed via stimulus-response association*, Poster Presenter: Takumi Tanaka, Authors: Takumi Tanaka: Kyushu University

P-2-301 *Motor chunking during sequence learning in grid-navigation tasks*, Poster Presenter: Krishn Bera, Authors: Krishn Bera: IIIT-Hyderabad; Anuj Shukla: International Institute of Information Technology; Raju Surampudi Bapi: IIIT Hyderabad

P-2-302 *End-to-end models for the analysis of system 1 and system 2 interactions based on eye-tracking data*, Poster Presenter: Antonio Rizzo, Authors: Alessandro Rossi: University of Siena; Sara Ermini: University of Siena; Dario Bernabini: University of Siena; Dario Zanca: University Of Siena; Marino Todisco: Università di Siena; Alessandro Genovese: AIDILAB; Antonio Rizzo: University of Siena

P-2-303 *Configurative weighting as a two-plane approximation of bayesian estimates*, Poster Presenter: Joakim Sundh, Authors: Joakim Sundh: University of Warwick; Jerker Denrell: University of Warwick

P-2-304 *Seeing (bad) intentions in robot faces: an EEG study*, Poster Presenter: Martin Maier, Authors: Martin Maier: Humboldt-Universität zu Berlin; Olaf Hellwich: Technische Universität Berlin; Rasha Abdel Rahman: Humboldt-Universität zu Berlin

P-2-305 *Are mental representations of object shape always quickly updateable during language Comprehension?*, Poster Presenter: Oleksandr V. Horchak, Authors: Oleksandr V. Horchak: Instituto Universitário de Lisboa (ISCTE-IUL); Margarida V. Garrido: Instituto Universitário de Lisboa (ISCTE-IUL)

P-2-306 *Are modal representations automatic ingrained when processing the meaning of motor concrete Spanish verbs?*, Poster Presenter: Roberto Aguirre, Authors: María Noel Macedo: Universidad de la República; Braulio Martínez: Universidad de la República; Roberto Aguirre: Universidad de la República



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P-2-307 Malleability of working memory through chess in schoolchildren—A two-year intervention study, Poster Presenter: Ebenezer Joseph, Authors: Ebenezer Joseph: Emmanuel Chess Centre; Veena Easvaradoss: Women's Christian College; Suneera Abraham: Emmanuel Chess Centre; Sweta Vaddadi: Emmanuel Chess Centre

P-2-308 Children's understanding of relational vocabulary for ordinal and magnitude relations, Poster Presenter: Michelle Hurst, Authors: Michelle Hurst: University of Chicago; Abrea Greene: The University of Chicago; Susan C. Levine: University of Chicago

P-2-309 A vicious loop? Longitudinal relations between math anxiety and math performance for grade 2 and 3 Students, Poster Presenter: Shujie Song, Authors: Shujie Song: Carleton University; Chang Xu: Carleton University; Jo-Anne LeFevre: Carleton University; Sheri-Lynn Skwarchuk: University of Winnipeg; Erin Maloney: University of Ottawa; Helena P. Osana: Concordia University

P-2-310 Does prior knowledge influence learners' cognitive and metacognitive strategies over time during game-based Learning?, Poster Presenter: Daryn A Dever, Authors: Daryn A Dever: University of Central Florida; Elizabeth B Cloude: University of Central Florida; Roger Azevedo: University of Central Florida

P-2-311 Using natural language processing models to evaluate STEM book coherence, Poster Presenter: Hilary Miller, Authors: Hilary Miller: Emory University; Phillip Wolff: Emory University

P-2-312 Children's attribution of disfluency to different sources, Poster Presenter: Si On Yoon, Authors: Si On Yoon: University of Iowa; Cynthia Fisher: University of Illinois, Urbana-Champaign

P-2-313 Relational reasoning and generalization using non-symbolic neural networks, Poster Presenter: Atticus Geiger, Authors: Atticus Geiger: Stanford; Alexandra Carstensen: Stanford; Michael C. Frank: Stanford University; Christopher Potts: Stanford University

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, Authors: Jane B. Childers: Trinity University; Bibiana Cutilletta: Trinity University; Priscilla Tovar-Perez: University of Wisconsin- Madison; Blaire Morgan Porter: Emory University

P-2-315 Investigating the behavior of malicious actors through the game of mafia, Poster Presenter: Samee Omotayo Ibraheem, Authors: Samee Omotayo Ibraheem: University of California, Berkeley; Vael Gates: University of California, Berkeley; John DeNero: University of California, Berkeley; Tom Griffiths: Princeton University

P-2-316 Active vision in the perception of actions: An eye tracking study in naturalistic contexts, Poster Presenter: Ryan E Peters, Authors: Ryan E Peters: Indiana University; Dian Zhi: Indiana University; Matthew Petersen: Indiana University; Chen Yu: Indiana University, Bloomington

P-2-317 Human-like learning Framework for frequency-skewed multi-level classification, Poster Presenter: Amarjot Singh, Authors: Amarjot Singh: Stanford University; Jay McClelland: Stanford University

P-2-318 Modeling human cognitive flexibility with extemporaneous Networks, Poster Presenter: Joseph German, Authors: Joseph German: University of Rochester; Robert Jacobs: University of Rochester



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- P-2-319 Examining developmental change in children's information use**, Poster Presenter: Samantha Gualtieri, Authors: Samantha Gualtieri: University of Toronto; Stephanie Denison: University of Waterloo
- P-2-320 The semantic network: uncovering the mechanisms that build organized word knowledge in development**, Poster Presenter: Apoorva Vallampati, Authors: Apoorva Vallampati: The Ohio State University; Layla Unger: The Ohio State University; Olivera Savic: The Ohio State University; Vladimir Sloutsky: The Ohio State University
- P-2-321 Extracting low-dimensional psychological representations from convolutional neural networks**, Poster Presenter: Aditi Jha, Authors: Aditi Jha: Princeton University; Joshua Peterson: Princeton University; Tom Griffiths: University of California, Berkeley
- P-2-322 A novel quantum approach to the dynamics of decision making**, Poster Presenter: Lena Rosendahl, Authors: Lena Rosendahl: Princeton University; Anastasia S. Bizyaeva: Princeton University; Jonathan Cohen: Princeton University
- P-2-323 A memory-augmented neural network model of abstract sequential reasoning**, Poster Presenter: Taylor Webb, Authors: Ishan Sinha: Princeton University; Jonathan Cohen: Princeton University; Taylor Webb: University of California, Los Angeles
- P-2-324 The effects of mindfulness meditation and relaxation on brain activity**, Poster Presenter: Cassandra Morrison, Authors: Cassandra Morrison: University of Ottawa; Ashvent Malik: University of Ottawa; Vanessa Taler: University of Ottawa
- P-2-325 Chaining and historical adjective extension**, Poster Presenter: Karan Grewal, Authors: Karan Grewal: University of Toronto; Yang Xu: University of Toronto
- P-2-326 Phonemic learning based on articulatory-acoustic speech representations**, Poster Presenter: Heikki Rasilo, Authors: Heikki Rasilo: Vrije Universiteit Brussel
- P-2-327 Quality engineering in the development of an intelligent agent**, Poster Presenter: Tim Halverson, Authors: Tim Halverson: Aptima, Inc.; Michelle Caisse: L3Harris; Mary Freiman: Aptima, Inc.; Christopher Myers: Air Force Research Laboratory
- P-2-328 Spatial alignment supports comparison of life science visuals for 7th graders**, Poster Presenter: Nina Simms, Authors: Nina Simms: Northwestern University; Benjamin Jee: Worcester State University; Bryan Matlen: WestEd; Dedre Gentner: Northwestern University
- P-2-329 Can audio-visual integration, adaptive learning, and explicit feedback improve the perception of noisy speech?**, Poster Presenter: Stephanie R Deschamps, Authors: Stephanie R Deschamps: McGill University; Hanna Zhang: University of Toronto; Blair Armstrong: University of Toronto
- P-2-330 Distributional statistical learning: How and how well can it be measured?**, Poster Presenter: Bethany Growns, Authors: Bethany Growns: Arizona State University; Erwin Mattijssen: Netherlands Forensic Institute
- P-2-331 Individual differences in metacognitive ability of grandiose and vulnerable narcissists**, Poster Presenter: Shane Littrell, Authors: Shane Littrell: University of Waterloo; Jonathan Fugelsang: University of Waterloo; Evan Risko: University of Waterloo



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- P-2-332 *The influence of mismatched network topologies on learning across levels of the language hierarchy***, Poster Presenter: Elisabeth A. Karuza, Authors: Gwen Wiegand: The Pennsylvania State University; Elisabeth A. Karuza: The Pennsylvania State University
- P-2-333 *A FIRST: Arabic-English biliterates demonstrate the SNARC effect***, Poster Presenter: Jacquelyn H. Berry, Authors: Jacquelyn H. Berry: Rensselaer Polytechnic Institute
- P-2-334 *Leveraging unstructured statistical knowledge in a probabilistic language of thought***, Poster Presenter: Alexander Lew, Authors: Alexander Lew: Massachusetts Institute of Technology; Michael Henry Tessler: Massachusetts Institute of Technology; Vikash Mansinghka: Massachusetts Institute of Technology; Josh Tenenbaum: Massachusetts Institute of Technology
- P-2-335 *Extending the Rogers and McClelland model of semantic cognition (2003) to work with raw pixel information***, Poster Presenter: Arihant Jain, Authors: Arihant Jain: New York University; Brenden Lake: New York University; Todd M Gureckis: New York University
- P-2-336 *Coloring outside the lines: Error patterns in children's acquisition of color terms***, Poster Presenter: Julia Watson, Authors: Julia Watson: University of Toronto; Barend Beekhuizen: University of Toronto, Mississauga; Suzanne Stevenson: University of Toronto
- P-2-337 *Human-generated explanations of inferences in Bayesian networks: A case study***, Poster Presenter: Marko Tesic, Authors: Marko Tesic: Birbeck, University of London; Ulrike Hahn: Birkbeck, University of London
- P-2-338 *Attentional competition in genuine classrooms: Analysis of the classroom visual environment***, Poster Presenter: Karrie Godwin, Authors: Karrie Godwin: Kent State University; Howard Seltman: Carnegie Mellon University; Peter Scupelli: Carnegie Mellon University; Anna Fisher: Carnegie Mellon University
- P-2-339 *The development of creative search strategies***, Poster Presenter: Yuval Hart, Authors: Yuval Hart: The Hebrew University of Jerusalem; Eliza Kosoy: Berkeley; Emily G Liquin: Princeton; Julia Anne Leonard: University of Pennsylvania; Allyson Mackey: University of Pennsylvania; Alison Gopnik: University of California, Berkeley
- P-2-340 *Simulating infant visual learning by comparison: An initial model***, Poster Presenter: Kezhen Chen, Authors: Kezhen Chen: Northwestern University; Ken Forbus: Northwestern University; Dedre Gentner: Northwestern University; Susan Hespos: Northwestern University; Erin M Anderson: Northwestern University
- P-2-341 *The rainbow mnemonic improves recall in preschool children***, Poster Presenter: Jeri Lynn Little, Authors: Elena Ramlow: Hillsdale College; Jeri Lynn Little: California State University, East Bay
- P-2-342 *Pronoun interpretation in the context of dynamic actions: a test of the reinstatement hypothesis***, Poster Presenter: Tiana V. Simovic, Authors: Tiana V. Simovic: University of Toronto; Craig Chambers: University of Toronto
- P-2-343 *Radical embodiment and the relation between individual and joint action: A level-neutral approach***, Poster Presenter: Guilherme Sanches de Oliveira, Authors: Guilherme Sanches de Oliveira: University of Cincinnati
- P-2-344 *Social and visual cognition to predict collaborative problem solving***, Poster Presenter: Frances Grace McCormick, Authors: Frances Grace McCormick: University of Toronto; Priscilla Layarda: University of Toronto; Karen Bernhardt-Walther: York University



