CogSci 2021
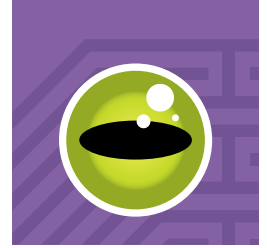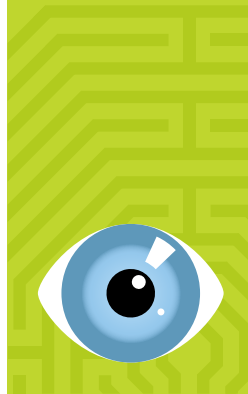
VIRTUAL

COMPARATIVE COGNITION
Cognitive Animals

Invited speakers
Julia Fischer
Onur Güntürkün
Erich Jarvis
Friederike Range

Invited panels
Cognition of time
Comparative and neural approaches to social cognition
Towards comparative aesthetics

Organizers
Tecumseh Fitch
Claus Lamm
Helmut Leder
Kristin Teßmar-Raible

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Marissa Ogren: University of California, Los Angeles; Catherine Sandhofer: University of California, Los Angeles

1-D-134   Detecting the involvement of agents through physical reasoning

Michael Lopez-Brau: Yale University; Joseph Kwon: Yale University; Breanna McBean: University of Michigan; Ilker Yildirim: Yale University; Julian Jara-Ettinger: Yale University

1-D-135   Using recurrent neural networks to understand human reward learning

Mingyu Song: Princeton University; Yael Niv: Princeton University; Mingbo Cai: University of Tokyo

1-D-136   Can retrieval practice of the testing effect increase self-efficacy in tests and reduce test anxiety, in 10- to 11-year-olds?

Helen Barsham: University of Cambridge; Michelle Ellefson: University of Cambridge

1-D-137   Cyclic reactivation of internal working memory representations of distinct feature dimensions

Rebecca R Schmid: University of Vienna; Ulrich Pomper: University of Vienna; Ulrich Ansorge: University of Vienna

1-D-138   Sampling heuristics for active function learning

Rebekah Gelpi: University of Toronto; Nayan Saxena: University of Toronto; George Lifchits: University of Toronto; Daphna Buchsbaum: Brown University; Chris Lucas: University of Edinburgh

1-D-139   Epistemic verbs produce spatial models

Sangeet Khemlani: Naval Research Laboratory

1-D-140   Evaluating general versus singular causal prevention

Simon Stephan: University of Göttingen ; Sarah Placì: Center for Mind/Brain Sciences; Michael R. Waldmann: University of Göttingen

1-D-141   Who's stopping you? – Using microanalysis to explore the impact of science anxiety on self-regulated learning operations

Stephen Hutt: University of Pennsylvania; Jaclyn Ocumpaugh: University of Pennsylvania; Juliana Ma. Alexandra L Andres: University of Pennsylvania; Anabil Munshi: Vanderbilt University; Nigel Bosch: University of Illinois at Urbana-Champaign; Ryan S. Baker: University of Pennsylvania; Yingbin Zhang: University of Illinois Urbana–Champaign; Luc Paquette: University of Illinois at Urbana-Champaign; Stefan Slater: University of Pennsylvania; Gautam Biswas: Vanderbilt University

1-D-142   The association between preschool teacher-child relationship and children's kindergarten outcomes

Tanya M Paes: Purdue University; Robert Duncan: Purdue University; David Purpura: Purdue University; Sara Schmitt: Purdue University

1-D-143   Naive Utility Calculus underlies the reproduction of disparities in social groups

Yuan Meng: University of California, Berkeley; Fei Xu: University of California, Berkeley

E - Linguistics

1-E-144 **Pragmatics of metaphor revisited: Formalizing the role of typicality and alternative utterances in metaphor understanding**

Alexandra Mayn: Saarland University; Vera Demberg: Saarland University

1-E-145 **We are what we say: Pragmatic violations have social costs**

Andrea Beltrama: University of Pennsylvania; Anna Papafragou: University of Pennsylvania

1-E-146 **Bilinguals infer in l2 similarly, but not in dual-language**

Aslı Yurtsever: Koç University; Tilbe Göksun: Koç University; Sami Gulgoz: Koç University

1-E-147 **The anatomy of discourse: Linguistic predictors of narrative and argument quality**

Sheridan Feucht: Brown University; Babak Hemmatian: Brown University; Rachel Avram: Brown University; Alex Wey: Brown University; Kate Spitalnic: University of Sussex; Muskaan Garg: Brown University; Carsten Eickhoff: Brown University; Ellie Pavlick: Brown University; Björn Sandstede: Brown University; Steven Sloman: Brown University

1-E-148 **Variation in spatial concepts: Different frames of reference on different axes**

Benjamin Pitt: University of California, Berkeley; Alexandra Carstensen: Stanford University; Edward Gibson: Massachusetts Institute of Technology; Steven Piantadosi: University of California, Berkeley

1-E-150 **Verbs are more metaphoric than nouns: Evidence from the lexicon**

Daniel C King: Northwestern University; Dedre Gentner: Northwestern University; Fanyi Mo: Colgate University

1-E-151 **Distributional learning of recursive structures**

Daoxin Li: University of Pennsylvania; Kathryn Schuler: University of Pennsylvania

1-E-152 **Native perception of non-native speech: Speaker accent mitigates penalization for language errors in non-native speech unless the listener is conscientious**

Hui Sun: University of Birmingham; Petar Milin: University of Birmingham; Dagmar Divjak: University of Birmingham

1-E-153 **Can losing the sense of smell affect odor language?**

Laura Speed: Radboud University; Behzad Iravani: Karolinska Institutet; Johan N Lundstrom: Karolinska Institutet; Asifa Majid: University of York

1-E-154 **The impact of child-directed language on children's lexical development**

Shiyu Dong: Tsinghua University; Yan Gu: University College London; Gabriella Vigliocco: University College London

1-E-155 **Regularisation, systematicity and naturalness in a silent gesture learning task**

Yasamin Motamedi: The University of Edinburgh; Lucie Wolters: The University of Edinburgh; Danielle Naegeli: Tilburg University; Marieke Schouwstra: University of Amsterdam; Simon Kirby: The University of Edinburgh

1-E-156 **Keep calm and move on: Interplay between morphological cue occurrence and frequency-based heuristics for sentence comprehension in Korean**

Chanyoung Lee: Yonsei University; Gyu-Ho Shin: Palacký University Olomouc

1-E-157　　　　Speak before you listen: Pragmatic reasoning in multi-trial language games

Les Sikos: Saarland University; Noortje J. Venhuizen: Saarland University; Heiner Drenhaus: Saarland University; Matthew W. Crocker: Saarland University

1-E-158　　　　Temporal gestures in Turkish metaphor explanations

Emir Akbuga: Koç University; Tilbe Göksun: Koç University

1-E-159　　　　Effects of global discourse coherence on local contextual predictions

Georgia-Ann Carter: University of Edinburgh; Paul Hoffman: University of Edinburgh

1-E-160　　　　Racial bias in emotion inference: An experimental study using a word embedding method

Jae Eun Park: Seoul National University; Yoon Kyung Lee: Seoul National University; Sowon Hahn: Seoul National University

1-E-161　　　　Slovaks in Czechia: L1 Attrition and L2 acquisition in two mutually intelligible languages

Adam Kříž: Faculty of Arts, Charles University; Jan Chromý: Faculty of Arts, Charles University

1-E-162　　　　Parents adaptively use anaphora during parent-child social interaction

Jasmine J Falk: Tufts University; Yayun Zhang: University of Texas at Austin; Matthias Scheutz: Tufts University; Chen Yu: University of Texas at Austin

1-E-163　　　　Los Angeles reading corpus of individual differences: Pilot distribution and analysis

Jesse Harris: University of California Los Angeles; Stephanie Rich: Univeristy of California Santa Cruz

1-E-164　　　　Extent of bilingual experience in modulating young adults' processing of social-communicative cues in a cue integration task: An eye-tracking study

Jia Wen Lee: Singapore University of Technology and Design; Xiaoqian Li: Singapore University of Technology and Design; Wei Quin Yow: Singapore University of Technology and Design

1-E-165　　　　Syntactic satiation is driven by speaker-specific adaptation

Jiayi Lu: Stanford University; Daniel Lassiter: Stanford University; Judith Degen: Stanford University

1-E-166　　　　Now or later: Representational convergence in simulated simultaneous and sequential bilingual learning contexts

John D. Patterson: The Pennsylvania State University; Elisabeth A. Karuza: The Pennsylvania State University

1-E-167　　　　Vertical directionality ratings as lexical norms for English verbs

John Hollander: University of Memphis; Andrew Olney: University of Memphis

1-E-168　　　　Seeing is believing: Testing an explicit linking assumption for visual world eye-tracking in psycholinguistics

Judith Degen: Stanford University; Leyla Kursat: Stanford University; Daisy Dorothy Leigh: Stanford University

1-E-169　　　　Using machine learning to predict bilingual language proficiency from reaction time priming data

Laura Matzen: Sandia National Laboratories; Christina Ting: Sandia National Laboratories; Mallory C Stites: Sandia National Laboratories

1-E-170   Do you speak 'kid'? The role of experience in comprehending child speech
Madeleine Yu: University of Toronto; Angela Cooper: University of Toronto; Elizabeth Johnson: University of Toronto

1-E-171   Exploring the influence of semantics on the German plural system: A wug study
Maria Heitmeier: Eberhard-Karls-Universität; Stella Frank: University of Trento

1-E-172   Oh, the Irony!: Interpersonal variation in the processing of foreign-accented and native irony
Veranika Puhacheuskaya: University of Alberta; Juhani Järvikivi: University of Alberta

1-E-173   Evidential meaning of English clause-embedding verbs
Natalia Talmina: Johns Hopkins University; Kyle Rawlins: Johns Hopkins University

1-E-174   War language in tweets of politicians, reporters, and medical experts: A focus on Covid-19
Paul Thibodeau: Oberlin College

1-E-175   Using the interpolated maze task to assess incremental processing in english relative clauses
Pranali Vani: Massachusetts Institute of Technology; Ethan Gotlieb Wilcox: Harvard University; Roger Levy: Massachusetts Institute of Technology

1-E-176   Regularization of nouns due to drift, not selection: An artificial-language experiment
Rafael Ventura: University of Pennsylvania; Joshua Plotkin: University of Pennsylvania; Gareth Roberts: University of Pennsylvania

1-E-177   Semantic networks of space and time between deaf signers and Spanish listeners
Roberto Aguirre: Universidad de la República; María Noel Macedo: Universidad de la República; Mauricio Castillo: Universidad de la República; Alejandro Fojo: Universidad de la República; Jorge Ricardo Vivas Dr.: Universidad Nacional del Mar del Plata

1-E-178   They is changing: Pragmatic and grammatical factors that license singular they
Sadie Camilliere: Swarthmore College; Amanda Izes: Swarthmore College; Olivia Leventhal: Swarthmore College; Daniel Grodner: Swarthmore College

1-E-179   Effects of syntactic and semantic predictability on sentence comprehension: A comparison between native and non-native speakers
Shaohua Fang: University of Pittsburgh; Enas Albasiri: CUNY Graduate Center

1-E-180   Associative learning of new word forms in a first language and gustatory stimuli
Yan Yan: Hiroshima University; Yutao Yang: Hiroshima University; Misa Ando: HIroshima University; Xinyi Liu: Hiroshima University; Toshimune Kambara: Hiroshima University

1-E-181   Does surprisal affect word learning? Evidence from seven languages
Yuguang Duan: University of Wisconsin-Madison; Gary Lupyan: University of Wisconsin - Madison

1-E-182   **The use of co-speech gestures in conveying Japanese phrases with verbs**

Yuki Handa: Graduate School of Tokyo Denki University; Tetsuya Yasuda: Tokyo Denki University; Harumi Kobayashi: Tokyo Denki University

1-E-183   **The influence of media exposure on children's evaluations of non-local accents**

Thomas St. Pierre: University of Toronto Mississauga; Elizabeth Johnson: University of Toronto

F - Neuroscience

1-F-184   **The N400 event-related potential component reflects a learning signal**

Alice Hodapp: University of Potsdam; Milena Rabovsky: University of Potsdam

1-F-185   **Biological motion perception in perceptual decision-making framework: ERP evidence in humans**

Berfin Aydın: Bilkent University; Burcu A. Urgen: Bilkent University

1-F-186   **'Kindergarten' versus 'Gartenkinder': EEG-evidence on the effects of familiarity and semantic transparency on German compounds**

Carsten Eulitz: University of Konstanz; Eva Smolka: University of Vienna

1-F-187   **Spectrotemporal cues and attention modulate neural networks for speech and music**

Felix Haiduk: University of Vienna; Lucas Benjamin: CEA; Benjamin Morillon: Aix-Mareille University; Philippe Albouy: Université Laval

1-F-188   **Complementary structure-learning neural networks for relational reasoning**