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P-2-345 Selective numeracy: Effects of numeracy, popular-science reports and personal experience on data-based decision, Poster Presenter: Wan Liu, Authors: Wan Liu: King's University College; Marcie Penner: King's University College

P-2-346 Children's expressive and receptive knowledge of the english regular Plural, Poster Presenter: Stephan C. Meylan, Authors: Stephan Meylan: Massachusetts Institute of Technology; Roger Levy: Massachusetts Institute of Technology; Erika Bergelson: Duke University

P-2-347 Generalizations about the functions of agents, Poster Presenter: Hillary Harner, Authors: Hillary Harner: US Naval Research Laboratory; Joanna Korman: The MITRE Corporation; Sangeet Khemlani: Naval Research Laboratory

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, Authors: Nicolo Cesana-Arlotti: Johns Hopkins University; Tyler Knowlton: University of Maryland; Jeffrey Lidz: University of Maryland; Justin Halberda: Johns Hopkins University

P-2-349 Disentangling generativity in visual cognition, Poster Presenter: Declan Campbell, Authors: Declan Campbell: University of Wisconsin-Madison; Timothy T Rogers: University of Wisconsin-Madison

P-2-350 Humans measure algorithmic complexity to guide engagement with event sequences, Poster Presenter: Gal Raz, Authors: Gal Raz: Massachusetts Institute of Technology; Setayesh Radkani: Massachusetts Institute of Technology; Josh Tenenbaum: Massachusetts Institute of Technology; Rebecca Saxe: Massachusetts Institute of Technology

P-2-351 Learners sacrifice robust communication as a result of a social bias, Poster Presenter: Masha Fedzechkina, Authors: Masha Fedzechkina: University of Arizona; Gareth Roberts: University of Pennsylvania

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, Authors: Ella Stansbury: University of Bourgogne Franche-Comté; Arnaud Witt: University of Bourgogne Franche-Comté; Jean-Pierre Thibaut: University of Bourgogne Franche-Comté

P-2-353 Why blueberries are blue: intuitions about color labels among congenitally blind and sighted adults, Poster Presenter: Judy Kim, Authors: Judy Kim: Johns Hopkins University; Marina Bedny: Johns Hopkins University

P-2-354 Learning word-referent mappings and concepts from raw inputs, Poster Presenter: Wai Keen Vong, Authors: Wai Keen Vong: New York University; Brenden Lake: New York University

P-2-355 Developmental changes in children's categorization of facial cues of emotion, Poster Presenter: Kristina Woodard, Authors: Kristina Woodard: University of Wisconsin-Madison; Martin Zettersten: University of Wisconsin-Madison; Seth D Pollak: University of Wisconsin-Madison

P-2-356 Monolingual and bilingual toddlers' reliance on the mutual exclusivity principle and statistics to learn colour labels, Poster Presenter: Priscilla Fung, Authors: Priscilla Fung: University of Toronto; Elizabeth Johnson: University of Toronto



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P-2-357 *When do labels facilitate category learning in adults? The role of visual category structure*, Poster Presenter: Nadja Althaus, Authors: Nadja Althaus: University of East Anglia

P-2-358 *What matters? The effect of individual political ideology on spoken gender stereotype comprehension*, Poster Presenter: Stephanie J. Hammond-Thrasher, Authors: Stephanie J Hammond-Thrasher: University of Alberta; Kaidi Lõo: University of Tartu; Juhani Järvikivi: University of Alberta

P-2-359 *The impact of semantic versus perceptual attention on memory representation*, Poster Presenter: Sagana Vijayarajah, Authors: Sagana Vijayarajah: University of Toronto; Eilidh McAlister: University of Toronto; Margaret L Schlichting: University of Toronto

P-2-360 *Abstract words as emotion buffers: Affect labeling and distress reduction*, Poster Presenter: Daniel M. Walsh, Authors: Daniel Walsh: Colorado College; Kevin J. Holmes: Colorado College

P-2-361 *Generating new concepts with hybrid neuro-symbolic models*, Poster Presenter: Reuben A Feinman, Authors: Reuben A Feinman: New York University; Brenden Lake: New York University

P-2-362 *Understanding children's productions: Does experience play a role?*, Poster Presenter: Amrita Bagga, Authors: Amrita Bagga: University of Toronto; Madeleine Yu: University of Toronto; Elizabeth Johnson: University of Toronto

P-2-363 *The iconicity of random words*, Poster Presenter: Charles P Davis, Authors: Charles P Davis: University of Connecticut; Gary Lupyan: University of Wisconsin-Madison

P-2-364 *The adaptive glasgow face-matching task*, Poster Presenter: Necdet Gurkan, Authors: Necdet Gurkan: Stevens Institute of Technology; Jordan Suchow: Stevens Institute of Technology

P-2-365 *Dissociable influences of reward and punishment on adaptive cognitive control*, Poster Presenter: Xiamin Leng, Authors: Xiamin Leng: Brown University; Harrison Ritz: Brown University; Debbie Yee: Brown University; Amitai Shenhav: Brown University

P-2-366 *Embodiment and immersion in cognition-focused virtual environments*, Poster Presenter: Anya D. Pejemsky, Authors: Anya D Pejemsky Pejemsky: Carleton University; Kathleen Van Benthem: Carleton University; Chris M Herdman Dr.: Carleton University

P-2-367 *Using the TrackIt task to measure the development of selective sustained attention in children ages 2-7*, Poster Presenter: Emily Keebler, Authors: Emily Keebler: Carnegie Mellon University; Jaeah Kim: Carnegie Mellon University; Oceann C Stanley: Carnegie Mellon University; Erik Thiessen: Carnegie Mellon University; Anna Fisher: Carnegie Mellon University

P-2-368 *Supplementing problem solving with erroneous examples does not improve learning from an online fraction tutor*, Poster Presenter: Maria Vorobeva, Authors: Sabrina Burr: Carleton University; Maria Vorobeva: Carleton University; Heather P. Douglas: Carleton University; Kasia Muldner: Carleton University



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P-2-369 Learners' bias to balance production effort against message uncertainty is independent of their native language, Poster Presenter: Lucy Hall Hartley, Authors: Lucy Hall Hartley: University of Arizona; Masha Fedzechkina: University of Arizona

P-2-370 Optimal nudging, Poster Presenter: Mathew Hardy, Authors: Frederick Callaway: Princeton University; Mathew Hardy: Princeton University; Tom Griffiths: Princeton University

P-2-371 Children's use of linguistic and non-linguistic negation in reasoning by the disjunctive syllogism, Poster Presenter: Myrto Grigoroglou, Authors: Myrto Grigoroglou: University of Toronto; Patricia Ganea: University of Toronto

P-2-372 Variation in surface features improves recognition of common magnitude relations, Poster Presenter: Priya B. Kalra, Authors: Priya B. Kalra: University of Wisconsin-Madison; Emma Lazaroff: University of Wisconsin-Madison; Percival Matthews: University of Wisconsin-Madison

P-2-373 Increasing diversity of contrast examples decreases generalization from a probabilistic target set, Poster Presenter: David A. Bosch, Authors: David A. Bosch: New York University

P-2-374 Adding biological constraints to deep neural networks reduces their capacity to learn unstructured data, Poster Presenter: Christian Tsvetkov, Authors: Christian Tsvetkov: University of Bristol; Gaurav Malhotra: University of Bristol; Benjamin D Evans: University of Bristol; Jeff Bowers: University of Bristol

P-2-375 Consideration of alternative outcomes of psychological studies: Some evidence for transfer, Poster Presenter: Edward Munnich, Authors: Edward Munnich: University of San Francisco; Dana-Lis Bittner: University of San Francisco; Jasmine West: University of San Francisco; Megan Schneider: University of San Francisco; Arlisé Tuiasosopo: University of San Francisco; Wilson Cobb: University of San Francisco; Milo Alexander Martinez: University of San Francisco

P-2-376 Visual attention and real-world decision making: Sharing photos on social media, Poster Presenter: Shawn Fagan, Authors: Shawn Fagan: Indiana University; Lauren Wade: Indiana University; Kurt Hugenberg: Indiana University; Apu Kapadia: Indiana University; Bennett I. Bertenthal: Indiana University

P-2-377 Accurate representation for spatial cognition using grid cells, Poster Presenter: Nicole Sandra-Yaffa Dumont, Authors: Nicole Sandra-Yaffa Dumont: University of Waterloo; Chris Eliasmith: University of Waterloo