Jacob Russin: University of California, Davis; Maryam Zolfaghar: University of California, Davis; Seongmin Park: University of California, Davis; Erie D. Boorman: University of California, Davis; Randall C. O'Reilly: University of California, Davis

1-F-189   **White matter tract properties and mathematics skills: A longitudinal study of children born preterm and full-term**

Julia Anna Adrian: University of California, San Diego; Carolyn Sawyer: University of California, San Diego; Natacha Akshoomoff: University of California, San Diego

1-F-190   **Identifying local cognitive representations in the brain across age spans through voxel searchlights and representational similarity analysis**

Laura G Reno: Fordham University; Christian G Habeck: Columbia University; Yaakov Stern: Columbia University Irving Medical Center; Daniel D Leeds: Fordham University

1-F-191   **A neural dynamic process model of combined bottom-up and top-down guidance in triple conjunction visual search**

Raul Grieben: Ruhr-Universität Bochum; Gregor Schöner: Ruhr-Universität Bochum

1-F-192   **Hand constraint affects semantic processing of hand-manipulable objects: An fNIRS study**

Sae Onishi: Osaka Prefecture University; Kunihito Tobita: Osaka Prefecture University; Shogo Makioka: Osaka Prefecture University

1-F-193   **A task-optimized neural network model of decision confidence**

Taylor Webb: University of California Los Angeles; Kiyofumi Miyoshi: University of California Los Angeles; Tsz Yan So: The University of Hong Kong; Hakwan Lau: University of California Los Angeles

1-F-194   **Multiple items in working memory are cyclically activated at a theta-rhythm**

Ulrich Pomper: University of Vienna; Ulrich Ansorge: Faculty of Psychology, University of Vienna

1-F-195   **Distributed brain connectivity predicts individual differences in forgetting: A neurocomputational analysis of resting-state fMRI**

Yinan Xu: University of Washington; Chantel Prat: University of Washington; Florian Sense: University of Groningen; Hedderik van Rijn: University of Groningen; Andrea Stocco: University of Washington

G - Philosophy

1-G-196   **Cognitive argumentation and the selection task**

Emmanuelle Dietz: TU Dresden; Antonis Kakas: University of Cyprus

1-G-197   **The impact of ignorance beyond causation: An experimental meta-analysis**

Lara Kirfel: University College London; Jonathan Phillips: Dartmouth College

1-G-198   **Moral judgments and triage principles related to COVID-19 Pandemic**

Evgeniya Hristova: New Bulgarian University; Maurice Grinberg: New Bulgarian University

1-G-199   **What is a 'mechanism'? A distinction between two sub-types of mechanistic explanations**

Sehrang Joo: Yale University; Sami R Yousif: Yale University; Frank Keil: Yale University

H - Psychological science

1-H-200   **The impact of interface alignment structure on aesthetic appreciation and usability rating**

Aisha Futura Tüchler: University of Latvia; Liga Zarina: University Of Latvia; Jurgis Skilters: University of Latvia

1-H-201   **The role of categories in the formation of liking evaluations**

Alexander Kentaro Moore: University of Chicago Booth School of Business; Daniel Bartels: University of Chicago

1-H-202   **Children's use of causal structure when making similarity judgments**

Alexandra Rett: University of California, San Diego; Jamie Amemiya: University of California, San Diego; Micah Goldwater: University of Sydney; Caren M. Walker: University of California, San Diego

1-H-203   **Am I tone-deaf? Assessing pitch discrimination in 700,000 people**

Courtney B Hilton: Harvard University; Joshua Fiechter: Ball Aerospace & Technologies; Aaron S Benjamin: University of Illinois at Urbana-Champaign; Samuel Mehr: Harvard University

1-H-204   **Children's reasoning about hypothetical interventions to complex and dynamic causal systems**

Angela Nyhout: University of Kent; Hilary Sweatman: McGill University; Patricia Ganea: University of Toronto

1-H-205   **Malleability of intelligence through chess training-a two year empirical study**

Ebenezer Joseph: Emmanuel Chess Centre; Veena Easvaradoss: WCC; David Chandran: Emmanuel Chess Centre; Suneera Abraham: Emmanuel Chess Centre; Sweta Vaddadi: Emmanuel Chess Centre

1-H-206   **Dynamics of counterfactual retrieval**

Feiyi Wang: University of Pennsylvania; Ada Aka: University of Pennsylvania; Sudeep Bhatia: University of Pennsylvania

1-H-207   **Toward a comprehensive developmental theory for symbolic magnitude understanding**

Hyekyung Park: The Ohio State University; John Opfer: The Ohio State University

1-H-208   **East-west revisited: Is holistic thinking relational thinking?**

Junhao Zhang: Development of Psychology; Stella Christie: Tsinghua University

1-H-209   **Disgraced professionals: Revelation of immorality decreases evaluations of professionals' competence and contribution**

Junho Lee: University of California, Los Angeles; John Priniski: University of California, Los Angeles; Sebastian Valderrama: University of California, Los Angeles; Keith Holyoak: University of California, Los Angeles

1-H-210   **The effects of dyadic conversations on coronavirus-related belief change**

Madalina Vlasceanu: Princeton University; Alin Coman: Princeton University

1-H-211   **Structural comparisons of noun and verb networks in the mental lexicon**

Mengyang Qiu: University at Buffalo; Nichol Castro: University at Buffalo; Brendan Johns: McGill University

1-H-212   **Try smarter, not harder: Exploration and strategy diversity are related to infant persistence**

Mia Radovanovic: University of Toronto; Hannah Solby: University of Toronto; Antonia Soldovieri: University of Toronto; Jessica Sommerville: University of Toronto

1-H-213   **A unifying model of grapheme-color associations in synesthetes and controls**

Nicholas Root: University of Amsterdam; Romke Rouw: University of Amsterdam

1-H-214   **The mental representation of integers: Further evidence for the negative number line as a reflection of the natural number line**

Nicholas Vest: University of Wisconsin- Madison; Martha W Alibali: University of Wisconsin-Madison

1-H-215   **Verbal working memory capacity modulates category representation.**

Qianqian Wan: Ohio State University; Mengcun Gao: Ohio State University; Vladimir Sloutsky: Ohio State University

1-H-216   **Revising core beliefs in young children**

Rongzhi Liu: University of California, Berkeley; Fei Xu: University of California, Berkeley

1-H-217   **Association knowledge guides conjunctive predictions in novel situations**

Ru Qi Yu: the University of British Columbia; Jiaying Zhao: University of British Columbia

1-H-218   **Using causality to map difficulties in a qualitative physics problem**

Sara Jaramillo: University of Pittsburgh; Eric Kuo: University of Illinois Urbana-Champaign; Timothy Nokes-Malach: University of Pittsburgh; Benjamin Rottman: University of Pittsburgh

1-H-219   **Attentional strategies during category learning: an eye-tracking study**

Valentina A Bachurina: Higher School of Economics National Research University; Alexey Kotov: Higher School of Economics; Maria Zherdeva: Higher School of Economics

1-H-220   **A deep gaze into social and referential interaction**

Vidya Somashekarappa: University of Gothenburg; Christine Howes: University of Gothenburg; Asad Sayeed: University of Gothenburg

1-H-221   **The effect of semantic categorization on object location memory**

Xinyi Lu: University of Waterloo; Mona Zhu: University of Waterloo; Evan Risko: University of Waterloo

1-H-222   **Effects of interim testing and feature highlighting on natural category learning**

Yewon Kang: Yonsei University; Hyorim Ha: Yonsei University; Hee Seung Lee: Yonsei University

1-H-223   **Lay theories of manipulation: do consumers believe they are susceptible to marketers' trickery?**

Zarema Khon: University of Bath; Samuel Johnson: University of Bath; Haiming Hang: University of Bath

1-H-224   **Gender differences in face-based trait perception and social decision making**

Zoe W He: University of California, San Diego; Angela J Yu: University of California, San Diego

Poster Session 2

Wednesday, July 28, 2021: 17:20 – 19:00

A - AI, Computer science and Computer models

2-A-1   **Machine learning models for predicting, understanding, and influencing health perception**

Ada Aka: University of Pennsylvania; Sudeep Bhatia: University of Pennsylvania

2-A-2   **Explaining machine learned relational concepts in visual domains - effects of perceived accuracy on joint performance and trust**

Anna Magdalena Thaler: Cognitive Systems Group, University of Bamberg; Ute Schmid: University of Bamberg

2-A-3   **Can computers tell a story? Discourse structure in computer-generated text and humans**

Alex Wey: Brown University; Babak Hemmatian: Brown University; Rachel Avram: Brown University; Sheridan Feucht: Brown University; Kate Spitalnic: University of Sussex; Muskaan Garg: Brown University; Carsten Eickhoff: Brown Univeristy; Ellie Pavlick: Brown University; Björn Sandstede: Brown University; Steven Sloman: Brown University

2-A-4   Communicating uncertain beliefs with conditionals: Probabilistic modeling and experimental data
Britta Grusdt: Institute of Cognitive Science; Michael Franke: University of Osnabrück

2-A-5   Phonological interactions, process types, and minimum description length principles
Christopher Yang: Massachusetts Institute of TechnologY; Kevin Elllis: Cornell University

2-A-6   Latent event-predictive encodings through counterfactual regularization
Dania Humaidan: University of Tübingen; Sebastian Otte: University of Tübingen; Christian Gumbsch: University of Tübingen; Charley M Wu: University of Tübingen; Martin V. Butz: University of Tübingen

2-A-7   Capturing uncertainty in relational learning: A Bayesian model of discrimination-based transitive inference
Doug Markant: University of North Carolina at Charlotte

2-A-8   Learning ecological and artificial visual categories: rhesus macaques, humans, and machines
Drew Altschul: The University of Edinburgh; Gregory Jensen PhD: Columbia University; Herbert Terrace: Columbia University

2-A-9   Computational-neuroscientific correspondence of oscillating-TN SOM neural networks
Spyridon Revithis: University of New South Wales

2-A-10   What interventions can decrease or increase belief polarisation in a population of rational agents?
Piers Douglas Howe: University of Melbourne; Andrew Perfors: University of Melbourne; Keith James Ransom: University of Adelaide

2-A-11   Humans fail to outwit adaptive rock, paper, scissors opponents
Erik Brockbank: University of California, San Diego; Ed Vul: University of California, San Diego

2-A-12   Encouraging far-sightedness with automatically generated descriptions of optimal planning strategies: Potentials and Limitations
Frederic Becker: Max Planck Institute for Intelligent Systems; Julian Mateusz Skirzynski: Max Planck Institute for Intelligent Systems; Bas van Opheusden: Princeton University; Falk Lieder: Max Planck Institute for Intelligent Systems

2-A-13   Can deep convolutional neural networks learn same-different relations?
Guillermo Puebla: University of Edinburgh; Jeff Bowers: University of Bristol

2-A-14   Characterize artistic style based on the entropy rate of the imaginary stroke sequences
Ruimin Lyu: Jiangnan University; Hongcha Xing: Jiangnan University; Tianqin Zhang: Jiangnan University

2-A-15   Rise of QAnon: A mental model of good and evil stews in an echochamber
John Priniski: University of California, Los Angeles; Mason McClay: University of California, Los Angeles; Keith Holyoak: University of California, Los Angeles

2-A-16   Predicting memory errors with a bayesian model of concept generalization
Isabella Destefano: University of California San Diego ; Timothy F. Brady: University of California, San Diego; Ed Vul: University of California, San Diego

2-A-17   **Compositional processing emerges in neural networks solving math problems**
Jacob Russin: University of California, Davis; Roland Fernandez: Microsoft Research; Hamid Palangi: Microsoft Research; Eric Robert Rosen: Johns Hopkins Univesity; Nebojsa Jojic: Microsoft Research; Paul Smolensky: Microsoft; Jianfeng Gao: Microsoft Research

2-A-19   **Synchronising the emergence of institutions and value systems: a model of opinion dynamics mediated by proportional representation**
Jose Segovia: CNRS

2-A-20   **Which acoustic features support the language-cognition link in infancy: A machine-learning approach**
Joseph C.Y. Lau: Northwestern University; Alona Fyshe: University of Alberta; Sandra Waxman: Northwestern University

2-A-21   **Individual vs. Joint Perception: A pragmatic model of pointing as Smithian Helping**
Kaiwen Jiang: University of California, Los Angeles; Stephanie Stacy: University of California, Los Angeles; Adelpha Chan: University of California, Los Angeles; Chuyu Wei: University of California, Los Angeles; Federico Rossano: University of California

2-A-22   **A sequential sampling account of semantic relatedness decisions**
Peter M Kraemer: University of Basel; Dirk Wulff: University of Basel; Sebastian Gluth: University of Hamburg

2-A-23   **Human learning from artificial intelligence: Evidence from human go players' decisions after alphago**
Minkyu Shin: Yale University; Jin Kim: Yale University; Minkyung Kim: University of North Carolina Chapel Hill

2-A-24   **Utilizing ACT-R to investigate interactions between working memory and visuospatial attention while driving**
Moritz Held: Rijksuniversiteit Groningen; Jelmer Borst: Rijksuniversiteit Groningen; Anirudh Unni: Carl von Ossietzky Universität; Jochem Rieger: Carl von Ossietzky Universität

2-A-25   **Rewiring the wisdom of the crowd**
Jason W Burton: Birkbeck, University of London; Abdullah Almaatouq: Massachusetts Institute of Technology; M. Amin Rahimian: University of Pittsburgh; Ulrike Hahn: Birkbeck, University of London

2-A-26   **Modelling human communication as a rejection game**
Artemis A. Çapari BSc: University of Amsterdam; Giorgio Sbardolini: ILLC, University of Amsterdam

2-A-27   **Givenness hierarchy theoretic referential choice in situated contexts**
Poulomi Pal: Colorado School of Mines; Grace Clark: Colorado School of Mines; Tom Williams: Colorado School of Mines

2-A-28   **Younger and older speakers' use of linguistic redundancy with a social robot**
Raheleh Saryazdi: University of Toronto; Joanne Nuque: University of Toronto Mississauga; Craig Chambers: University of Toronto

2-A-29   LARC: Language annotated Abstraction and Reasoning Corpus

Sam Acquaviva: Massachusetts Institute of Technology; Yewen Pu: Autodesk Inc; Maxwell Nye: Massachusetts Institute of Technology; Catherine Wong: Massachusetts Institute of Technology; Michael Henry Tessler: Massachusetts Institute of Technology; Josh Tenenbaum: Massachusetts Institute of Technology

2-A-30   Modeling rules and similarity in colexification

Sammy Floyd: Princeton University; Kavindya Dalawella: Princeton University; Adele Goldberg: Princeton University; Casey Lew-Williams: Princeton University; Tom Griffiths: Princeton University

2-A-31   Inferring knowledge from behavior in search-and-rescue tasks

Scott Cheng-Hsin Yang: Rutgers University; Sean Anderson: Rutgers University; Pei Wang: Rutgers University; Chirag Rank: Rutgers University; Tomas Folke: Rutgers University; Patrick Shafto: Rutgers University

2-A-32   Recovering quantitative models of human information processing with differentiable architecture search

Sebastian Musslick: Princeton University

2-A-33   Are convolutional neural networks or transformers more like human vision?

Shikhar Tuli: Princeton University; Ishita Dasgupta: DeepMind; Erin Grant: U.C. Berkeley; Tom Griffiths: Princeton University

2-A-34   Modeling communication to coordinate perspectives in cooperation

Stephanie Stacy: University of California - Los Angeles; Chenfei Li: University of California - Los Angeles; Minglu Zhao: University of California - Los Angeles; Yiling Yun: University of California - Los Angeles; Qingyi Zhao: University of California - Los Angeles; Max Kleiman-Weiner: Massachusetts Institute of Technology; Tao Gao: University of California - Los Angeles

2-A-35   Scaffolded self-explanation with visual representations promotes efficient learning in early algebra

Tomohiro Nagashima: Carnegie Mellon University; Anna N. Bartel: University of Wisconsin, Madison; Stephanie Tseng: Carnegie Mellon University; Nicholas Vest: University of Wisconsin- Madison; Elena Marie Silla: University of Wisconsin-Madison; Martha W Alibali: University of Wisconsin-Madison; Vincent Aleven: Carnegie Mellon University

2-A-36   The role of clustering in the efficient solution of small Traveling Salesperson Problems

Vijay Marupudi: Georgia Institute of Technology; Rina Harsch: University of Minnesota; V. N. Vimal Rao: University of Minnesota-Twin Cities; Jeffrey K. Bye: University of Minnesota; Jimin Park: University of Minnesota; Sashank Varma: Georgia Tech

2-A-37   Making heads or tails of it: A competition–compensation account of morphological deficits in language impairment

Zara Harmon: University of Maryland; Libby Barak: Rutgers University; Patrick Shafto: Rutgers University - Newark; Jan Edwards: University of Maryland; Naomi H Feldman: University of Maryland

2-A-38   An emotional cognitive architecture in action

Alexei V Samsonovich: National Research Nuclear University "MEPhI"

B - Animal cognition and communication

2-B-39   **Primates evolved spectrally complex calls in compensation for reduction in olfactory cognition**
David M. Schruth Ph.D.: University of Washington

2-B-40   **Phylogenitic map of vocal learning in parrots**
Anastasia Krasheninnikova: Max-Planck-Institute for Ornithology; Merel Snijders: Wageningen University; Julie Carpenter: University of Vienna; Esha Haldar: Max Planck Institute for Ornithology; Auguste M.P. von Bayern: Max-Planck-Institute of Ornithology

2-B-41   **Chimpanzees seek help, but not strategically**
Hanna Schleihauf: University of California, Berkeley; Esther Herrmann: University of Portsmouth; Julia Fischer: German Primate Center; Jan Engelmann: University of California, Berkeley

2-B-42   **Ritualized commitment displays in humans and non-human primates**
Martin Lang: Masaryk University; Radek Kundt: Masaryk University

2-B-43   **Testing the 'inherent superiority hypothesis' in behavioural flexibility of grey squirrels**
Pizza Ka Yee Chow: University of Exeter

2-B-44   **The octopus: Implications for cognitive science**
Sidney Carls-Diamante: University of Konstanz

2-B-45   **Displacement and evolution: A neurocognitive and comparative perspective**
Edward Ruoyang Shi: University of Barcelona; Qing Zhang: Sun Yat-Sen University

2-B-46   **How do chimpanzees explore their environment prior to a risky decision?**
Lou Marie Haux: Adaptive Rationality, Max Planck Institute for Human Development; Jan Engelmann: University of California, Berkeley; Esther Herrmann: University of Portsmouth; Ralph Hertwig: Max Planck Institute for Human Development

2-B-47   **Speechless Reader Model: A neurocognitive model for human reading reveals cognitive underpinnings of baboon lexical decision behavior**
Benjamin Gagl: University of Vienna; Ivonne Weyers: University of Vienna; Jutta L. Mueller: University of Vienna

2-B-48   **More than nothing: Behavioural and neuronal correlates of numerosity zero in the carrion crow**
Maximilian E Kirschhock: Institute of Neurobiology, University of Tübingen; Helen M Ditz: Institute of Neurobiology, University of Tübingen; Andreas Nieder: Institute of Neurobiology, University of Tübingen

2-B-50   **Using videos and animations to study zebra finch social behaviors**
Nikhil Phaniraj: Indian Institute of Science Education and Research Pune; Sanjana Joshi: Indian Institute of Science Education and Research Pune; Raghav Rajan: Indian Institute of Science Education and Research Pune

2-B-52   **Sound production of Asian elephant high-frequency vocalisations**
Veronika Christine Beeck: University of Vienna; Angela Stoeger: University of Vienna

C - Cognitive science

2-C-53   **Student collaboration during code tracing activities**
Ronessa Dass: Carleton University; Kasia Muldner: Carleton University

2-C-54   **New exposure, no constraints: Semantic restrictions on novel nouns do not constrain adults' subsequent referent selections**
Alexander S LaTourrette: University of Pennsylvania; Charles Yang: U Penn; John Trueswell: University of Pennsylvania

2-C-55   **Distinctive features of emotion concepts**
Alexandra E. Kelly: Drexel University; Evangelia G. Chrysikou: Drexel University

2-C-56   **The subjective value of creative outputs: appropriate or original?**
Alizée Lopez-Persem: Institut du Cerveau (ICM), Sorbonne Université; Sarah Moreno-Rodriguez: Institut du Cerveau (ICM), Sorbonne University; Stella Guiet: Institut du Cerveau (ICM), Sorbonne University; Emmanuelle Volle: Sorbonne Université

2-C-57   **Selection, engagement, & enhancement: A framework for modeling visual attention**
Andrew Lovett: US Naval Research Laboratory; Will Bridewell: US Naval Research Laboratory; Paul Bello: US Naval Research Laboratory

2-C-58   **Distinct rhythms of joint and individual action: Evidence from an auditory sequence production paradigm**
Anna Zamm: Central European University; Stefan Debener: University of Oldenburg; Natalie Sebanz: Central European University

2-C-59   **In the blink of an eye? Evidence for a reduced attentional blink for eyes**
Laura Schmitz: Leibniz Universität Hannover; Basil Wahn: Leibniz Universität Hannover; Melanie Krüger: Leibniz Universität Hannover; Anne Böckler-Raettig: Leibniz Universität Hannover

2-C-60   **Modelling recognition in human puzzle solving**
Ben Prystawski: University of Toronto; Rebekah Gelpi: University of Toronto; Chris Lucas: University of Edinburgh; Daphna Buchsbaum: Brown University

2-C-61   **Limits to early mental state reasoning: Fourteen- to 15-month-old infants appreciate whether others can see objects, but not others' experiences of objects**
Brandon Matthew Woo: Harvard University; Elizabeth Spelke: Harvard University

2-C-62   **Interpretations of meaningful and ambiguous hand gestures from individuals with and without Autism Spectrum Disorder (ASD)**
Brianna E Cairney: Louisiana State University; Stan West: Louisiana State University ; Eileen Haebig: Louisiana State University; Heather D Lucas: Louisiana State University

2-C-63   **Specialization and selective social attention establishes the balance between individual and social learning**
Charley M Wu: University of Tübingen; Mark K Ho: Princeton University; Benjamin Kahl: Max Planck Institute for Human Development; Christina Leuker: Max Planck Institute for Human Development; Bjoern Meder: Health and Medical University Potsdam; Ralf Kurvers: MPI for Human Development

2-C-64   **Digitally training graph viewers against misleading bar charts**
Claudia Ramly: University of Wisconsin Madison; Ayon Sen: University of Wisconsin Madison; Ved Kale: University of Wisconsin Madison; Martina A. Rau: University of Wisconsin Madison; Jerry Zhu: University of Wisconsin Madison

2-C-65   **Individual differences in causal learning**
Laila Johnston: University of Central Florida; Noah Hillman: St. Olaf College; David Danks: Carnegie Mellon University

2-C-66   **Fifty shades of social cognition. How to capture the varieties of socio-cognitive abilities?**
Anna Strasser: Ludwig-Maximilians-Universität München

2-C-67   **Pointing north online: Using photographs of known environments to evaluate north pointing accuracy**
Tanvi Deshpande: Texas A&M University; Sungjoon Park: Texas A&M University; Heather Burte: Texas A&M University

2-C-68   **Learning rate and success as a function of code-switching strategies in the input**
Margreet Vogelzang: Univeristy of Cambridge; Ianthi M. Tsimpli: University of Cambridge; John Williams: University of Cambridge

2-C-69   **Gesture dynamics and therapeutic success in patient-therapist dyads**
Codrin Mironiuc: Tilburg University; Travis J. Wiltshire: Tilburg University; Aaron Likens: University of Nebraska at Omaha; Stine Steen Høgenhaug: Department of Anxiety and Personality Disorders; Marie Skaalum Bloch: Psychiatry Clinic North

2-C-70   **Creative foraging: Examining relations between foraging styles, semantic memory structure, and creative thinking**
Yoed Kenett: Technion - Israel Institute of Technology; Brendan Baker: Pennsylvania State University; Thomas Hills: University of Warwick; Yuval Hart: The Hebrew University of Jerusalem; Roger Beaty: Pennsylvania State University

2-C-71   **The role of attention in learning through overheard speech**
Emily M Neer: University of California, Los Angeles; Catherine Sandhofer: University of California, Los Angeles

2-C-72   **Causal reasoning under time pressure: testing theories of systematic non-normative reasoning patterns**
Ivar R Kolvoort: University of Amsterdam; Leendert van Maanen: Utrecht University

2-C-73   **Inherence bias in explanation increases with age and cognitive impairment**
Jeffrey Zemla: Syracuse University; Blake H Chambers: University of Wisconsin-Madison; Joseph Larry Austerweil: University of Wisconsin - Madison; Andrei Cimpian: New York University

2-C-74   **A cognitive bias for cross-category word order harmony**
Fang Wang: University of Edinburgh; Simon Kirby: The University of Edinburgh; Jennifer Culbertson: University of Edinburgh

2-C-75   **Can action bias the perception of ambiguous auditory stimuli?**
Johannes Lohmann: University of Tübingen; Martin V. Butz: University of Tuebingen

2-C-76   **Explore, exploit, create: Inventing goals in play**
Sophia Diggs-Galligan: Massachusetts Institute of Technology; Junyi Chu: Massachusetts Institute of Technology; Josh Tenenbaum: Massachusetts Institute of Technology; Laura Schulz: Massachusetts Institute of Technology

2-C-77   **Pragmatic reasoning ability predicts syntactic framing effects on social judgments**
Sarah H. Wu: Reed College; Nan L Elpers: Reed College; Evan M Doherty: Colorado College; Stephen Flusberg: Purchase College, SUNY; Kevin J. Holmes: Reed College