P-2-378 Implicit structure in sensory metaphors of Personality, Poster Presenter: Frank Durgin, Authors: Frank Durgin: Swarthmore college ; Kiera Parece: Swarthmore College; Shelby Billups: Swarthmore College; Paul Thibodeau: Oberlin College

P-2-379 Which sentence embeddings and which layers encode syntactic structure?, Poster Presenter: M Alex Kelly, Authors: M Alex Kelly: Pennsylvania State University; Yang Xu: San Diego State University; Jesus G Calvillo: The Pennsylvania State University; David Reitter: Google Research

P-2-380 Finding probabilistic context-free grammar in Chinese writing system, Poster Presenter: Hao Sun, Authors: Hao Sun: Astound.AI; Yanwei Jin: University at Buffalo

P-2-381 Dynamic control under changing goals, Poster Presenter: Zach Davis, Authors: Zach Davis: New York University; Neil R Bramley: University of Edinburgh; Bob Rehder: New York University; Todd M Gureckis: New York University



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- P-2-382 *Certain to be surprised: A preference for novel causal outcomes develops in early childhood***, Poster Presenter: Mariel Goddu, Authors: Mariel Goddu: UC Berkeley; Caren M. Walker: University of California San Diego
- P-2-383 *Mental imagery – Eyes open and shut***, Poster Presenter: Michael G. Allen, Authors: Michael G. Allen: University of California San Diego; David Kirsh: University of California San Diego
- P-2-384 *Algebra decoded: individual differences in strategy selection when solving for 'x'***, Poster Presenter: Jeffrey K. Bye, Authors: Jeffrey K. Bye: University of Minnesota; Rina Harsch: University of Minnesota; Sashank Varma: University of Minnesota
- P-2-385 *Jargon jinx: An early bias toward opaque explanations***, Poster Presenter: Amanda McCarthy, Authors: Amanda McCarthy: Yale University; Frank Keil: Yale University
- P-2-386 *Hierarchical inferences support systematicity in the lexicon***, Poster Presenter: Matthias Hofer, Authors: Matthias Hofer: Massachusetts Institute of Technology; Tessa Verhoef: Leiden Institute of Advanced Computer Science; Roger Levy: Massachusetts Institute of Technology
- P-2-387 *Leveraging machine learning to automatically derive robust planning strategies from biased models of the environment***, Poster Presenter: Anirudha Kementur, Authors: Anirudha Kementur: Max Planck Institute for Intelligent Systems; Yash Raj Jain: Max Planck Institute for Intelligent Systems; Aashay Mehta: Max Planck Institute for Intelligent Systems; Frederick Callaway: Princeton University; Saksham Consul: Max Planck Institute for Intelligent Systems; Jugoslav Stojcheski: Max Planck Institute for Intelligent Systems; Falk Lieder: Max Planck Institute for Intelligent Systems
- P-2-388 *Pictorial depth cues in young children's drawings of layouts and objects***, Poster Presenter: Théo Morfioisse, Authors: Théo Morfioisse: New York University; Todd M Gureckis: New York University; Moira Rose Dillon: New York University
- P-2-389 *Exploring category structure in children and adults***, Poster Presenter: Pablo Leon Villagra, Authors: Pablo Leon Villagra: University of Edinburgh; Isaac Ehrlich: University of Toronto; Chris Lucas: University of Edinburgh; Daphna Buchsbaum: University of Toronto
- P-2-390 *Children's mathematical strategy choices are not influenced by number magnitude***, Poster Presenter: Susan Wagner Cook, Authors: Susan Wagner Cook: University of Iowa; Andy Mistak: University of Iowa
- P-2-391 *Differential effect of blocked and interleaved study on category learning by classification and inference***, Poster Presenter: Yinjie Yao, Authors: Yinjie Yao: University of Macau; Sophia W Deng: University of Macau
- P-2-392 *A Grounded framework of cognition for teaching, learning, and assessment in higher Education***, Poster Presenter: Tobias Moritz Halbherr, Authors: Tobias Moritz Halbherr: ETH Zurich
- P-2-393 *A task and motion approach to the development of planning***, Poster Presenter: João Loula, Authors: João Loula: Massachusetts Institute of Technology; Kelsey R Allen: Massachusetts Institute of Technology; Josh Tenenbaum: Massachusetts Institute of Technology



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P-2-394 How does simulating aspects of primate infant visual development inform training of CNNs?, Poster Presenter: Shantanu Jaiswal, Authors: Shantanu Jaiswal: Agency for Science, Technology and Research; Dongkyu Choi: Agency for Science, Technology and Research; Fernando Basura: Agency for Science, Technology and Research

P-2-395 Discovering conceptual hierarchy through explicit and implicit cues in child-directed speech, Poster Presenter: Abdellah Fourtassi, Authors: Abdellah Fourtassi: Aix-Marseille University; Kyra Wilson: Stanford University; Michael C. Frank: Stanford University

P-2-396 Forms of distributed curiosity in the collaborative exploration of unknown environments by artificial agents, Poster Presenter: Luís Macedo, Authors: Luís Macedo: University of Coimbra

P-2-397 How Hong Kong preschoolers perceive Chinese characters: Are there any relationships between the effect of HP and literacy ability?, Poster Presenter: Ronald Chan, Authors: Karen Wong: The Education University of Hong Kong; Ronald Chan: The Education University of Hong Kong; Ricky Van-yip Tso: The Education University of Hong Kong

P-2-398 How many observations is one generic worth?, Poster Presenter: Michael Henry Tessler, Authors: Michael Henry Tessler: Massachusetts Institute of Technology; Sophie Bridgers: Stanford University; Josh Tenenbaum: Massachusetts Institute of Technology

P-2-399 Whom will Granny thank? Thinking about what could have been informs children's inferences about relative helpfulness, Poster Presenter: Sophie Bridgers, Authors: Sophie Bridgers: Stanford University; Chuyi Yang: Stanford University; Tobias Gerstenberg: Stanford University; Hyowon Gweon: Stanford University

P-2-400 Bootstrapping an imagined we for cooperation, Poster Presenter: Ning Tang, Authors: Ning Tang: University of California, Los Angeles; Stephanie Stacy: University of California, Los Angeles; Minglu Zhao: University of California, Los Angeles; Gabriel Marquez: University of California, Los Angeles; Tao Gao: University of California, Los Angeles



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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, Authors: Sean C Kugele: University of Memphis; Stan Franklin: University of Memphis

P-3-402 The plausible impossible: Graded notions of impossibility across Cultures, Poster Presenter: Andrew Shtulman, Authors: Tianwei Gong: Beijing Normal University; Andrew Shtulman: Occidental College

P-3-403 When me is mine: An embodied origin of psychological ownership?, Poster Presenter: Luca Tummolini, Authors: Aurora De Bortoli Vizioli: Italian National Research Council; Anna Borghi: Sapienza University of Rome; Luca Tummolini: National Research Council of Italy

P-3-404 Gendered robots can change children’s gender stereotyping, Poster Presenter: Andrew G Young, Authors: Kallyn Song-Nichols: Occidental College; Andrew G Young: Northeastern Illinois University

P-3-405 The limits of learning to learn, Poster Presenter: Steven Phillips, Authors: Steven Phillips: National Institute of Advanced Industrial Science and Technology

P-3-406 Calibrating trust in autonomous systems in a dynamic environment, Poster Presenter: Kazuo Okamura, Authors: Kazuo Okamura: SOKENDAI (The Graduate University for Advanced Studies); Seiji Yamada: National Institute of Informatics

P-3-407 Infants relax in response to unfamiliar foreign lullabies, Poster Presenter: Mila Bertolo, Authors: Constance Bainbridge: Harvard University; Julie Youngers: Harvard University; Mila Bertolo: Harvard University; S. Atwood: Harvard University; Lidya Yurdum: Harvard University; Kelsie Lopez: Harvard University; Feng Xing: Harvard University; Alia Martin: Victoria University of Wellington; Samuel Mehr: Harvard University

P-3-408 The spatial arrangement method of measuring similarity can capture high-dimensional, semantic structures, Poster Presenter: Russell Richie, Authors: Russell Richie: University of Pennsylvania; Bryan White: New Mexico State University; Sudeep Bhatia: University of Pennsylvania; Michael C Hout: New Mexico State University

P-3-409 Developmental differences in information sampling effort, Poster Presenter: Jesse Niebaum, Authors: Jesse Niebaum: University of California, Davis; Anne-wil Kramer: University of Amsterdam; Hilda Huizenga: University of Amsterdam; Wouter van den Bos: University of Amsterdam

P-3-410 The impact of speech disfluencies on the believability and recall of sentences, Poster Presenter: Sarah A Bibyk, Authors: Sarah A Bibyk: Air Force Research Laboratory; Lisa Fazio: Vanderbilt University; Duane Watson: Vanderbilt University

P-3-411 The effect of knowledge about a group on perceived group variability and certainty about stereotype-based Inferences, Poster Presenter: Thalia Vratsidis, Authors: Thalia Vratsidis: University of Toronto; William Cunningham: University of Toronto



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P-3-412 A study of hand manipulation and spatial tasks in which preschool girls perform well., Poster Presenter: Professor Mitsuru Noda, Authors: Mitsuru Noda: Edogawa University

P-3-413 Characteristics of visualizations and texts in elementary school biology Books, Poster Presenter: David Menendez, Authors: David Menendez: University of Wisconsin-Madison; Taylor M Johnson: University of Wisconsin-Madison; Ryan Hassett: University of Wisconsin-Madison; Ashley Haut: University of Wisconsin-Madison; Olympia N. Mathiapparanam: University of Wisconsin-Madison; Martha W Alibali: University of Wisconsin-Madison; Karl Rosengren: University of Rochester

P-3-414 Are all framing effects created equal? Relationships between risky choice framing, metaphor framing, and language, Poster Presenter: Paul Thibodeau, Authors: Paul Thibodeau: Oberlin College; Stephen Flusberg: Purchase College, SUNY

P-3-415 Decision-making under uncertainty in major depression patients, Poster Presenter: Xin Song, Authors: Xin Song: University of Minnesota, Twin Cities; Mathi Manavalan: University of Minnesota, Twin Cities; Iris Vilares: University of Minnesota