2-C-78   **The effect of investment position on belief formation and trading behavior**
Kevin Trutmann: University of Basel; Steve Heinke: U Basel; Jörg Rieskamp: University of Basel

2-C-79   **A systematic investigation into team coordination breakdowns**
Kyana van Eijndhoven: Tilburg University; Travis J. Wiltshire: Tilburg University; Josette M.P. Gevers: Eindhoven University of Technology; Elwira A. Halgas: Eindhoven University of Technology

2-C-80   **Local sampling with momentum accounts for human random sequence generation**
Lucas Castillo: University of Warwick; Pablo Leon Villagra: University of Warwick; Nicholas Chater: University of Warwick; Adam Sanborn: University of Warwick

2-C-81   **Belief change triggers behavioral change**
Madalina Vlasceanu: Princeton University; Jay Van Bavel: New York University; Alin Coman: Princeton University

2-C-82   **Do left-right and back-front mental timelines activate simultaneously?**
María Noel Macedo: Universidad de la República; Mauricio Castillo: Universidad de la República; Jordi Villoro Armengol: Escuela de Negocios ESIC - Campus Barcelona; Roberto Aguirre: Universidad de la República

2-C-83   **Categories affect color perception of only some simultaneously present objects**
Marina Dubova: Indiana University; Robert Goldstone: Indiana University

2-C-84   **The 'know-what' and the 'know-how': importance of declarative and procedural memory systems in the L2 learning of morphology, syntax and semantics**
Marta Gasiorowska: University of Birmingham; Dagmar Divjak: University of Birmingham; Petar Milin: University of Birmingham

2-C-85   **Modelling the production effect in recognition memory**
Megan O. Kelly: University of Waterloo; Tyler M Ensor: California State University; Colin M. MacLeod: University of Waterloo; Evan Risko: University of Waterloo

2-C-86   **Cognitive effort and preference: A curious case of rotated words**
Michael J Shehan: University of Waterloo; Joyce S Park: University of Waterloo; Timothy L Dunn: Naval Health Research Center; Evan Risko: University of Waterloo

2-C-87   **Semantic and phonological false memory: A review of theory and data**
Minyu Chang: Cornell University; Charles Brainerd: Cornell University

2-C-88 **More is not necessarily better – how different aspects of sensorimotor experience affect recognition memory for words**

Agata Dymarska: Lancaster University; Louise Connell: University of Lancaster; Briony Banks: Lancaster University

2-C-89 **Characterizing variability in shared meaning through millions of sketches**

Molly Lewis: Carnegie Mellon University; Anjali Balamurugan: Carnegie Mellon University; Bin Zheng: Carnegie Mellon University; Gary Lupyan: University of Wisconsin - Madison

2-C-90 **Exploring online goal inference in real world environments**

Michael Gordon Collins: Air Force Research Laboratory; Alexander Hough: Air Force Research Laboratory; Michael Lee: University of California, Irvine; Jayde King: Air Force Research Laboratory

2-C-91 **Impact of socio-economic status on cognitive processing**

Rakhi Gupta: O.P. Jindal Global University; Mohita Junnarkar: O. P. Jindal Global University ; Divya Bhatia: O.P. Jindal Global University

2-C-92 **Computational analysis of social cues in the response to joint attention, the more the better**

Diana Nohelí Sinsún-Medina: UNAM; Angel Eugenio Tovar: UNAM

2-C-93 **Overcoming error: Association between attentional reorientation and vocabulary size**

Katherine D Snelling: Queen's University; Stanka A. Fitneva: Queen's University

2-C-94 **Visual processing of biological motion in the periphery under attentional load**

Murat Batu Tunca: Bilkent University; Hilal Nizamoglu: Bilkent University; Ada Dilek Rezaki: Bilkent University; Ece Tuğlacı: Bilkent University; Sebnem Ture: Bilkent University; Faruk Tayyip Yalçın: Bilkent University; Burcu A. Urgen: Bilkent University

2-C-95 **Categorization of robot animacy using implicit visual cues**

Vanessa Mondry: Tilburg University; Neil Cohn: Tilburg University

2-C-96 **Behind the bar: Coordinated collision avoidance in a goal-directed joint action task**

Olivia Soesanto: Macquarie University; Michael J Richardson: Macquarie University; Rachel W. Kallen: Macquarie University

2-C-97 **How are spatial distance, temporal distance and temporal valuation related?**

Julio Santiago: University of Granada; Omar Escámez: University of Granada; Carmen Callizo: University of Granada; Tilbe Göksun: Koç University; Alexander Kranjec: Duquesne University

2-C-98 **Sampling associations with (un)related suggestions**

Pablo Leon Villagra: University of Warwick; Nicholas Chater: University of Warwick; Adam Sanborn: University of Warwick

2-C-100 **Stereotypes as bayesian judgements of social groups**

Prachi Solanki: Michigan State University; Joseph Cesario: Michigan State University

2-C-101 **Providing explanations shifts preschoolers' metaphor preferences**

Rebecca Zhu: University of California, Berkeley; Mariel K. Goddu: University of California, Berkeley; Alison Gopnik: University of California, Berkeley

2-C-102   **Pragmatic impacts on children's understanding of exact equality**

Rose M. Schneider: University of California, San Diego; Roman Feiman: Brown University; Madeleine A Mendes: Cardiff University; David Barner: University of California, San Diego

2-C-103   **Impact of performing a secondary task on recall**

RuoChong Zhang: University of Nottingham; Christopher R Madan: University of Nottingham; Edward Wilding: University of Birmingham

2-C-104   **The computer judge: Expectations about algorithmic decision-making**

Sarah English: University of Waterloo; Stephanie Denison: University of Waterloo ; Ori Friedman: University of Waterloo

2-C-105   **Making progress on the effort paradox: Progress information moderates cognitive demand avoidance**

Sean Devine: McGill University; A. Ross Otto: McGill University

2-C-106   **Modeling procrastination as rational metareasoning about task effort**

Shobhit Jagga: Indian Institute of Technology; Narayanan Srinivasan: Indian Institute of Technology; Nisheeth Srivastava: Indian Institute of Technology

2-C-107   **A computational model of counting along a mental line**

Stephanie Chouteau: University Grenoble Alpes; Karine Mazens: University Grenoble Alpes; Catherine Thevenot: University of Lausanne; Jasinta Dewi: University of Lausanne; Benoit Lemaire: University Grenoble Alpes

2-C-108   **What's in a role? The effects of personality and political differences on gender stereotype processing**

Stephanie J Hammond-Thrasher: University of Alberta ; Juhani Järvikivi: University of Alberta

2-C-109   **Visuo-locomotive update in the wild: The role of (un)familiarity in choice of navigation strategy, and its application in computational spatial design**

Vasiliki Kondyli: Örebro University School of Science and Technology AASS; Mehul Bhatt: School of Science and Technology

2-C-110   **Investigating the impact of metacognition on working memory and procedural learning mechanisms**

Xiaochen Wu: University of Washington ; Theodros Haile: University of Washington; Chantel Prat: University of Washington

2-C-111   **The differential effect of explicit and implicit instructions on response execution: a hypnosis study**

Yeganeh Farahzadi: ELTE, Institute of Psychology,; Zoltan Kekecs: ELTE, Institute of Psychology

2-C-112   **Probing the mental representation of relation-defined categories**

Yuhui Du: Ohio State University; John E. Hummel: University of Illinois; Alexander Alexandrov Petrov: Ohio State University

2-C-113 **Complexity of processing to activate magnitude representation for common fractions and precision of their magnitude representations in fraction magnitude comparison**

Yuki Tanida: Osaka Prefecture University; Masahiko Okamoto: Osaka Prefecture University

D - Education, development and perspectives in cognitive science

2-D-114 **Mechanistic learning goals enhance elementary student understanding and enjoyment of heart lessons.**

Nicole Betz: Yale University; Frank Keil: Yale University

2-D-115 **The effects of messages about intellectual ability on children's activity preferences**

Amalia Ionescu: University of California, Los Angeles; Christina M Tworek: University of Illinois Urbana-Champaign; Catherine Sandhofer: University of California, Los Angeles; Andrei Cimpian: New York University

2-D-116 **Students prefer to learn from figures that include spatial supports for comparison**

Bryan Matlen: WestEd; Dedre Gentner: Northwestern University; Nina Simms: Northwestern University; Yinyuan Zheng: Northwestern University ; Benjamin Jee: Worcester State University

2-D-117 **Testing an interference-based model of working memory in children with developmental language disorder and their typically developing peers**

Caroline Larson: University of Wisconsin-Madison; Kimberly Crespo: University of Wisconsin-Madison; Susan Ellis Weismer: University of Wisconsin-Madison

2-D-118 **Children's use of reasoning by exclusion to track identities of occluded objects**

Chen Cheng: Boston University; Melissa M. Kibbe: Boston University

2-D-119 **I see where this is going: Modeling the development of infants' goal-predictive gaze**

Christian Gumbsch: University of Tübingen; Maurits Adam: University of Potsdam; Birgit Elsner: University of Potsdam; Martin V. Butz: University of Tübingen

2-D-120 **Revisiting the role of uncertainty-driven exploration in a (perceived) non-stationary world**

Dalin Guo: University of California, San Diego; Angela J Yu: University of California, San Diego

2-D-121 **We have nothing to fear but everything: A surprising effect of training set diversity on the generalization of learned fear**

David A. Bosch: New York University; Joseph Dunsmoor: University of Texas at Austin; Gregory Murphy: New York University

2-D-122 **Humans start out altercentric: the ontogenetic development of other-centered cognition**

Dora Kampis: University of Copenhagen; Charlotte Grosse Wiesmann: Max Planck Institute for Human Cognitive and Brain Sciences; Victoria Southgate: University of Copenhagen

2-D-123 **Can algorithms learn from babies? Exploring how infant learning can inform and inspire unsupervised learning algorithms**

Jelena Sucevic: University of Oxford; Jovana Massachusetts Institute of Technologyrovic: DeepMind

2-D-124　　　　Category learning is shaped by the multifaceted development of selective attention
Layla Unger: The Ohio State University; Vladimir Sloutsky: The Ohio State University

2-D-125　　　　Acquiring the meaning of conditionals
Myrto Grigoroglou: University of Toronto; Patricia Ganea: University of Toronto

2-D-126　　　　Promoting thinking in terms of causal structures: Impact on performance in solving complex problems
Franziska Kessler: Technische Universität Dresden ; Antje Proske: TU Dresden; Micah Goldwater: University of Sydney; Leon Urbas: Technische Universität Dresden, Chair of Process Control Systems; Samuel Greiff: University of Luxembourg; Susanne Narciss: Technical University of Dresden

2-D-127　　　　Musical syntactic structure improves memory for melody: evidence from the processing of ambiguous melodies
Gabriele Cecchetti: École Polytechnique Fédérale de Lausanne; Steffen A Herff: École polytechnique Fédérale de Lausanne; Martin Alois Rohrmeier: École Polytechnique Fédérale de Lausanne

2-D-128　　　　A large-scale comparison of cross-situational word learning models
George Kachergis: Stanford University; Michael C. Frank: Stanford University

2-D-129　　　　The relationship between intelligence mindset and test anxiety as mediated by effort regulation
Avital Pelakh: University of Pittsburgh; Melanie L Good: University of Illinois at Urbana-Champaign; Eric Kuo: University of Pittsburgh; Timothy Nokes-Malach: University of Pittsburgh; Michael J Tumminia: University of Pittsburgh ; Nabila Jamal-Orozco: University of Pittsburgh; Michael S. Diamond: University of Pittsburgh; Amy Adelman: University of Pittsburgh; Brian Galla: University of Pittsburgh

2-D-130　　　　Effects on word learning from spacing and category variability
Gwendolyn F Price: University of California, Los Angeles; Catherine Sandhofer: University of California, Los Angeles

2-D-131　　　　How do the semantic properties of visual explanations guide causal inference?
Holly Huey: University of California, San Diego; Caren M. Walker: University of California, San Diego; Judith E. Fan: University of California, San Diego

2-D-132　　　　Utilizing dynamic and embodied visualization to facilitate understanding of normal probability distributions
Icy(Yunyi) Zhang: University of California, Los Angeles; Ji Son: Cal State University, Los Angeles; Idan Blank: University of California, Los Angeles; James Stigler: University of California, Los Angeles

2-D-133　　　　Visuospatial skills and the workforce: A brief review
Israel Flores: Vanderbilt University; Carson Fallon: Vanderbilt University; Maithilee Kunda: Vanderbilt University

2-D-134　　　　The decorated learning environment: Simply noise or an opportunity for incidental learning?
Karrie E. Godwin: University of Maryland Baltimore County; Freya Kaur: University of Maryland Baltimore County

2-D-135   **Experience with equations in sequence promotes procedural fluency**

Lauren E Anthony: University of Wisconsin-Madison; C. Shawn Green: University of Wisconsin-Madison; Martha W Alibali: University of Wisconsin-Madison

2-D-136   **The role of verbal and visuospatial working memory in supporting mathematics learning with and without hand gesture**

Mary Aldugom: University of Iowa; Kimberly Fenn: Michigan State University; Alison Day: Michigan State University ; Susan Wagner Cook: University of Iowa

2-D-137   **Certainly strange: A probabilistic perspective on ignorance**

Erwin J. de Wolff: Donders Centre for Cognition; Iris van Rooij: Radboud University; Johan Kwisthout: Donders Institute

2-D-138   **Language proficiency impacts the benefits of co-speech gesture for narrative understanding through a visual attention mechanism**

Natalia Zielinski: Loyola University Chicago; Elizabeth M Wakefield: Loyola University Chicago

2-D-139   **Planning and action organization in ill-defined tasks: The case of everyday activities**

Petra Wenzl: University of Bremen; Holger Schultheis: University of Bremen

2-D-140   **Vocabulary growth in infancy and toddlerhood: The impact of COVID-19**

Priscilla Fung: University of Toronto ; Momina Raja: University of Toronto; Elizabeth Johnson: University of Toronto

2-D-141   **A metric of children's inference-making difficulty during language comprehension**

Rina Miyata Harsch: University of Minnesota; Panayiota Kendeou: University of Minnesota

2-D-142   **Category learning in preschool and primary school children: The use of rule-based and similarity-based strategies**

Roman Tikhonov: HSE University; Arsenii Moskvichev: University of California, Irvine; Alexey Kotov: Higher School of Economics

2-D-143   **Interpreting data tables: can variable symmetry scaffold performance?**

Rui Meng: University of Wisconsin Madison; Martha W Alibali: University of Wisconsin Madison

2-D-144   **Improvised numerals rely on 1-to-1 correspondence**

Sebastian Holt: University of California, San Diego; David Barner: University of California, San Diego; Judith E. Fan: University of California, San Diego

2-D-146   **How does mental sorting scale?**

Susanne Haridi: Max Planck School of Cognition; Charley M Wu: University of Tübingen; Ishita Dasgupta: Princeton University; Eric Schulz: Max Planck Institute for Biological Cybernetics

2-D-147   **Connecting perceptual and procedural abstractions in physical construction**

William P McCarthy: University of California, San Diego; Marcelo G Mattar: University of California, San Diego; David Kirsh: University of California, San Diego; Judith E. Fan: University of California, San Diego

E - Linguistics

2-E-148   **The emergence of indexicality in an artificial language**

Aini Li: University of Pennsylvania; Gareth Roberts: University of Pennsylvania

2-E-149   A cognitive bias for Zipfian distributions? Uniform distributions become more skewed via cultural transmission

Amir Shufaniya: The Hebrew University of Jerusalem; Inbal Arnon: Hebrew University

2-E-150   Directionality effects and exceptions in learning phonological alternations

Anqi Wang: Pacific Lutheran University

2-E-151   It's not so simple: morphosyntactically simpler languages are not always easier to learn

Arturs Semenuks: University of California, San Diego

2-E-152   More than the sum of its parts: Acquiring semantically complex quantifiers

Cindy Torma: Massachusetts Institute of Technology; Gabor Brody: Brown University; Athulya Aravind: Massachusetts Institute of Technology

2-E-153   Effects of lifetime knowledge on language processing in German and English

Daniela Palleschi: Humboldt-Universität zu Berlin; Pia Knoeferle: Humboldt University of Berlin; Camilo Rodriguez Ronderos: Humboldt Universität zu Berlin

2-E-154   Revising the scope of linguistic relativity: Language influences perception in non-linguistic tasks

Diane Baier: Austrian Academy of Sciences; Soonja Choi: San Diego State University; Florian Goller: Austrian Marketing University of Applied Sciences; Yunju Nam: Konkuk University; Ulrich Ansorge: University of Vienna

2-E-155   Priming implicatures in young children

Alice Rees: University of Edinburgh; Eleanor D E Carter Carter: Cardiff University; Lewis Bott: Cardiff University

2-E-156   Do scalar implicatures prime? The case of exclusive 'or'

Edward Matthew Husband: University of Oxford; Nikole Patson: Ohio State University at Marion

2-E-157   "The parrot next to the hamster (and) next to the bunny" Sheds light on recursion in child romanian

Adina Camelia Bleotu: ISDS

2-E-158   Variation in linguistic complexity and its cognitive underpinning

Anastasia Smirnova: San Francisco State University

2-E-159   Two languages, one mind: the effects of language learning on motion event processing in early Cantonese-English bilinguals

YI WANG: University College London; Li Wei: University College London

2-E-160   Augmenting linguistic intelligence through chess training - an empirical study

Ebenezer Joseph: Emmanuel Chess Centre; Jenith Jebasingh: CSI Ewart College; Swaminathan V D: Madras University; Sweta Vaddadi: Emmanuel Chess Centre

2-E-161   Statistical properties of the speed-accuracy trade-off (SAT) paradigm in sentence processing

Elizabeth Pankratz: Universität Potsdam; Himanshu Yadav: University of Potsdam; Garrett SMassachusetts Institute of Technologyh: Universität Potsdam; Shravan Vasishth: Potsdam

2-E-162   Syntactic adaptation and word learning in French and English
Elizabeth Swanson: Stanford University; Michael C. Frank: Stanford University; Judith Degen: Stanford University

2-E-163   The asymmetry between descriptions of vertical and horizontal spatial relations
Feyza Nur Dik: Koç University; Demet Özer: Koç University; Altuğ Eskioğlu: Koç University; Alexander Kranjec: Duquesne University; Tilbe Göksun: Koç University

2-E-164   8-10 months old infants extract non-adjacent dependencies from segmental information
Ivonne Weyers: University of Vienna; Jutta L. Mueller: University of Vienna; Claudia Männel: Charité–Universitätsmedizin Berlin

2-E-165   Zipf's law of abbreviation and common ground: Past communicative success hampers the re-optimization of language
Jacob C Kuek: University of Melbourne; Vanessa Ferdinand: University of Melbourne

2-E-166   Verb learning in young children: Are types of comparisons important?
Jane B. Childers: Trinity University; Rayna Lynn Webb: Trinity University

2-E-167   Emotion expression captured by utterances in acting and underpinning internal changes in actors
Jingyan Sun: The University of Tokyo; Takeshi Okada: The University of Tokyo

2-E-168   Of pieces and patterns: Modeling poetic devices
Jordan A Ackerman: University of California, Merced

2-E-169   Simulating the factors that correct the erroneous process of phonological generation in Japanese
Jumpei Nishikawa: Shizuoka University; Junya Morita: Shizuoka University

2-E-170   Modeling a direct role of vocabulary size in driving cross-accent word identification
Karen E. Mulak: University of Maryland; Damien J. Smith: MedStar Washington Hospital Center

2-E-171   Vector autoregression, cross-correlation, and cross-recurrence quantification analysis: A case study in social cohesion and collective action
Megan Chiovaro: University of Connecticut; Leah C. Windsor: University of Memphis; Alexandra Paxton: University of Connecticut

2-E-172   A preregistered study exploring language-specific distributional learning advantages in English-Mandarin bilingual adults
Hannah L. Goh: Nanyang Technological University; Suzy J. Styles: Nanyang Technological University

2-E-173   Subitizing abilities of bilingual subset-knowers
Nina Schoener: University of California, San Diego; Elisabeth Marchand: University of California San Diego; Kelly Kendro: University of California, San Diego; David Barner: University of California, San Diego

2-E-174   Statistical power in response signal paradigm experiments
Pavel Logacev: Bogazici University; M. İlteriş Bozkurt: Middle East Technical University

2-E-175   What transformers might know about the physical world: t5 and the origins of knowledge
Haohan Shi: Emory University; Phillip Wolff: Emory University

2-E-176   Infinite use of finite means? Evaluating the generalization of center embedding learned from an artificial grammar
Richard Thomas McCoy: Johns Hopkins University; Jennifer Culbertson: University of Edinburgh; Paul Smolensky: Microsoft; Geraldine Legendre: Johns Hopkins University

2-E-177   Respect the code: Speakers expect novel conventions to generalize within but not across social group boundaries
Robert Hawkins: Princeton University; Irina Liu: Princeton University; Adele Goldberg: Princeton University; Tom Griffiths: Princeton University

2-E-178   Exploring the variable effects of frequency and semantic diversity as predictors for a word's ease of acquisition in different word classes
Serene Siow: University of Oxford; Kim Plunkett: University of Oxford

2-E-179   Unexpected guests: When disconfirmed predictions linger
Stephanie Rich: Univeristy of California Santa Cruz; Jesse Harris: University of California Los Angeles

2-E-180   Long-range sequential dependencies precede complex syntactic production in language acquisition
Tim Sainburg: University of California, San Diego; Anna Mai: UCSD; Timothy Gentner: University of California, San Diego

2-E-181   The role of eye movement pattern and global-local information processing abilities in isolated English word reading
Weiyan Liao: University of Hong Kong; Janet Hsiao: University of Hong Kong

2-E-182   Integrating emotional expressions with utterances in pragmatic inference
Yang Wu: Stanford University; Michael Henry Tessler: Massachusetts Institute of Technology; Mika Asaba: Stanford University; Peter Zhu: Johns Hopkins University; Hyowon Gweon: Stanford University; Michael C. Frank: Stanford University

2-E-183   Human learners integrate visual and linguistic information cross-situational verb learning
Yayun Zhang: University of Texas - Austin; Andrei Amatuni: The University of Texas at Austin; Ellis Cain: Indiana University; Xizi Wang: Indiana University - Bloomington; David Crandall: Indiana University; Chen Yu: University of Texas at Austin

2-E-184   Web-scraping the Expression of Loneliness during COVID-19
Yoonwon Jung: Seoul National University; Yoon Kyung Lee: Seoul National University; Sowon Hahn: Seoul National University

2-E-185   **Embodied metaphor in communication about experiences of COVID-19 Pandemic**

Yu Deng: Sichuan International Studies University; Jixue Yang: Sichuan International Studies University; Wan Wan: Huaqiao University

2-E-186   **How do the concepts of native language influence second language learning? : Evidence from the reconstruction of word semantic domain**

Akiko Zhao: Keio University

F - Neuroscience

2-F-187   **Eye-tracking multi-modal inference**

Ari Beller: Stanford University; Yingchen Xu: Stanford University; Tobias Gerstenberg: Stanford University

2-F-188   **A nonlinear dynamical systems approach to emotional attractor states during media viewing**

Jingjing Han: Fudan University; Mary Jean Amon: University of Central Florida

2-F-189   **Uncovering the metricity of representational spaces in the brain: Evidence from colors and letters**

Leyla Caglar: Carnegie Mellon University; Catherine Hanson: Rutgers; Stephen Jose Hanson: Rutgers

2-F-190   **Biologically constrained large-scale model of the wisconsin card sorting test**

Ivana Kajić: DeepMind; Terrence C Stewart: National Research Council of Canada

2-F-191   **Early analogical extensions: An ERP study on preschoolers' semantic approximations**

Lucas Raynal: CY Cergy Paris University; Evelyne Clément: CY Cergy Paris University; Emmanuel Sander: University of Geneva; Pia Rämä: CNRS, Integrative Neuroscience and Cognition Center (UMR 8002); Louise Goyet: Paris 8 University

2-F-192   **A neural network model of referent identification in the inter-modal preference looking task**

Mihaela Duta: University of Oxford; Kim Plunkett: University of Oxford

2-F-193   **EEG reveals familiarity by controlling confidence in memory retrieval**

Kueida Liao: University of California, San Diego; Matthew Mollison: University of Colorado Boulder; Tim Curran: University of Colorado Boulder; Virginia de Sa: University of California, San Diego

2-F-194   **Brain connectivity-based prediction of semantic network properties related to creativity**

Marcela Ovando Tellez: Institut du cerveau(ICM); Yoed N. Kenett: Technion - Israel Institute of Technology; Mathias Benedek: University of Graz; Emmanuelle Volle: Institut du cerveau(ICM)

2-F-195   **A neurocomputational model of prospective and retrospective timing**

Joost de Jong: University of Groningen; Aaron R Voelker: University of Waterloo; Terrence C Stewart: University of Waterloo; Chris EliasMassachusetts Institute of Technologyh: University of Waterloo; Elkan Akyürek: University of Groningen; Hedderik van Rijn: University of Groningen

2-F-196   **Exploring learning trajectories with dynamic infinite hidden Markov models**

Sebastian Bruijns: Max Planck Institute for Biological Cybernetics; International Brain Laboratory: University College London; Peter Dayan: Max Planck Institute for Biological Cybernetics

2-F-197   **Stone tools and trained brains: Comparing anatomical connectivity in expert toolmakers   versus naïve subjects using Diffusion Tensor Imaging**