P-3-416 QuLBIT: Quantum-like Bayesian inference technologies for cognition and decision, Poster Presenter: Catarina Moreira, Authors: Catarina Moreira: Queensland University of Technology; Matheus Hammes: Queensland University of Technology; Rasim Serdar Kurdoglu: Bilkent University; Peter Bruza: Queensland University of Technology

P-3-417 Modulating the coherence effect in causal-based processing, Poster Presenter: Nicolas Marchant, Authors: Nicolas Marchant: Universidad Adolfo Ibáñez; Sergio E. Chaigneau: Universidad Adolfo Ibáñez

P-3-418 How can we access children's basic academic skills? The possibility of "corrected academic skills" via an alternative approach, Poster Presenter: Maiko Takahashi, Authors: Maiko Takahashi: University of Tokyo; Rumi Hirabayashi: University of Tokyo; Kenryu Nakamura: University of Tokyo

P-3-419 Intentional information sharing promotes cumulative culture relative to inadvertent behavioural cues: an experimental demonstration, Poster Presenter: Gemma Mackintosh, Authors: Gemma Mackintosh: University of Stirling; Mark Atkinson: University of Stirling; Christine A. Caldwell: University of Stirling

P-3-420 Promoting relational responding by varying presentation conditions, Poster Presenter: Graduate Researcher Mercury K Mason, Authors: Mercury K Mason: Binghamton University; Kenneth Kurtz: Binghamton University

P-3-421 May I have your attention? Testing a subjective attention scale, Poster Presenter: Matthew Brian Welsh, Authors: Matthew Brian Welsh: University of Adelaide

P-3-422 Modeling gestalt visual reasoning on raven's progressive matrices using generative image inpainting techniques, Poster Presenter: Tianyu Hua, Authors: Tianyu Hua: Vanderbilt University; Maithilee Kunda: Vanderbilt University

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, Authors: Joan Danielle K. Ongchoco: Yale University; Julian Jara-Ettinger: Yale University



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P-3-424 Learning the internal structure of novel categories, Poster Presenter: Sarah Solomon, Authors: Sarah Solomon: University of Pennsylvania; Anna Schapiro: University of Pennsylvania

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, Authors: Gabriel Blanco-Gomez: University of Toronto; Simon De Deyne: University of Melbourne; Álvaro Cabana: Universidad de la República; Blair Armstrong: University of Toronto

P-3-426 Enhancing cognitive assessment through multimodal sensing: A case study using the block design Test, Poster Presenter: Seunghwan Cha, Authors: Seunghwan Cha: Vanderbilt University; James Ainooson: Vanderbilt University; Eunji Chong: Georgia Institute of Technology; Isabelle Soulières: University of Quebec at Montreal; James M. Rehg: Georgia Institute of Technology; Maithilee Kunda: Vanderbilt University

P-3-427 Biasing moral decisions using eye movements: Replication and simulation, Poster Presenter: James Benjamin Falandays, Authors: James Benjamin Falandays: University of California, Merced; Michael Spivey: UC Merced

P-3-428 Cognitive machine theory of mind, Poster Presenter: Thuy Ngoc Nguyen, Authors: Thuy Ngoc Nguyen: Carnegie Mellon University; Cleotilde Gonzalez: Carnegie Mellon University

P-3-429 Effects of battle and journey metaphors on charitable donations for cancer patients, Poster Presenter: Alex Liebscher, Authors: Alex Liebscher: University of California San Diego; Sean Trott: University of California San Diego; Benjamin Bergen: University of California San Diego

P-3-430 Euphemism and gender: A computational inquiry, Poster Presenter: Anna Kapron-King, Authors: Anna Kapron-King: University of Toronto; Yang Xu: University of Toronto

P-3-431 Predicting difficulty with learning in the mathematics Classroom: The usefulness of heart rate variability, Poster Presenter: Kathryn deVries, Authors: Kathryn deVries: Temple University; Julie L. Booth.: Temple University

P-3-432 Dynamics of spatio-temporal scope of attention: Temporal correlations in reaction time data, Poster Presenter: Devpriya Kumar, Authors: Devpriya Kumar: Indian Institute of Technology; Akanksha Malik: Indian Institute of Technology

P-3-433 Evidence for representation of symbolic associations and Negation logical operator in 4 mo old infants, Poster Presenter: Milad Ekramnia, Authors: Milad Ekramnia: Neurospin; Ghislaine Dehaene: Neurospin

P-3-434 Cognitive offloading increases false recall., Poster Presenter: Xinyi Lu, Authors: Xinyi Lu: University of Waterloo; Megan O. Kelly: University of Waterloo; Evan Risko: University of Waterloo

P-3-435 The early cue catches the word: how gesture supports cross-situational word learning, Poster Presenter: Rachael W Cheung, Authors: Rachael W Cheung: Lancaster University; Calum Hartley: Lancaster University; Padraic Monaghan: Lancaster University



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- P-3-436 Hemispheric asymmetries in "expert" processing of semantic relationships during reading**, Poster Presenter: Melissa Troyer, Authors: Melissa Troyer: Western University; Marta Kutas: University of California San Diego
- P-3-437 Gender gaps correlate with gender bias in social media word embeddings**, Poster Presenter: Scott E Friedman, Authors: Scott E Friedman: SIFT; Sonja Schmer-Galunder: SIFT; Anthony Chen: SIFT; Robert P. Goldman: SIFT; Michelle Ausman: SIFT
- P-3-438 Processing particularized pragmatic inferences under load**, Poster Presenter: Margarita Ryzhova, Authors: Margarita Ryzhova: Saarland University; Vera Demberg: Saarland University
- P-3-439 A cognitive computational model of mindsets**, Poster Presenter: Miss Anne Lene Sax, Authors: Anne Lene Sax: University of Bristol; Andrei Cimpian: New York University; Wei Ji Ma: New York University
- P-3-440 Contrasting RNN-based and simulation-based models of human physical parameter inference**, Poster Presenter: Héctor Otero Mediero, Authors: Héctor Otero Mediero: University of Edinburgh; Neil R Bramley: University of Edinburgh
- P-3-441 Identifying the bounds of peripersonal space with phase transition methods**, Poster Presenter: Milou Huijsmans, Authors: Milou K. Huijsmans: Tilburg University; Travis J. Wiltshire: Tilburg University
- P-3-442 Young children do not anticipate that sunk costs lead to irrational choices**, Poster Presenter: Claudia G. Sehl, Authors: Claudia G. Sehl: University of Waterloo; Ori Friedman: University of Waterloo; Stephanie Denison: University of Waterloo
- P-3-443 Analogy as nonparametric bayesian inference over relational systems**, Poster Presenter: Ruairidh McLennan Battleday, Authors: Ruairidh McLennan Battleday: Princeton University; Tom Griffiths: Princeton University
- P-3-444 Interactional context affects estimates of MLU based on words and morphemes**, Poster Presenter: Olivier Rüst, Authors: Olivier Rüst: University of Zürich; Nicholas Lester: University of Zürich
- P-3-445 Individual working memory capacity moderates the power effect on cognitive task performance**, Poster Presenter: Leila Marcia Straub, Authors: Leila Marcia Straub: ETH Zurich
- P-3-446 What is a choice in reinforcement learning?**, Poster Presenter: Milena Rmus, Authors: Milena Rmus: University of California, Berkeley; Anne GE Collins: University of California, Berkeley
- P-3-447 A spiking neural architecture for conscious chaining of mental operations**, Poster Presenter: Hugo Chateau-Laurent, Authors: Hugo Chateau-Laurent: Radboud University; Chris Eliasmith: University of Waterloo; Serge Thill: Radboud University



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P-3-448 Effects of voiced initial consonants in japanese sound-symbolic Words: Experiments 1 and 2, Poster Presenter: Akari Koda, Authors: Akari Koda: Hiroshima University; Eisuke Osawa: Hiroshima University; Kyonosuke Handa: Hiroshima University; Shushi Namba: Hiroshima University; Xinyi Liu: Hiroshima University; Yutaka Haramaki: Hiroshima University; Toshimune Kambara: Hiroshima University

P-3-449 What remains of "belief bias" once we generalise logic to probabilities?, Poster Presenter: Nicole Cruz, Authors: Nicole Cruz: University of New South Wales; Brett Hayes: University of New South Wales; John C Dunn: University of Adelaide; Rachel Stephens: University of Adelaide

P-3-450 fMTP: A unifying computational framework of temporal preparation across time scales, Poster Presenter: Josh Manu Salet, Authors: Josh Manu Salet: University of Groningen; Wouter Kruijne: University of Groningen; Hedderik van Rijn: University of Groningen; Sander A. Los: Vrije Universiteit Amsterdam; Martijn Meeter: Vrije Universiteit

P-3-451 Audiovisual information processing in emotion recognition: An eye tracking study, Poster Presenter: Yueyuan Zheng, Authors: Yueyuan Zheng: University of Hong Kong; Janet Hsiao: University of Hong Kong

P-3-452 Learning sequential patterns from graphical programs, Poster Presenter: Anselm Rothe, Authors: Anselm Rothe: Max Planck Institute for Human Development; Eric Schulz: Max Planck Institute for Biological Cybernetics; Mathias Sablé-Meyer: Université Paris-Saclay; Josh Tenenbaum: Massachusetts Institute of Technology; Azzurra Ruggeri: Max Planck Institute for Human Development

P-3-453 The influence of negated causal information on pronoun disambiguation, Poster Presenter: Eyal Sagi, Authors: Eyal Sagi: University of St. Francis

P-3-454 The surprising consequences of engaging in contrastive explanation, Poster Presenter: Nadya Vasilyeva, Authors: Nadya Vasilyeva: Princeton University; Tania Lombrozo: Princeton University

P-3-455 The development of accent-based friendship preferences: Age and language exposure matter, Poster Presenter: Dr. Thomas St. Pierre, Authors: Thomas St. Pierre: University of Toronto Mississauga; Elizabeth Johnson: University of Toronto

P-3-456 A theory of bouletic reasoning, Poster Presenter: Hillary Harner, Authors: Hillary Harner: Naval Research Laboratory; Sangeet Khemlani: Naval Research Laboratory

P-3-457 A mechanistic account of model-free / model-based trade-off and its change across development, Poster Presenter: Aude Marie Carteron, Authors: Aude Marie Carteron: Birkbeck, University of London; Denis Mareschal: Birkbeck University of London; Richard P Cooper: Birkbeck, University of London