Zara Anwarzai: Indiana University; Louis A van der Elst: Indiana University; Shelby S. J. Putt: Illinois State University; Lana M Ruck: Indiana University; P. Thomas Schoenemann: Indiana University

G - Philosophy

2-G-198   **The role of causal models in evaluating simple and complex legal explanations**

Alice Liefgreen: University College London; David Lagnado: University College London

2-G-199   **Navigating by narratives: Cognitive maps encode engagement with physical and fictional worlds**

Binyan Li: Indiana University

2-G-200   **Blame blocking and expertise effects revisited**

Karolina Prochownik: Ruhr-University Bochum; Alex Wiegmann: Ruhr University Bochum; Joachim Horvath: Institute for Philosophy II

2-G-201   **A causal proximity effect in moral judgment**

Neele Engelmann: University of Göttingen; Michael R. Waldmann: University of Göttingen

2-G-202   **When are humans reasoning with modus tollens?**

Marcos Cramer: TU Dresden; Steffen Hölldobler: TU Dresden; Marco Ragni: South Denmark University

2-H-203   **Readers text skimming behavior changes with variation in working memory capacity**

Christopher Sanchez: Oregon State University; Lena Hildenbrand: University of Illinois at Chicago; Courtney Powell: Oregon State University

H - Psychological science

2-H-204   **A bilingual inhibitory control advantage in mandarin-english speaking high school students in china: An internet-based study**

Adam John Privitera: The University of Hong Kong; Mohammad Momenian: The Hong Kong Polytechnic University; Brendan Weekes: University of Cambridge

2-H-205   **Broken telephone: Children's judgments of messages delivered by non-native speakers are influenced by processing fluency**

Ashley Avarino: University of Waterloo; Rachel Thorburn: University of Toronto; Katherine White: University of Waterloo

2-H-206   **Why do people criticize others for suffering irrationally?**

Corey Cusimano: Princeton University; Geoffrey Goodwin: University of Pennsylvania

2-H-207   **Extrapolation under caricatured representations**

Daniel Silliman: Binghamton University; Kenneth Kurtz: Binghamton University

2-H-208   **"If only Santa had one more present": Exploring the development of near-miss counterfactual reasoning**
Desmond Ong: National University of Singapore; Mika Asaba: Stanford University; Hui Yan Lim: National University of Singapore; Patricia Chen: National University of Singapore; Hyowon Gweon: Stanford University

2-H-209   **The impact of readability on trust in information**
Amanda Withall: University of St. Francis; Eyal Sagi: University of St. Francis

2-H-210   **If it works we didn't need it: Intuitive judgments of 'overreaction'**
Jonathan F. Kominsky: Rutgers University - Newark; Daniel J Reardon: Rutgers University - Newark; Elizabeth Bonawitz: Rutgers University - Newark

2-H-211   **Modelling characters' mental depth in stories told by children aged 4-10**
Bram Dijk van: Leiden University; Max van Duijn: Leiden University

2-H-212   **Recollection & traumatic growth: Unique mediational pathways through traumatic stress components**
Emine Şeyma Kurtulmuş: Kadir Has University; Serap Özlü: Boğaziçi University; Sude Aydemir: MEF University; Sezin Oner: Kadir Has University

2-H-213   **'Hello! *What your name?' Children's evaluations of ungrammatical speakers after live interaction**
Thomas St. Pierre: University of Toronto Mississauga; Katherine White: University of Waterloo; Elizabeth Johnson: University of Toronto

2-H-214   **Suboptimal deployment of object-mediated space-based attention during a flanker task**
Ema Shamasdin Bidiwala: Texas Tech University; Miranda Scolari: Texas Tech University

2-H-215   **The influence of the self-perspective in infant theory of mind**
Emanuela Yeung: University of Copenhagen; DiMassachusetts Institute of Technologyrios Askitis: University of Copenhagen; Velisar Manea: University of Copenhagen; Victoria Southgate: Copenhagen University

2-H-216   **Effects of memory organization on credit assignment in human reinforcement learning**
Euan Prentis: University of Pennsylvania; Sharon L. Thompson-Schill: University of Pennsylvania

2-H-217   **Fatal errors in the food domain: Children's categorization performance and strategy depend on both food processing and neophobic dispositions.**
Foinant Damien: Université Bourgogne Franche Comté; Lafraire Jérémie: Institut Paul Bocuse Research Center; Jean-Pierre Thibaut: Université Bourgogne Franche Comté

2-H-218   **Top-down effects on anthropomorphism of a robot**
Hailey Scherer: Dartmouth College; Jonathan Phillips: Dartmouth College

2-H-219   **Learning how to use the verb 'want': A corpus study**
Hillary Harner: US Naval Research Laboratory; Sangeet Khemlani: Naval Research Laboratory

2-H-220   **Can children use numerical reasoning to compare odds in games?**
Julianna Lu: University of Waterloo; Tiffany Doan: University of Waterloo; Stephanie Denison: University of Waterloo

2-H-221   **From music to animacy: Causal reasoning links animate agents with musical sounds**
Minju Kim: University of California, San Diego; Adena Schachner: University of California, San Diego

2-H-222   **Explaining the Gestalt principle of common fate as amortized inference**
Yoni Friedman: Massachusetts Institute of Technology; Tuan Anh Le: Massachusetts Institute of Technology; Bernhard Egger: Massachusetts Institute of Technology; Max Siegel: Massachusetts Institute of Technology; Josh Tenenbaum: Massachusetts Institute of Technology

2-H-223   **Effect of morphine administration on human social motivation during stress**
Claudia Massaccesi: University of Vienna; Matthäus Willeit: Medical University of Vienna; Boris B. Quednow: University of Zurich; Gheorghe L. Preda: Medical University of Vienna; Carina Bum: Medical University of Vienna; Urs M. Nater: University of Vienna

2-H-224   **Is convenient secure? Exploring the impact of metacognitive beliefs in password selection**
Mukund Choudhary: International institute of information technology Hyderabad; K V Aditya Srivatsa: International Institute of Information Technology, Hyderabad; Ishan Sanjeev Upadhyay: International Institute of Information Technology, Hyderabad; Priyanka Srivastava: International Institute of Information Technology, Hyd

2-H-225   **Social media spillover: Attitude-inconsistent tweets reduce memory for subsequent information**
Reese Butterfuss: Arizona State University; Tracy Arner: Arizona State University; Laura Kristen Allen: University of New Hampshire; Danielle McNamara: Arizona State University

2-H-226   **Children consider the probability of random success when evaluating knowledge**
Rosie Aboody: Yale University; Stephanie Denison: University of Waterloo ; Julian Jara-Ettinger: Yale University

2-H-227   **It's complicated: Improving decisions on causally complex topics**
Samantha Kleinberg: Stevens Institute of Technology; Jessecae Marsh: Lehigh University

2-H-228   **What is the cooperative behavior of moving in shared spaces?**
Shota Matsubayashi: Nagoya University; Kazuhisa Miwa: Nagoya University; Hitoshi Terai: Kindai University; Asaya Shimojo: Nagoya University; Yuki Ninomiya: Nagoya University

2-H-229   **Cognitive supports for objective numeracy**
Shuyuan Yu: the Ohio State University; John Opfer: The Ohio State University

Poster Session 3

Thursday, July 29, 2021: 17:20 – 19:00

A - AI, Computer science and Computer models

3-A-1 **A grounded approach to modeling generic knowledge acquisition**

Deniz Beser: University of Southern California; Joe Cecil: USC Information Sciences Institute; Marjorie Freedman: University of Southern California Information Sciences Institute; Jacob A Lichtefeld: University of Southern California; Massachusetts Institute of Technologych Marcus: University of Pennsylvania; Sarah R B Payne: University of Pennsylvania; Charles Yang: University of Pennsylvania

3-A-2 **Language as a bootstrap for compositional visual reasoning**

Catherine Wong: Massachusetts Institute of Technology; Yoni Friedman: Massachusetts Institute of Technology; Jacob Andreas: Massachusetts Institute of Technology; Josh Tenenbaum: Massachusetts Institute of Technology

3-A-3 **Contextual flexibility guides communication in a cooperative language Game**

Abhilasha Ashok Kumar: Washington University in St Louis; Ketika Garg: UC Merced; Robert Hawkins: Princeton University

3-A-4 **Modeling artificial category learning from pixels: Revisiting Shepard, Hovland, and Jenkins (1961) with deep neural networks**

Alexa R. Tartaglini: New York University; Wai Keen Vong: New York University; Brenden Lake: New York University

3-A-5 **A virtual actor with socially emotional behavior**

Alexei V Samsonovich: National Research Nuclear University MEPhI; Vladimir Tsarkov: National Research Nuclear University MEPhI; Vladislav Yenikeyev: National Research Nuclear University MEPhI

3-A-6 **Fast and flexible: Human program induction in abstract reasoning tasks**

Aysja Johnson: New York University; Wai Keen Vong: New York University; Brenden Lake: New York University; Todd M Gureckis: New York University

3-A-7 **Narratives of consensus: A decade of reddit discourse on Marijuana legalization**

Babak Hemmatian: Brown University; Nathaniel Goodman: Brown Univeristy; Jonathan Lee: Brown Univeristy; Carsten Eickhoff: Brown Univeristy; Steven Sloman: Brown University

3-A-8 **Learning from agentic actions: Modelling causal inference from intention**

Dennis W.H. Teo: National University of Singapore; Desmond Ong: National University of Singapore

3-A-9 **Order effects in bayesian updates**

Catarina Moreira: Queensland University of Technology; José Acácio de Barros: San Francisco State University

3-A-10 **Discretisation and continuity: Simulating the emergence of symbols in communication games**

Robert Lieck: École Polytechnique Fédérale de Lausanne; Leona Wall: École Polytechnique Fédérale de Lausanne; Martin Alois Rohrmeier: École Polytechnique Fédérale de Lausanne

3-A-11   Toward transformer-based NLP for extracting psychosocial indicators of moral disengagement
Scott E Friedman: SIFT; Ian Magnusson: SIFT; Sonja Schmer-Galunder: SIFT; Ruta Wheelock: SIFT; Jeremy Gottlieb: SIFT; pooja patel: SIFT; Christopher Miller: SIFT

3-A-12   A computational evaluation of gender asymmetry in semantic change
Eric Schnell: University of Toronto; Yang Xu: University of Toronto

3-A-13   Are explicit frequency counters necessary in computational models of early word segmentation?
Francesco Cabiddu: Cardiff University; Lewis Bott: Cardiff University; Gary Jones: Nottingham Trent University; Chiara Gambi: Cardiff University

3-A-14   Theory acquisition as constraint-based program synthesis
Haoliang Wang: University of California, San Diego; Ed Vul: University of California, San Diego; Nadia Polikarpova: University of California, San Diego; Judith E. Fan: University of California, San Diego

3-A-15   Cumulative frequency can explain cognate facilitation in language models
Irene Elisabeth Winther: University of Edinburgh; Yevgen Matusevych: University of Edinburgh ; Martin J. Pickering: University of Edinburgh

3-A-16   One and known: Incidental probability judgments from very few samples
Ishan Singhal: Indian Institute of Technology Kanpur; Narayanan Srinivasan: Indian Institute of Technology Kanpur; Nisheeth Srivastava: Indian Institute of Technology Kanpur

3-A-17   Discovering computational principles in models and brains
Christian Brodbeck: University of Connecticut; Sahil Luthra: University of Connecticut; Phoebe Gaston: University of Connecticut; James Magnuson: University of Connecticut

3-A-18   Eye movement consistency in global-local perceptual processing predicts schizotypy
Janet Hsiao: University of Hong Kong; Sherry Kit Wa Chan: University of Hong Kong; Antoni B. Chan: City University of Hong Kong; Yueyuan Zheng: University of Hong Kong; Kam Man Lau: University of Hong Kong; Hei Lam Michelle Tsang: University of Hong Kong

3-A-19   Categorization in the wild: Category and feature learning across languages
Lea Frermann: University of Melbourne; Mirella Lapata: University of Edinburgh

3-A-20   Predicting social reopening following COVID-19 lockdown using bounded rationality and threshold models
Jessica B Sithebe: Simon Fraser University

3-A-21   Analyzing contingent interactions in R with `chattr`
Marisa Casillas: University of Chicago; Camila Scaff: University of Zurich

3-A-22   Preparing unprepared students for future learning
Mark Abdelshiheed: North Carolina State University; Mehak Maniktala: North Carolina State University; Song Ju: North Carolina State Univeristy; Ayush Jain: North Carolina State University; Tiffany Barnes: North Carolina State University; Min Chi: North Carolina State University

3-A-23 **Learning evolved combinatorial symbols with a neuro-symbolic generative model**
Matthias Hofer: Massachusetts Institute of Technology;; Tuan Anh Le: Massachusetts Institute of Technology;; Roger Levy: Massachusetts Institute of Technology; Josh Tenenbaum: Massachusetts Institute of Technology;

3-A-24 **A self-supervised and predictive processing-based model of event segmentation and learning**
Hamit Basgol: Bogazici University; Inci Ayhan: Bogazici University; Emre Ugur: Bogazici University

3-A-25 **Diachronic entropy rate in language evolution: A case study of 2500 years of historical Chinese**
Hao Sun: Pearson; Yanwei Jin: University at Buffalo

3-A-26 **Visual analogy: deep learning versus compositional models**
Nicholas Ichien: University of California, Los Angeles; Qing Liu: John Hopkins University; Shuhao Fu: UCLA; Keith Holyoak: University of California, Los Angeles; Alan Yuille: Johns Hopkins University; Hongjing Lu: University of California ,Los Angeles

3-A-27 **Model-based foraging using latent-cause inference**
Nora C Harhen: University of California, Irvine; Catherine Hartley: New York University; Aaron Bornstein: university of california, irvine

3-A-28 **Recovering human category structure across development using sparse judgments**
Pablo Leon Villagra: University of Warwick; Isaac Ehrlich: University of Toronto; Chris Lucas: University of Edinburgh; Daphna Buchsbaum: Brown University

3-A-29 **Aging and social robots: How overspecification affects real-time language processing**
Raheleh Saryazdi: University of Toronto; Joanne Nuque: University of Toronto Mississauga; Craig Chambers: University of Toronto

3-A-30 **The sensorimotor dynamics of joint attention**
Sara E Schroer: University of Texas at Austin; Chen Yu: University of Texas at Austin

3-A-31 **Chunking as a rational solution to the speed-accuracy trade-off in a serial reaction time task**
Shuchen Wu: Max Planck Institute for Biological Cybernetics; Noemi Elteto: Max Planck Institute for Biological Cybernetics; Ishita Dasgupta: Harvard University; Eric Schulz: Max Planck Institute for Biological Cybernetics

3-A-32 **Causal judgment in the wild**
tadeg quillien: University of California Santa Barbara; Michael Barlev: Arizona State University

3-A-33 **Learning new categories for natural objects**
Wanling Zou: University of Pennsylvania; Sudeep Bhatia: University of Pennsylvania

3-A-34 **Modeling "spatial purport of perceptual experience": egocentric space perception in a semi-realistic 3D virtual environment**
Wiktor Rorot: University of Warsaw

3-A-35   Building a psychological ground truth dataset with empathy and theory-of-mind during the COVID-19 pandemic

Yoon Kyung Lee: Seoul National University; Yoonwon Jung: Seoul National University; Inju Lee: Seoul National University; Jae Eun Park: Seoul National University; Sowon Hahn: Seoul National University

3-A-36   Does Amy know Ben knows you know your cards? A computational model of higher-order epistemic reasoning

Zhang Cedegao: University of California, Berkeley; Huang Ham: University of Pennsylvania; Wesley H. Holliday: University of California, Berkeley

3-A-37   Language representations in L2 learners: Toward neural models

Zixin Tang: The Pennsylvania State University; Michael Putnam: The Pennsylvania State University; David T Reitter: Google

3-A-38   Modeling question asking using neural program generation

Ziyun Wang: Tencent; Brenden Lake: New York University

B - Animal cognition and communication

3-B-39   Expectancy violations about physical properties of animated objects in dogs

Christoph J. Völter: University of Veterinary Medicine Vienna; Ludwig Huber: University of Veterinary Medicine Vienna

3-B-40   Using playback to investigate multimodal signalling of attractiveness in ring doves (Streptopelia risoria)

Daniela Biegler: University of Vienna; Silvia Colombo: University of Vienna; Darja Čepon: University of Vienna; Adele Tuozzi: University of Vienna; Virginie Canoine: University of Vienna; Leonida Fusani: University of Vienna; Cliodhna Quigley: University of Vienna

3-B-41   Comparative aesthetics: A novel approach to investigate multimodal attractiveness in humans and animals

Cliodhna Quigley: University of Vienna; Christina Krumpholz: University of Veterinary Medicine, Vienna; Helmut Leder: University of Vienna; Leonida Fusani: University of Vienna

3-B-42   Beware of strangers: Dogs' empathetic response to unfamiliar humans

Julia E Manor Manor: Ripon College; Micaela Rivera: Ripon College

3-B-44   Do chimpanzees represent the actions of a co-ordination partner?

Merryn D Constable: Northumbria University; Emma McEwen: University of St Andrews; Günther Knoblich: Central European University; Josep Call: University of St Andrews

3-B-45   Cognitive linguistics support for the evolution of language from animal cognition

Jenny Amphaeris: Bangor University; Graeme Shannon: Bangor University; Thora Tenbrink: Bangor University

3-B-46   Domestic dogs' gaze and behaviour in 2-alternative choice tasks

Julia Espinosa: University of Toronto; Liyuzhi Dong: University of Toronto; Daphna Buchsbaum: Brown University

3-B-47   **Songbirds can learn flexible contextual control over syllable sequencing**

Lena Veit: Uni Tübingen; Lucas Yanan Tian: Rockefeller University; Christian Hernandez: Washington University; Michael Brainard: University of California, San Francisco

3-B-48   **Primates watching primates watching primates: Why do we anthropomorphise?**

Margarita Artemis Milidakis: University of Vienna; Donata Baronesse von Bistram: University of Vienna; Michelle Spierings: University of Vienna; Palmyre H Boucherie: University of Vienna; Cliodhna Quigley: University of Vienna

3-B-49   **Sensitivity to geometric shape regularity in humans and baboons: A putative signature of human singularity**

Mathias Sablé-Meyer: NeuroSpin center, CEA DRF/I2BM, INSERM, Université Paris-Sud, Université Paris-Saclay; Joel Fagot: Aix Marseille University; Serge Caparos: CNRS & Aix-Marseille Université; Timo van Kerkoerle: Université Paris-Saclay; Marie Amalric: Carnegie Mellon University; Stanislas Dehaene: NeuroSpin Center, CEA DRF/I2BM, INSERM, Unicersité Paris-Sud, Université Paris-Saclay

3-B-50   **Investigating indirect and direct reputation formation in dogs and wolves**

Hoi-Lam Jim MSc: University of Veterinary Medicine Vienna; Marina Plohovich: University of Veterinary Medicine Vienna; Sarah Marshall-Pescini: University of Veterinary Medicine Vienna; Friederike Range: University of Veterinary Medicine Vienna

3-B-51   **Androgen responsiveness to simulated territorial intrusions in Allobates femoralis males: evidence supporting the challenge hypothesis in a territorial frog**

Camilo Rodriguez: University of Vienna; Leonida Fusani: University of Vienna; Gaëlle Raboisson: University of Vienna; Walter Hödl: University of Vienna; Eva Ringler: University of Bern; Virginie Canoine: University of Vienna

3-B-52   **Chimpanzees utilize video information when facing its referent later in another room**

Shenwen Xu: Kyoto University Primate Research Institute; Masaki Tomonaga: Freelance; Ikuma Adachi: Primate Research Institute

3-B-53   **Impairment effect of infantile coloration on face discrimination in chimpanzees**

Yuri Kawaguchi: University of Veterinary Medicine Vienna; Koyo Nakamura: University of Vienna; Masaki Tomonaga: Freelance; Ikuma Adachi: Primate Research Institute

C - Cognitive science

3-C-54   **When and why do reasoners generalize causal integration functions? Causal invariance as generalizable causal knowledge**

Jeffrey K. Bye: University of Minnesota; Pei-Jung Chuang: University of California, Los Angeles; Patricia Cheng: University of California, Los Angele

3-C-55   **Preschool-aged children can use communicators' influence on others to infer what they know**

Aaron Chuey: Stanford University; Hyowon Gweon: Stanford University

3-C-56   **Reflected boundary drift diffusion model: A double responding framework for Go/No-Go paradigm**

Amir Hosein Hadian Rasanan: Shahid Beheshti University; Jamal Amani Rad: Shahid Beheshti University

3-C-57   **Long-term effects of valence, concreteness, and arousal on lexical reproduction**

Andreas Baumann: University of Vienna

3-C-58   **The perception of reduced reliability in an external store reduces vulnerability to its manipulation**

April Emily Pereira: University of Waterloo; Megan O. Kelly: University of Waterloo; Xinyi Lu: University of Waterloo; Evan Risko: University of Waterloo

3-C-59   **Emotions in games: Toward a unified process-level account**

Myriam Lizotte: McGill University; Ardavan S. Nobandegani: McGill University; Thomas Shultz: McGill University

3-C-60   **On the gradual construction of complex abstract representations in spatial problem solving**

Benjamin Angerer: University of Osnabrück

3-C-61   **Who needs more help? Sixteen-month-old infants prefer to look at and reach for helpers who help with harder tasks**

Brandon Matthew Woo: Harvard University; Shari Liu: Massachusetts Institute of Technology; Hyowon Gweon: Stanford University; Elizabeth Spelke: Harvard University

3-C-62   **The proceduralization of metacognitive skills**

Brendan Conway-SMassachusetts Institute of Technologyh: Carleton University; Robert West: Carleton University

3-C-63   **Interaction between action and cognition in creativity: Perception and Action-based Imagination (PAI) Framework**

Daichi Shimizu: Graduate School of Education; Takeshi Okada: The University of Tokyo

3-C-64   **Is it for all? Spatial abilities matter in processing gestures during the comprehension of spatial language**

Demet Özer: Koç University; Asli Ozyurek: Donders Institute ; Tilbe Göksun: Koç University

3-C-65   **Pragmatic bias and the learnability of semantic distinctions**

Dionysia Saratsli: University of Delaware; Anna Papafragou: Unversity of Pennsylvania

3-C-66   **Pre-training leads to a structural novelty effect in spatial visual statistical learning**

Dominik Garber: Central European University; Jozsef Fiser: Central European University

3-C-67   **Children infer the behavioral contexts of unfamiliar foreign songs**

Courtney B Hilton: Harvard University; Liam Crowley-de Thierry: Victoria University of Wellington; Rachel Yan: SMassachusetts Institute of Technologyh College; Alia Martin: Victoria University of Wellington; Samuel Mehr: Harvard University

3-C-68   **The learnability of goal-directedness in jazz music**

Daniel Harasim: École Polytechnique Fédérale de Lausanne; Timothy O'Donnell: McGill University; Martin Alois Rohrmeier: École Polytechnique Fédérale de Lausanne

3-C-69   Sustained attention in phonological form preparation: Evidence from highly associated word pairs
Alexandra K Frazer: Muhlenberg College

3-C-70   Pandemic panic: The effect of disaster-related stress on negotiation outcomes
Johnathan Mell: University of Central Florida; Gale Lucas: University of Southern California ; Jonathan Gratch: University of Southern California

3-C-71   Investigating scientific inquiry skills from process data
Tao Gong: Educational Testing Service; Yang Jiang: Educational Testing Service; Burcu Arslan: Educational Testing Service

3-C-72   Does mental simulation of alternative research outcomes reduce bias in predicted results?
Edward Munnich: University of San Francisco; Megan Schneider: University of San Francisco; Bresh Merino: University of San Francisco; Dana-Lis Bittner: University of California, Santa Cruz; Milo Alexander Martinez: University of San Francisco; Marci Adolfo: University of San Francisco; Erica Divinagracia: University of San Francisco

3-C-73   The function of function: People use teleological information to predict prevalence
Emily Foster-Hanson: Princeton University; Tania Lombrozo: Princeton University

3-C-74   Awareness motor intention and inhibitory control: the role of reactive and proactive components
Viola Benedetti: University of Florence; Giorgio Gronchi: University of Florence; Gioele Gavazzi: University of Florence; Riccardo Bravi: University of Florence; Stefano Grasso: University of Florence; Fabio Giovannelli: University of Florence; Maria Pia Viggiano: University of Florence

3-C-75   Implicit and explicit cognitive processes associated with COVID-19 mask-usage decisions
Grace Murray: Kent State University; Jennifer Roche: Kent State University; Christopher Willer: Kent State University; Bradley Morris: Kent State University

3-C-76   Dynamic action facilitates learning of non-adjacent dependencies in visual sequences
Helen Shiyang Lu: University of Southern California; Toby Mintz: University of Southern California

3-C-77   Effects of combining refutation and self-explanation on student learning
Jacob Salem: University of California San Diego; Emma H Geller: University of California San Diego

3-C-78   Perceptual similarity and learning from sequential statistics.
Jason Zevin: University of Southern California; Wendy Qi: University of Southern California

3-C-79   Visual statistical learning in the reading of unspaced Chinese sentences
Jenn-Yeu Chen: National Taiwan Normal University; Tsanyu Wang: National Taiwan Normal University

3-C-80   How do blind people know that blue is cold? Distributional semantics encode color-adjective associations.
Jeroen van Paridon: University of Wisconsin-Madison; Qiawen Liu: University of Wisconsin-Madison; Gary Lupyan: University of Wisconsin - Madison