P-3-458 You're surprised at her success? Inferring competence from others' emotional responses to performance outcomes, Poster Presenter: Mika Asaba, Authors: Mika Asaba: Stanford University; Yang Wu: Stanford University; Brandon A Carrillo: Stanford University; Hyowon Gweon: Stanford University

P-3-459 The emergence and propagation of online slang, Poster Presenter: Zhewei Sun, Authors: Zhewei Sun: University of Toronto; Yizhan Jiang: University of Toronto; Yang Xu: University of Toronto



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P-3-460 Machine learning optimizes assessment: New Insights for the development of numerosity estimation, Poster Presenter: Sang Ho Lee, Authors: Sang Ho Lee: The Ohio State University; Dan Kim: The Ohio State University; John Opfer: The Ohio State University; Mark Pitt: The Ohio State University; Jay Myung: The Ohio State University

P-3-461 Relationship between social support and posttraumatic growth for Korean firefighters, Poster Presenter: Jeong Ryu, Authors: Hyejin Kim: Gachon University; Jasmin Jeeyeh Shin: Gachon University; Jeong Ryu: Seokyeong University

P-3-462 Are content effects out of sight? An eye-tracking study of arithmetic problem solving, Poster Presenter: Hippolyte Gros, Authors: Hippolyte Gros: University of Geneva; Emmanuel Sander: University of Geneva; Jean-Pierre Thibaut: University of Bourgogne Franche-Comté

P-3-463 Interpersonal physiological linkage is related to excitement during a joint task, Poster Presenter: Dr. Aiko Murata, Authors: Aiko Murata: Nippon Telegraph and Telephone Corporation; Shiro Kumano: Nippon Telegraph and Telephone Corporation; Junji Watanabe: NTT Communication Science Laboratories

P-3-464 Trust-related heuristics and biases: How do we trust healthcare systems?, Poster Presenter: Stephen Cantarutti, Authors: Stephen Cantarutti: City, University of London; Emmanuel Pothos: City, University of London

P-3-465 Infants' inferences about insides reveal parallel causal representations, Poster Presenter: Jonathan F. Kominsky, Authors: Jonathan F. Kominsky: Rutgers University - Newark; Yiping Li: Harvard University; Susan Carey: Harvard University

P-3-466 Sensitivity to ostension is not sufficient for pedagogical reasoning by toddlers, Poster Presenter: Emma C Tecwyn, Authors: Emma C Tecwyn: Birmingham City University; Amanda Seed: University of St Andrews; Daphna Buchsbaum: University of Toronto

P-3-467 The representation of recursive center-embedded and cross-serial sequences in children and adults, Poster Presenter: Stephen Ferrigno, Authors: Stephen Ferrigno: Harvard University; Susan Carey: Harvard University

P-3-468 Stereotypes decrease children's tendency to acknowledge constraints on Choice, Poster Presenter: Jamie Amemiya, Authors: Jamie Amemiya: University of California San Diego; Elizabeth Mortenson: Stanford University; Sohee Ahn: University of California San Diego; Caren M. Walker: University of California San Diego; Gail D. Heyman: University of California San Diego

P-3-469 When in Rome, do as Bayesians do: Statistical learning and parochial norms, Poster Presenter: Scott Partington, Authors: Scott Partington: Cornell University; Shaun Nichols: Cornell University; Tamar Kushnir: Cornell University

P-3-470 Mental inference: Mind perception as Bayesian model selection, Poster Presenter: Lukas Burger, Authors: Lukas Burger: Yale University; Julian Jara-Ettinger: Yale University

P-3-471 Culturally-constructed beliefs about physical and mental illness, Poster Presenter: Samantha McCann, Authors: Samantha McCann: College of the Holy Cross; Florencia K Anggoro: College of the Holy Cross



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- P-3-472 *The scaled target learning model: A novel computational model of the balloon analogue risk task***, Poster Presenter: Ran Zhou, Authors: Ran Zhou: The Ohio State University; Jay Myung: The Ohio State University; Mark Pitt: The Ohio State University
- P-3-473 *a process model of procrastination***, Poster Presenter: Peiyuan Zhang, Authors: Peiyuan Zhang: New York University; Wei Ji Ma: New York University
- P-3-474 *Inducing preference reversals by manipulating revealed preferences***, Poster Presenter: Harish Balakrishnan, Authors: Harish Balakrishnan: Indian Institute of Technology; Shobhit Jagga: Indian Institute of Technology; Nisheeth Srivastava: Indian Institute of Technology
- P-3-475 *Commonality search as a way of facilitating creative thinking: A comparison with the alternative categorization task***, Poster Presenter: Mayu Yamakawa, Authors: Mayu Yamakawa: Nagoya University; Sachiko Kiyokawa: Nagoya University
- P-3-476 *Differences in implicit vs. explicit grammar processing as revealed by hierarchical weibull modeling of reaction times***, Poster Presenter: David Abugaber, Authors: David Abugaber: University of Illinois at Chicago
- P-3-477 *Risk preferences in option generation: Do risk-takers generate more risky courses of action?***, Poster Presenter: Meagan Padro, Authors: Meagan Padro: University of North Carolina at Chapel Hill; Mitra Mostafavi: University of North Carolina at Charlotte; Doug Markant: University of North Carolina at Charlotte
- P-3-478 *Limited domain structure for conjunction errors***, Poster Presenter: Ethan J. Ludwin-Peery, Authors: Ethan J. Ludwin-Peery: New York University
- P-3-479 *'Eye can reason'- How eye parameters marked one's performance in a visual reasoning task***, Poster Presenter: Pourush Sood, Authors: Kaustav Brahma: Indian Institute of Technology Kharagpur; Pourush Sood: Indian Institute of Technology Kharagpur; Rajlakshmi Guha: Indian Institute of Technology Kharagpur; Partha Pratim Chakraborty: Indian Institute of Technology Kharagpur
- P-3-480 *Categorical perception as inference under uncertainty: New evidence from color***, Poster Presenter: Sonnet Phelps and Amit Millo, Authors: Sonnet Phelps: University of California, Berkeley; Amit Millo: University of California, Berkeley; Kevin J. Holmes: Colorado College; Terry Regier: University of California, Berkeley
- P-3-481 *Effects of domain size during reference production in photo-realistic scenes***, Poster Presenter: Ruud Koolen, Authors: Ruud Koolen: Tilburg Center for Cognition and Communication; Emiel Krahmer: Tilburg University
- P-3-482 *What gives a diagnostic label value? Common use over informativeness***, Poster Presenter: Babak Hemmatian, Authors: Babak Hemmatian: Brown University; Sze-Yu Chan: Peking University; Steven Sloman: Brown University
- P-3-483 *Color categorization and naming in normal, deficient, and mixed populations using agent based modelling***, Poster Presenter: Rithwik J Cherian, Authors: Rithwik J Cherian: Indian Institute of Technology; Harish C Karnick: Indian Institute of Technology Kanpur
- P-3-484 *Sheer time spent expecting or maintaining a representation facilitates subsequent retrieval during sentence processing***, Poster Presenter: Hossein Karimi, Authors: Hossein Karimi: Pennsylvania State University; Michele Diaz: Pennsylvania State University; Eva Wittenberg: University of California San Diego



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P-3-485 *Modelling perceptual effects of phonology with ASR systems*, Poster Presenter: Bing'er Jiang, Authors: Bing'er Jiang: McGill University; Ewan Dunbar: CNRS - Université Paris Diderot - Sorbonne Paris Cité; Morgan Sonderegger: McGill University; Meghan Clayards: McGill University; Emmanuel Dupoux: INRIA

P-3-486 *Leftward visuospatial bias predicts children's reading fluency*, Poster Presenter: Debby Cheng, Authors: Debby Cheng: Princeton University; Sabine Kastner: Princeton University

P-3-487 *Impact of sleep deprivation on EEG markers of emotion regulation in young adults*, Poster Presenter: Cheng Li, Authors: Cheng Li: The Education University of Hong Kong; Esther Yuet Ying Lau: The Education University of Hong Kong; Janet Hsiao: University of Hong Kong; Jinxiao Zhang: Stanford University; Yeuk Ching Lam: the Education University of Hong Kong; Jihui Zhang: The Chinese University of Hong Kong; Lydia Ting Sum Yee: Education University of Hong Kong; Benjamin Rusak: Dalhousie University

P-3-488 *Interaction with context during recurrent neural network sentence processing*, Poster Presenter: Forrest Davis, Authors: Forrest Davis: Cornell University; Marten van Schijndel: Cornell University

P-3-489 *Computational cognitive requirements of random decision problems*, Poster Presenter: Juan Pablo Franco, Authors: Juan Pablo Franco: University of Melbourne; Karlo Doroc: University of Melbourne; Nitin Yadav: University of Melbourne; Peter Bossaerts: University of Melbourne; Carsten Murawski: University of Melbourne

P-3-490 *Entropy of sounds: Sonnets to battle rap*, Poster Presenter: Jordan A Ackerman, Authors: Jordan A Ackerman: UC Merced

P-3-491 *Gesture production and theory of mind: Effective disambiguation in communication through gesture*, Poster Presenter: Minju Kim, Authors: Minju Kim: University of California San Diego; Adena Schachner: University of California San Diego

P-3-492 *The effect of document structure on non-native readers in web document reading for information acquisition*, Poster Presenter: Sangmin Han, Authors: Sangmin Han: The University of Tokyo; Kyo Kageura: University of Tokyo

P-3-493 *Effects of coordination on perspective-taking: Evidence from eye-tracking*, Poster Presenter: Yipu Wei, Authors: Yipu Wei: Peking University; Yingjia Wan: Institute of Psychology, Chinese Academy of Sciences; Michael Tanenhaus: University of Rochester

P-3-494 *Differential modulation effects of music expertise on english and chinese sentence reading*, Poster Presenter: Weiyan Liao, Authors: Weiyan Liao: University of Hong Kong; Sara Tze Kwan Li: The Open University of Hong Kong; Yuke Wu: The university of Hong Kong; Janet Hsiao: University of Hong Kong

P-3-495 *The transformative potential of decisions*, Poster Presenter: Shahar Hechtlinger, Authors: Shahar Hechtlinger: Max Planck Institute for Human Development ; Christina Leuker: Max Planck Institute for Human Development; Ralph Hertwig: Max Planck Institute for Human Development

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, Authors: Simon De Deyne: University of Melbourne; Álvaro Cabana: Universidad de la República; Bing Li: New York University Shanghai; Qing Cai: New York University Shanghai; Meredith McKague: University of Melbourne



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- P-3-497 *Encoding or post encoding mechanisms invoke enhanced memory for event boundaries?***, Poster Presenter: Rujuta Pradhan, Authors: Rujuta Pradhan: Indian Institute of Technology, Kanpur; Devpriya Kumar: Indian Institute of Technology
- P-3-498 *Gesture and pause can facilitate chunking syntactic information in ambiguous phrases***, Poster Presenter: Harumi Kobayashi, Authors: Harumi Kobayashi: Tokyo Denki University
- P-3-499 *Does bilingual input hurt? A simulation of language discrimination and clustering using i-vectors***, Poster Presenter: Maureen de Seyssel, ENS-PSL/CNRS/EHESS/INRIA Authors: Maureen de Seyssel: ENS-PSL/CNRS/EHESS/INRIA; Emmanuel Dupoux: ENS-PSL/CNRS/EHESS/INRIA
- P-3-500 *Learning from explanations***, Poster Presenter: Lara Kirfel, Authors: Lara Kirfel: University College London; Thomas Icard: Stanford University; Tobias Gerstenberg: Stanford University
- P-3-501 *Toddlers assign word labels to multiple polysemous meanings***, Poster Presenter: Sammy Floyd, Authors: Sammy Floyd: Princeton University; Adele Goldberg: Princeton University; Casey Lew-Williams: Princeton University
- 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, Authors: Velisar Manea: Copenhagen University; Dora Kampis: University of Copenhagen; Charlotte Grosse Wiesmann: Max Planck Institute for Human Cognitive and Brain Sciences; Victoria Southgate: Copenhagen University
- P-3-503 *Social learning with sparse belief samples***, Poster Presenter: Rabih Salhab, Authors: Rabih Salhab: Massachusetts Institute of Technology; Amir Ajorlou: Massachusetts Institute of Technology; Ali Jadbabaie: Massachusetts Institute of Technology; Josh Tenenbaum: Massachusetts Institute of Technology
- P-3-504 *Balancing personal and social outcomes: Cultural differences in children's moral decision-making***, Poster Presenter: Yiqi Luo, Authors: Yiqi Luo: University of Toronto; Theodore C.K. Cheung: University of Toronto; Daphna Buchsbaum: University of Toronto
- P-3-505 *Strategy inference and switch detection method generalizes to category Learning***, Poster Presenter: Alexander Hough, Authors: Alexander Hough: Air Force Research Laboratory; Kevin Gluck: Air Force Research Laboratory; Michael Lee: University of California, Irvine
- P-3-506 *Self-reference effect for faces is mediated by attention***, Poster Presenter: Aditi Jublie, Authors: Aditi Jublie: Indian Institute of Technology Kanpur; Devpriya Kumar: Indian Institute of Technology
- 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, Authors: Anna Truzzi: Trinity College Dublin; Rhodri Cusack: Trinity College Dublin
- P-3-508 *Unsupervised categorization as similarity-based generalization***, Poster Presenter: Dr. John Clapper, Authors: John Clapper: California State University, San Bernardino; Matthew Appel: California State University; Bryan D. Alvarez: California State University
- P-3-509 *Prosodic features carry information about a question's intent***, Poster Presenter: Igor Bascandziev, Authors: Igor Bascandziev: Rutgers University; Patrick Shafto: Rutgers University - Newark; Elizabeth Bonawitz: Rutgers University - Newark



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P-3-510 *The picture guessing game: The role of feedback in active artificial language learning*, Poster Presenter: Felicity F. Frinsel, Authors: Felicity F. Frinsel: Cornell University; Fabio Trecca: Aarhus University; Morten H. Christiansen: Cornell University

P-3-511 *Investigating the structure of emotion concepts: Evidence from property generation*, Poster Presenter: Alexandra E Kelly, Authors: Alexandra E Kelly: Drexel University; Evangelia G. Chrysikou: Drexel University

P-3-512 *Cross-modal ratio abstraction in children*, Poster Presenter: Reem Tawfik, Authors: Reem Tawfik: University of Waterloo; Katherine White: University of Waterloo; Stephanie Denison: University of Waterloo

P-3-513 *Hands in thought and motion*, Poster Presenter: Johannes Lohmann, Authors: Johannes Lohmann: University of Tübingen; Martin V. Butz: University of Tuebingen

P-3-514 *Referent management in discourse: The accessibility of weak definites*, Poster Presenter: Jet Hoek, Authors: Andreas Brocher: University of Cologne; Frederike Weeber: University of Cologne; Jet Hoek: University of Cologne; Klaus von Heusinger: University of Cologne

P-3-515 *Using think-aloud protocols to explore students' use of knowledge forum analytic tools*, Poster Presenter: Leanne Ma, Authors: Leanne Ma: OISE/University of Toronto

P-3-517 *Do social cues promote cross-situational verb learning and retention?*, Poster Presenter: Crystal Lee, Authors: Crystal Lee: Princeton University; Casey Lew-Williams: Princeton University

P-3-518 *Artificial language learning: Combining syntax and Semantics*, Poster Presenter: Benjamin Wilson, Authors: Benjamin Wilson: Emory University; Lauren Haslam: Newcastle University; Fenna Poletiek: Leiden University; Christopher Petkov: Newcastle University

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, Authors: Micah Ketola: University of Washington; Andrea Stocco: University of Washington; Shelby Thompson: Spelman College; Tara Madhyastha: Amazon; Thomas Grabowski: University of Washington

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, Authors: Christopher M Lee: University of Waterloo; Sarah D McCrackin M.A.: University of Waterloo; Roxane, J. Itier: University of Waterloo; Myra A. Fernandes: University of Waterloo

P-3-521 *Social influence and informational independence*, Poster Presenter: Justin Sulik, Authors: Justin Sulik: Ludwig Maximillian University; Bahador Bahrami Bahrami: Ludwig Maximillian University; Ophelia Derooy: Ludwig Maximillian University

P-3-523 *Seeking meaning: Examining a cross-situational solution to learn action verbs using human simulation paradigm*, Poster Presenter: Yayun Zhang, Authors: Yayun Zhang: Indiana University; Andrei Amatuni: Indiana University; Ellis Cain: Indiana University; Chen Yu: Indiana University, Bloomington

P-3-524 *Punishment: Incentive or communication?*, Poster Presenter: Arunima Sarin, Authors: Arunima Sarin: Harvard University; Mark K Ho: Princeton University; Justin Martin: Boston College; Fiery Cushman: Harvard University



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- P-3-525 *Look before you leap: Quantitative tradeoffs between peril and reward in action understanding***, Poster Presenter: Nensi Gjata, Authors: Nensi Gjata: Harvard University; Tomer D. Ullman: Harvard University; Elizabeth Spelke: Harvard University; Shari Liu: Harvard University
- P-3-526 *Learning a generative model of human faces through inverse rendering***, Poster Presenter: Skylar Sutherland, Authors: Skylar Sutherland: Massachusetts Institute of Technology; Bernhard Egger: Massachusetts Institute of Technology; Josh Tenenbaum: Massachusetts Institute of Technology
- P-3-527 *Cross-domain adversarial reprogramming of a recurrent neural network***, Poster Presenter: Alexandra Maria Proca, Authors: Alexandra Maria Proca: Massachusetts Institute of Technology; Andrzej Banburski: Massachusetts Institute of Technology; Tomaso Poggio: Massachusetts Institute of Technology
- P-3-528 *What counts as seeing? Young children's understanding of perceptual reports***, Poster Presenter: Emory Davis, Authors: Emory Davis: Johns Hopkins University; Barbara Landau: Johns Hopkins University
- P-3-529 *Does looking time predict choice in domestic dogs? Examining visual attention in man's best friend***, Poster Presenter: Liyuzhi Dong, Authors: Liyuzhi Dong: University of Toronto; Julia Espinosa: University of Toronto; Daphna Buchsbaum: University of Toronto
- P-3-530 *Infant looking-time preferences: does an information-theoretic model of infant looking behaviour scale up?***, Poster Presenter: Alexis K. Black, Authors: Alexis K. Black: University of British Columbia; Janet Werker: University of British Columbia
- P-3-531 *Time flies: Hippocampal time cells represent the distant past with less resolution***, Poster Presenter: Rui Cao, Authors: Rui Cao: Boston University; Stephen Charczynski: Boston University; John Bladon: Brandeis University; Marc Howard: Boston University
- P-3-532 *Causality and self-signaling in economic games***, Poster Presenter: Matthew Cashman, Authors: Matthew Cashman: Massachusetts Institute of Technology; Drazen Prelec: Massachusetts Institute of Technology
- P-3-533 *English speakers produce and understand expletive Negation***, Poster Presenter: Yanwei Jin, Authors: Yanwei Jin: University at Buffalo; Jean-Pierre A. Koenig: University at Buffalo
- P-3-534 *Knowing when to quit: Children consider access to solutions when deciding whether to persist***, Poster Presenter: Alexandra Rett, Authors: Alexandra Rett: University of California San Diego; Caren M. Walker: University of California San Diego
- P-3-535 *Evidence for win-stay-lose-shift in puppies and adult dogs***, Poster Presenter: Molly Byrne, Authors: Molly Byrne: Boston College; Emily E Bray: University of Arizona; Evan Maclean: University of Arizona; Angie Johnston: Boston College
- 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, Authors: Andrea Caso: Birkbeck, University of London; Richard P Cooper: Birkbeck, University of London
- P-3-537 *Semantic adaptation in quantifier meanings in preschool aged children***, Poster Presenter: Sophie Regan, Authors: Sophie Regan: Stanford University; Sebastian Schuster: Stanford University; Judith Degen: Stanford University; Michael C. Frank: Stanford University



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- P-3-538 *Directional biases in durative inference***, Poster Presenter: Laura J Kelly, Authors: Laura J Kelly: Naval Research Laboratory; Sangeet Khemlani: Naval Research Laboratory
- P-3-539 *An emotionally intelligent actor model for virtual conference presenters***, Poster Presenter: Alexei V Samsonovich, Authors: Alexei V Samsonovich: National Research Nuclear University MEPhI; Alexander A. Eidlin: National Research Nuclear University MEPhI; Daria V. Tikhomirova: National Research Nuclear University MEPhI
- P-3-540 *Bayesian inference in dialogue***, Poster Presenter: Asya Achimova, Authors: Asya Achimova: University of Tübingen; Ella I. Eisemann: University of Tübingen; Martin V. Butz: University of Tuebingen
- P-3-541 *Enculturing cognition: integrating material culture in human cognitive evolution***, Poster Presenter: Larissa Mendoza Straffon, Authors: Larissa Mendoza Straffon: university of Bergen
- P-3-542 *Adventures in flatland: perceiving social interactions under physical dynamics***, Poster Presenter: Tianmin Shu, Authors: Tianmin Shu: Massachusetts Institute of Technology; Marta Kryven: Massachusetts Institute of Technology; Tomer D. Ullman: Massachusetts Institute of Technology; Josh Tenenbaum: Massachusetts Institute of Technology
- P-3-543 *What you didn't see: Prevention and generation in continuous time causal induction***, Poster Presenter: Tianwei Gong, Authors: Tianwei Gong: University of Edinburgh; Neil R Bramley: University of Edinburgh
- P-3-544 *The one-voice expert***, Poster Presenter: Lisa Evelyn Rombout, Authors: Lisa Evelyn Rombout: Tilburg University; Marie Postma: Tilburg University
- P-3-545 *Affect and syntactic anomaly***, Poster Presenter: Prof Veena Dhar Dwivedi, Authors: Veena Dhar Dwivedi: Brock University
- 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: Michael Gordon Collins, Authors: Michael Gordon Collins: Air Force Research Laboratory; Florian Sense: Infinite Tactics; Michael Krusmark: L-3 Communications; Tiffany Jastrzembski: Wright-Patterson Air Force Base
- P-3-547 *Emotional valence of narratives is preserved across multiple retellings***, Poster Presenter: Professor Fritz Breithaupt, Authors: Fritz Breithaupt: Indiana University; Binyan Li: Indiana University; John Kruschke: Indiana University
- P-3-548 *Tracking age-related cognitive decline: Insights from the detection of advertisements***, Poster Presenter: Raheleh Saryazdi, Authors: Raheleh Saryazdi: University of Toronto; Yvette Hou: McMaster University; Craig Chambers: University of Toronto
- P-3-549 *Investigation of attentional decay: Implications for instruction***, Poster Presenter: Karrie Godwin, Authors: Karrie Godwin: Kent State University; Freya Kaur: Kent State University
- 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, Authors: Elena Marie Silla: University of Wisconsin-Madison; Caroline Byrd Hornburg: Virginia Tech; Matthew Kloser: University of Notre Dame; Nicole M McNeil: University of Notre Dame



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P-3-551 *Perceiving unseen objects*, Poster Presenter: Katherine M Collins, Authors: Katherine M Collins: Massachusetts Institute of Technology; Josh Tenenbaum: Massachusetts Institute of Technology; Kevin A Smith: Massachusetts Institute of Technology

P-3-552 *Intelligence in humans, non-human animals, and machines*, Poster Presenter: Professor Oisin Deery, Authors: Oisin Deery: York University

P-3-553 *Representing typological prevalence in graph-based semantic maps*, Poster Presenter: Qichao Wu, Authors: Qichao Wu: Colorado College; Beth Malmskog: Colorado College; Kevin J. Holmes: Colorado College

P-3-554 *Food sharing gave birth to social networks*, Poster Presenter: Francisco Plana, Authors: Jorge Pérez: Universidad de Chile; Francisco Plana: Universidad de Chile

P-3-555 *Openness to fictional experience: Measuring readers' and viewers' narrative absorption as a function of personality*, Poster Presenter: Catalina Iricinschi, Authors: Catalina Iricinschi: University of the Arts; Zoe Christine Darazsdi: The University of the Arts

P-3-556 *Looking downward to the future: Chinese mind's eye in time space*, Poster Presenter: Yan Gu, Authors: Yeqiu Zheng: Tilburg University; Yan Gu: University College London; Rein Cozijn: Tilburg University; Marc Swerts: Tilburg University

P-3-557 *Epistemic beliefs, language, and sources: Interactive effects on belief and trust of scientific information*, Poster Presenter: Rina Harsch, Authors: Rina Harsch: University of Minnesota; Reese Butterfuss: University of Minnesota; Panayiota Kendeou: University of Minnesota

P-3-558 *Dissociating adaptation to word-specific and color-specific conflict frequency in the Stroop task*, Poster Presenter: Giacomo Spinelli, Authors: Giacomo Spinelli: University of Western Ontario; Stephen Lupker: University of Western Ontario

P-3-559 *Visual quality and lexical quality reduce readers' reliance on sentence context for word recognition*, Poster Presenter: Elizabeth R Schotter, Authors: Alex Sciuto: University of South Florida; Sara Milligan: University of South Florida; Elizabeth R Schotter: University of South Florida

P-3-560 *Designing referential descriptions for children, young adults, and computers: A comprehensive examination of talker informativity*, Poster Presenter: Julie Bannon, Authors: Julie Bannon: McMaster University; Raheleh Saryazdi: University of Toronto; Craig Chambers: University of Toronto

P-3-561 *Broad consistency but cross-linguistic variation in the structure of information in sentences*, Poster Presenter: Josef Klafka, Authors: Josef Klafka: Carnegie Mellon University ; Dan Yurovsky: Carnegie Mellon University

P-3-562 *Boundary extension in response to food: Exploring the role of appetitiveness*, Poster Presenter: Claire Salinas, Authors: Claire Salinas: University of Louisiana at Lafayette; Brooke O. Breaux: University of Louisiana at Lafayette; Kiara Martin: University of Louisiana at Lafayette

P-3-563 *An empirical estimate of the dimensionality of face space*, Poster Presenter: Jared Pincus, Authors: Jared Pincus: Stevens Institute of Technology; Jordan Suchow: Stevens Institute of Technology

P-3-564 *Evidence for a community of knowledge across culture*, Poster Presenter: Mae K Fullerton, Authors: Mae K Fullerton: Brown University; Steven Sloman: Brown University; Sze-Yu Chan: Peking University



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- P-3-565 Resource management across brain regions supports auditory and visual-spatial processing in older age: An ERSP study**, Poster Presenter: Melanie Turabian, Authors: Melanie Turabian: Carleton University; Kathleen Van Benthem: Carleton University; Chris M Herdman Dr.: Carleton University
- P-3-566 Resource-rational task decomposition to minimize planning costs**, Poster Presenter: Carlos Giovanni Correa, Authors: Carlos Giovanni Correa: Princeton University; Mark Ho: Princeton University; Frederick Callaway: Princeton University; Tom Griffiths: Princeton University
- P-3-567 Infants infer different types of social relations from giving and taking actions**, Poster Presenter: Denis Tatone, Authors: Denis Tatone: Central European University; Gergely Csibra: Central European University
- P-3-568 Investigating the role of student achievement goals in conceptual physics learning**, Poster Presenter: Michael S. Diamond, Authors: Michael Diamond: University of Pittsburgh; Timothy Nokes-Malach: University of Pittsburgh
- P-3-569 Describing and comprehending change in quantitative information**, Poster Presenter: Jie Gao, Authors: Jie Gao: Educational Testing service; James E. Corter: Columbia University
- P-3-570 Frequency-dependent regularization in constituent ordering preferences**, Poster Presenter: Zoey Liu, Authors: Zoey Liu: University of California, Davis; Emily Morgan: University of California, Davis
- P-3-571 The benefits of practice with interruptions is step-specific**, Poster Presenter: Kevin Zish, Authors: Kevin Zish: George Mason University; Malcolm McCurry: Harris Corporation; Greg Trafton: Naval Research Laboratory
- P-3-572 Dollar sense? The relationship between numeracy, financial management and estimation of cart total after shopping**, Poster Presenter: Lucy Cui, Authors: Lucy Cui: University of California, Los Angeles
- P-3-573 Where does the conceptual space-time asymmetry come from?**, Poster Presenter: Claire Augusta Bergey, Authors: Claire Augusta Bergey: The University of Chicago; Yağmur Deniz Kisa: University of Chicago; Daniel Casasanto: Cornell University; Dan Yurovsky: Carnegie Mellon University
- P-3-574 New insights from daylong audio transcripts of children's language environments**, Poster Presenter: Jessica L Montag, Authors: Jessica L Montag: University of Illinois, Champaign-Urbana
- P-3-575 Comparing the effects of frontal and temporal neurostimulation on second language learning**, Poster Presenter: Kinsey Bice, Authors: Kinsey Bice: University of Washington; Chantel Prat: University of Washington
- P-3-576 Quantitative analyses of gaze duration from the viewpoints of grounding acts, conversation topic, and linguistic Proficiency**, Poster Presenter: Ichiro Umata, Authors: Ichiro Umata: KDDI Research, Inc.; Koki Ijuin: AIST; Tsuneo Kato: Doshisha University; Seiichi Yamamoto: Doshisha University
- P-3-577 Semantic influences on emergent preferences of word order: Evidence from silent gesture**, Poster Presenter: Jida Jaffan, Authors: Jida Jaffan: University of Toronto; Gabrielle Klassen: University of Toronto; Jordan Ziqi Yang: University of Toronto; Daphna Heller: University of Toronto



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P-3-578 *Storage and computation of multimorphemic words in Turkish*, Poster Presenter: Rabia Ergin, Authors: Rabia Ergin: Boğaziçi; Emily Morgan: University of California, Davis; Timothy O'Donnell: McGill University

P-3-579 *An AHA! walks into a bar: Joke completion as a form of insight problem solving*, Poster Presenter: Alexander H Bower, Authors: Alexander H Bower: University of California, Irvine; Mark Steyvers: University of California, Irvine

P-3-580 *Exploring dynamic decision making strategies with recurrence quantification analysis*, Poster Presenter: Erin N McCormick, Authors: Erin N McCormick: Carnegie Mellon University; Leslie M Blaha: Air Force Research Laboratory; Cleotilde Gonzalez: Carnegie Mellon University

P-3-581 *The fine structure of surprise in intuitive physics: when, why, and how much?*, Poster Presenter: Kevin A Smith, Authors: Kevin A Smith: Massachusetts Institute of Technology; Lingjie Mei: MIT; Shunyu Yao: Princeton University; Jiajun Wu: Stanford University; Elizabeth Spelke: Harvard University; Josh Tenenbaum: Massachusetts Institute of Technology; Tomer D. Ullman: Harvard University

P-3-582 *Morphological parsing by foveal split: Evidence from anaglyphs*, Poster Presenter: Roberto G. de Almeida, Authors: Roberto G. de Almeida: Concordia University; Shirley Dumassais: Concordia University; Caitlyn Antal: Concordia University

P-3-583 *Characterizing the relationship between lexical and morphological development*, Poster Presenter: Mika Braginsky, Authors: Mika Braginsky: Massachusetts Institute of Technology; Virginia A Marchman: Stanford University; Michael C. Frank: Stanford University

P-3-584 *Abstract strategy learning underlies flexible transfer in physical problem solving*, Poster Presenter: Kelsey R Allen, Authors: Kelsey R Allen: Massachusetts Institute of Technology; Kevin A Smith: Massachusetts Institute of Technology; Ulyana Piterbarg: Massachusetts Institute of Technology; Robert Chen: Massachusetts Institute of Technology; Josh Tenenbaum: Massachusetts Institute of Technology

P-3-585 *Cognitive fluency and the spread of news on social media*, Poster Presenter: Jason Matthew Cruz Luna, Authors: Jason Matthew Cruz Luna: University of California, Los Angeles; Rick Dale: University of California, Los Angeles

P-3-586 *Order effects in one-shot causal generalization*, Poster Presenter: Bonan Zhao, Authors: Bonan Zhao: The University of Edinburgh; Neil R Bramley: University of Edinburgh

P-3-587 *Exact number concepts depend on language*, Poster Presenter: Benjamin Pitt, Authors: Benjamin Pitt: University of California, Berkeley; Edward Gibson: Massachusetts Institute of Technology; Steven Piantadosi: University of California, Berkeley

P-3-588 *Show or tell? Demonstration is more robust to changes in shared perception than explanation*, Poster Presenter: Ted Summers, Authors: Ted Summers: Princeton University; Mark Ho: Princeton University; Tom Griffiths: Princeton University

P-3-589 *The face inversion effect and the anatomical mapping from the visual field to the primary visual cortex*, Poster Presenter: Martha Gahl, Authors: Martha Gahl: University of California San Diego; Meilu Yuan: University of Illinois at Urbana-Champaign; Arun Sugumar: University of California San Diego; Garrison W Cottrell: University of California San Diego



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P-3-590 Influences of prior knowledge and recent history on visual working memory, Poster Presenter: Isabella Destefano, Authors: Isabella Destefano: University of San Diego ; Ed Vul: University of California San Diego; Timothy F. Brady: University of California San Diego

P-3-591 What else could happen? Two-, three-, and four-year-olds use variability information to infer novel causal outcomes, Poster Presenter: Mariel Goddu, Authors: Mariel Goddu: UC Berkeley; Caren M. Walker: University of California San Diego

P-3-592 Linguistic simplification in human-computer interaction: Implications for the cognitive foundations of language, Poster Presenter: Anastasia Smirnova, Authors: Anastasia Smirnova: San Francisco State University; Skyler Ilenstine: San Francisco State University; Lauren Baker: San Francisco State University

P-3-593 Verbal labels promote representational alignment in the absence of communication, Poster Presenter: Ellise Suffill, Authors: Ellise Suffill: University of Wisconsin-Madison; Gary Lupyan: University of Wisconsin-Madison

P-3-594 Similarity judgments determine consistency of implicit number conceptions across ages, Poster Presenter: Rachel Jansen, Authors: Rachel Jansen: University of California, Berkeley; Ruthe Foushee: University of California, Berkeley

P-3-595 Linguistic stability and change under small-scale egalitarian language contact: a mixture model approach, Poster Presenter: Chundra Cathcart, Authors: Chundra Cathcart: University of Zurich; Joanne Yager: Lund University

P-3-596 A re-implementation of a dynamic field theory model of mental maps using python and nengo, Poster Presenter: Rabea Turon, Authors: Rabea Turon: University of Freiburg; Paulina Friemann: University of Freiburg; Terrence C Stewart: University of Waterloo; Marco Ragni: University of Freiburg

P-3-597 Approximating mental representation of verbs using semantic graphs, Poster Presenter: Hao Sun, Authors: Hao Sun: Astound.AI

P-3-598 Modelling brain activity associated with metaphor processing with distributional semantic models, Poster Presenter: Vesna Djokic, Authors: Vesna Djokic: University of Amsterdam; Ekaterina Shutova: University of Amsterdam

P-3-599 On the malleability and stability of ignoring group-level effects, Poster Presenter: Momme von Sydow, Authors: Momme von Sydow: University of Siegen; Niels Braus: University of Heidelberg; Ulrike Hahn: Birkbeck, University of London

P-3-600 The relevance of subjective benefits in risky choice across ten domains of Life, Poster Presenter: Jana B Jarecki Jarecki, Authors: Jana Jarecki: University of Basel; Andreas Wilke: Clarkson University

P-3-601 Child-directed word associations reveal divergent semantic structure that improves models of early word learning, Poster Presenter: Christopher R Cox, Authors: Christopher R Cox: Louisiana State University; Ashlyn Suchand: Louisiana State University; Eileen Haebig: Louisiana State University

P-3-602 The language of causation, Poster Presenter: Ari Beller, Authors: Ari Beller: Stanford University; Erin Bennett: Stanford University; Tobias Gerstenberg: Stanford University

P-3-603 Memory enhancement from surprise: Investigating threshold and incremental accounts, Poster Presenter: Carla Macias, Authors: Carla Macias: Rutgers University-Newark; Elizabeth Bonawitz: Rutgers University-Newark



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P-3-604 Experienced effort depends on evaluation mode, Poster Presenter: Michelle Ashburner, Authors: Michelle Ashburner: University of Waterloo; Evan Risko: University of Waterloo

P-3-605 How speakers avoid gender ambiguous pronouns: A cross-linguistic study, Poster Presenter: Kumiko Fukumura, Authors: Kumiko Fukumura: University of Stirling; Sandra Villata: University of Connecticut; Celine Pozniak: Université Paris 7; Francesca Foppolo: University of Milano Bicocca; F.-Xavier Alario: Aix-Marseille Université, CNRS

P-3-606 Where for what: A meta-analysis for the category-specific activations for living/nonliving concepts in the past two decades, Poster Presenter: Lang Chen, Authors: Kimberly D Derderian: Santa Clara University; Xiaoqie Zhou: University of California, Irvine; Lang Chen: Santa Clara University

P-3-607 Changes in cortical networks during motor imagery and action observation of walking, Poster Presenter: Naotsugu Kaneko, Authors: Naotsugu Kaneko: The University of Tokyo; Hikaru Yokoyama: Tokyo University of Agriculture and Technology; Yohei Masugi: Tokyo International University; Katsumi Watanabe: Waseda University; Kimitaka Nakazawa: The University of Tokyo

P-3-608 Should we always log-transform looking time data in infancy research?, Poster Presenter: Angeline Sin Mei Tsui, Authors: Angeline Sin Mei Tsui: Stanford University; Michael C. Frank: Stanford University; Patricia É. Brosseau-Liard: University of Ottawa

P-3-609 Changes in cortical networks during motor imagery and action observation of walking, Poster Presenter: Mr. Naotsugu Kaneko Authors: Naotsugu Kaneko: The University of Tokyo; Hikaru Yokoyama: Tokyo University of Agriculture and Technology; Yohei Masugi: Tokyo International University; Katsumi Watanabe: Waseda University; Kimitaka Nakazawa: The University of Tokyo

P-3-610 Replicating L2 learning in a computational Model, Poster Presenter: Libby Barak, Authors: Libby Barak: Rutgers University; Scott Cheng-Hsin Yang: Rutgers University; Chirag Rank: Rutgers University; Patrick Shafto: Rutgers University - Newark

P-3-611 Dipole sources localization of alpha activity in EEG neurofeedback training, Poster Presenter: Jen-Jui Hsueh, Authors: Jen-Jui Hsueh: National Cheng Kung University; Fu-Zen Shaw: National Cheng Kung University

P-3-612 Visual Attention during E-Learning: Eye-tracking Shows that Making Salient Areas More Prominent Helps Learning in Online Tutors, Poster Presenter: Farnaz Tehrani, Authors: Farnaz Tehrani: Pennsylvanian state university; Frank E. Ritter: Pennsylvanian state university; Chungil Chae: Pennsylvania State University

P-3-613 Interleaving facilitates the rapid formation of distributed representations, Poster Presenter: Zhenglong Zhou Authors: Zhenglong Zhou: University of Pennsylvania; Marlie Tandoc: University of Pennsylvania; Dhairya Singh: University of Pennsylvania; Anna Schapiro: University of Pennsylvania

P-3-614 Simulating length and frequency effects across multiple tasks with the Bayesian model BRAID-Phon, Poster Presenter: Ali Saghiran Authors: Ali Saghiran: CNRS; Sylviane Valdois: CNRS et Université Grenoble Alpes; Julien Diard: CNRS



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P-3-615 A naturalistic fMRI investigation into the possible co-evolution of language and technology, Poster Presenter: Zara Anwarzai Authors: Zara Anwarzai: Indiana University; Lana M Ruck: Indiana University; Shelby S. J. Putt: Illinois State University; P. Thomas Schoenemann: Indiana University



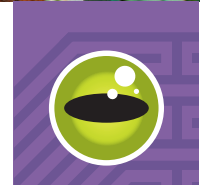
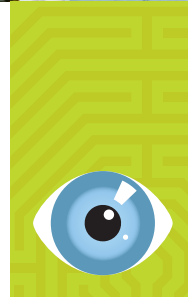
CogSci 2021



**Vienna, Austria:
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**COMPARATIVE
COGNITION**

Cognitive Animals

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