3-C-81   How effective is perceptual training? Evaluating two perceptual training methods on a difficult visual categorisation task

Jessica Marris: University of Melbourne; Andrew Perfors: University of Melbourne; David Mitchell: Sligo University Hospital ; Wayland Wang: Royal Melbourne Hospital; Mark W McCusker: Royal Melbourne Hospital; Timothy John Haynes Lovell: The Royal Melbourne Hospital ; Robert N Gibson: Royal Melbourne Hospital; Frank Gaillard: University of Melbourne; Piers Douglas Howe: University of Melbourne

3-C-82   Affordances and grounding within concreteness fading when learning proof in STEM's geometry

John D McGinty: University of Wisconsin; Massachusetts Institute of Technologychell Nathan: University of Wisconsin - Madison

3-C-83   Competing goals in the construction and perception of moral narratives

Judy Kim: Yale University; Molly Crockett: Yale University

3-C-84   Leveraging rapid scene perception in attentional learning

Juliana D. Adema: University of Toronto; Shuran Tang: University of Toronto; Nahal Alizadeh Saghati: University of Toronto; Michael L. Mack: University of Toronto

3-C-85   Social structure and lexical uniformiy: A case study of gender differences in the Kata Kolok community

Katie Mudd: Vrije Universiteit Brussel; Hannah Lutzenberger: Radboud University; Connie De Vos: Tilburg University; Bart deBoer: VUB

3-C-86   Fast or efficient? Strategy selection in the game Entropy Mastermind

Lara Bertram: University of Surrey; Florian Elsäßer: Frankfurt School of Finance & Management; Albero Feduzi: University of Cambridge; Zsofia Gyarmathy: Frankfurt School of Finance & Management; Weronika Kowalik: University of Surrey; Aaliyah Onojaife: University of Surrey; Mohab Elkaref: IBM Research; Eloisa Bentivegna: IBM Research; Jonathan D. Nelson: University of Surrey

3-C-87   Exemplar account for category variability effect: Single category based categorization

Lee-Xieng Yang: National Chengchi University; Tai-Lun Huang: National Chengchi University

3-C-88   Mental representation of budgeting categories

Lin Fei: University of Chicago; Daniel Bartels: University of Chicago

3-C-89   "Fringe" beliefs aren't fringe

Louis Marti: UC Berkeley; Celeste Kidd: University of California, Berkeley

3-C-90   Memory performance in special forces: Speedier responses explain improved retrieval performance after physical exertion

Maarten van der Velde: University of Groniningen; 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

3-C-91   Do I trust you more if you speak like me?

Magdalena Schwarz: University of Vienna ; Theresa Matzinger: University of Vienna; Nikolaus Ritt Ritt: University of Vienna

3-C-92 **Do time constraints re-prioritize attention to shapes during visual photo inspection?**

Yiyuan Yang: Vanderbilt University; Kenneth Li: Vanderbilt University; Fernanda Eliott: Grinnell College; Maithilee Kunda: Vanderbilt University

3-C-93 **Let's talk structure: the positive consequences of structural representations**

Marianna Y. Zhang: Stanford University; Ellen M Markman: Stanford University

3-C-94 **Thinking about thinking through inverse reasoning**

Marlene Berke: Yale University; Julian Jara-Ettinger: Yale University

3-C-95 **Does the spacing effect depend on prior knowledge? Evaluating the role of word familiarity in learning from spaced vs. massed schedules**

Melina Lauryn Knabe: University of Wisconsin-Madison; Haley Vlach: University of Wisconsin-Madison

3-C-96 **Change of body representation in symmetric body parts**

Miki Matsumuro: Ritsumeikan University; Hikari Kobayashi: Ritsumeikan University; Fumihisa Shibata: Ritsumeikan University; Asako Kimura: Ritsumeikan Univ.

3-C-97 **The statistical properties of color and shape of objects in visual categorization**

Marco A. Flores-Coronado: UAEM; Angel Eugenio Tovar: UNAM; David Morales Andrade: UNAM

3-C-98 **Competence assessment by stimulus matching: An application of GOMS to assess chunks in memory**

Hadeel Ismail: University of Sussex; Peter Cheng: University of Sussex

3-C-99 **Episodic memory cues in acquisition of novel visual-phonological associations: A webcam-based eye-tracking study**

Simone L Calabrich: Bangor University; Gary M. Oppenheim: Bangor University; Manon W Jones: Bangor University

3-C-100 **The effectiveness of face-name mnemonics on name recall**

Yashoda Gopi: University of Nottingham; Edward Wilding: University of Birmingham; Christopher R Madan: University of Nottingham

3-C-101 **Do humans recalibrate the confidence of advisers?**

Oana Stanciu: Central European University; Jozsef Fiser: Central European University

3-C-102 **Solid ground makes solid understandings: does simple comparison paves the way for more complex comparisons?**

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

3-C-103 **Linguistic distributional information about object labels affects ultrarapid object categorization**

Rens van Hoef: Lancaster University; Louise Connell: University of Lancaster; Dermot Lynott: Lancaster University

3-C-104 **Need for speed: Applying ex-Gaussian modeling techniques to examine intra-individual reaction time variability in expert Tetris players**

Ropafadzo Denga: Rensselaer Polytechnic Institute

3-C-105   **'Decoding' the locus of spatial representation from simple localization errors**

Sami R Yousif: Yale University; Frank Keil: Yale University

3-C-106   **Dynamic perception revealed by cursor movements and hidden markov modeling**

Samuel Harding: Syracuse University; Richard Shiffrin: Indiana University

3-C-107   **The role of counterfactual reasoning in responsibility judgments**

Sarah Wu: Stanford University; Tobias Gerstenberg: Stanford University

3-C-108   **Is children's norm learning rational? A meta-analysis**

Scott Partington: Cornell University; Shaun Nichols: Cornell University; Tamar Kushnir: Cornell University

3-C-109   **The interplay between local and global strategies in navigational decisions**

Serena DeStefani: Rutgers University; Samuel S Sohn: Rutgers University; Adeeb Kabir: Rutgers University - New Brunswick; Mubbasir Kapadia: Rutgers University; Jacob Feldman: Rutgers University

3-C-110   **Efficient adaptation to listener proficiency: The case of referring expressions**

Shira Tal: Hebrew University of Jeruslaem; Eitan Grossman: Hebrew University of Jerusalem; Hannah Rohde: University of Edinburgh; Inbal Arnon: Hebrew University of Jerusalem

3-C-111   **Deconstructing the Label Advantage Effect**

Teun van Gils: Max Planck Institute for Psycholinguistics; Guillermo Montero-Melis: Max Planck Institute for Psycholinguistics; Peter Hagoort Hagoort: Max Planck Institute for Psycholinguistics; Markus Ostarek: Max Planck Institute for Psycholinguistics

3-C-112   **Are you talking about me? A pilot investigation of how gender modulates the effects of self-relevance and valence on emotional feelings**

Madison Marie Lebel: University of Waterloo; Tiffany Doan: University of Waterloo; Sarah D McCrackin: University of Waterloo; Stephanie Denison: University of Waterloo ; Roxane Itier: University of Waterloo

3-C-113   **Causal learning with delays up to 21 hours**

Yiwen Zhang: University of Pittsburgh; Benjamin Rottman: University of Pittsburgh

3-C-114   **Individual differences in deepfake detection: Mindblindness and political orientation**

Zachary R Tidler: Georgia Institute of Technology; Richard Catrambone: Georgia Institute of Technology

3-C-115   **Understanding image sequences via narrative sensemaking**

Zev Battad: Rensselaer Polytechnic Institute; Mei Si: Rensselaer Polytechnic Institute

D - Education, development and perspectives in cognitive science

3-D-116   **Productive failure and student emotions**

Zachary M. Savelson: Carleton University; Kasia Muldner: Carleton University

3-D-117   **Explaining algorithm aversion with metacognitive bandits**

Aakriti Kumar: University of California, Irvine; Trisha Patel: University of Illinois at Urbana-Champaign; Aaron S Benjamin: University of Illinois at Urbana-Champaign; Mark Steyvers: University of California, Irvine

3-D-118   **Vocal patterns in schizophrenia: toward a cumulative approach**

Alberto Parola: Aarhus University; Simonsen Arndis: Aarhus University; Bliksted Vibeke: Aarhus

University; Yuan Zhou: Chinese Academy of Sciences; Shiho Ubukata: Kyoto University; Katja Koelkebeck: Hospital and Institute of the University of Duisburg-Essen; Riccardo Fusaroli: Aarhus University

3-D-119　　　　**State vs. Trait: Examining gaming the system in the context of math perception tasks**
Anthony Botelho: Worcester Polytechnic Institute; Jenny Yun-Chen Chan: Worcester Polytechnic Institute; Cindy Trac: Worcester Polytechnic Institute; Avery Harrison Closser: Worcester Polytechnic Institute; Hannah Smith: Worcester Polytechnic Institute; Kathryn C Drzewiecki: Worcester Polytechnic Institute; Erin Ottmar: Worcester Polytechnic Institute

3-D-120　　　　**The construct and criterion validity of a cognitive game-based assessment: Cognitive control, academic achievement, and prefrontal cortex connectivity**
Aria S Tsegai-Moore: Stony Brook University; Anna Fisher: Carnegie Mellon University; Cassondra M Eng: Carnegie Mellon University

3-D-121　　　　**Joint action in deaf and hearing toddlers: A mobile eye-tracking study**
Claire Monroy: The Ohio State University Wexner Medical Center; Derek Houston: Ohio State University Wexner Medical Center; Chen Yu: University of Texas at Austin

3-D-122　　　　**Unifying models for belief and syllogistic reasoning**
Daniel Brand: University of Freiburg; Nicolas Oliver Riesterer: University of Freiburg; Marco Ragni: University of Freiburg

3-D-123　　　　**Do infants infer prosocial goals from disadvantageous payoffs in joint action?**
Denis Tatone: Central European University; Barbara Pomiechowska: Central European University; Laura Schlingloff: Central European University; Gergely Csibra: Central European University

3-D-124　　　　**Humorous judgments of incongruity in short internet videos**
Zachary A. Haines: Kent State University; Jennifer Roche: Kent State University

3-D-125　　　　**Effect of formative feedback on the metacognitive debugging strategy using polling technologies**
Dalia Patricia Madera: Universidad de Córdoba; Sara Blanco: Universidad de Córdoba

3-D-126　　　　**Children's generalization of novel relational nouns in comparison contexts: An eye tracking analysis**
Eleanor Stansbury: University Bourgogne Franche-Comté; Arnaud Witt: University of Bourgogne Franche-Comté; Jean-Pierre Thibaut: University of Bourgogne Franche-Comté

3-D-127　　　　**The Omniglot Jr. challenge; Can a model achieve child-level character generation and classification?**
Eliza Kosoy: University of California, Berkeley ; Masha Belyi: University of California, Berkeley; Charlie Victor Snell: University of California, Berkeley; Brenden Lake: NYU; Josh Tenenbaum: Massachusetts Institute of Technology; Alison Gopnik: University of California, Berkeley

3-D-128　　　　**The importance of stability in children's and adults' block-building**
Emory Davis: Johns Hopkins University; Jonathan Jones: Johns Hopkins University; Kiley K McKee: Northwestern University; Amy Lynne Shelton: Johns Hopkins University; Barbara Landau: Johns Hopkins University

3-D-129   You can't trust an angry group: asymmetric evaluations of angry and surprised rhetoric affect confidence in trending opinions

Emory Richardson: Yale University; Frank Keil: Yale University

3-D-130   Beliefs are most swayed by social prevalence under uncertainty

Evan Orticio: University of California, Berkeley; Louis Marti: University of California, Berkeley; Celeste Kidd: University of California, Berkeley

3-D-131   Do judgments of learning and judgments of inference enhance text learning?

Hyorim Ha: Yonsei University; Hee Seung Lee: Yonsei University

3-D-132   Passive versus active: Frameworks of active learning for linking humans to machines

Jaeseo Lim: Seoul National University; Hwiyeol Jo: Seoul National University; Byoung-Tak Zhang: Seoul National University; Jooyong Park: Department of Psychology

3-D-133   Numbers vs. Variables: The effect of symbols on students' math problem-solving

Jenny Yun-Chen Chan: Worcester Polytechnic Institute; Hannah Smith: Worcester Polytechnic Institute; Avery Harrison Closser: Worcester Polytechnic Institute; Kathryn C Drzewiecki: Worcester Polytechnic Institute; Erin Ottmar: Worcester Polytechnic Institute

3-D-134   Unveiling unconscious biases and stereotypes in students: The necessity of self-reflection in Higher Education

Tabea Berberena: University of Stuttgart; Maria Wirzberger: University of Stuttgart

3-D-135   Investigating the utility of prompting novice programmers for self-explanations to improve mental models

Veronica S Chiarelli: Carleton University; Kasia Muldner: Carleton University

3-D-136   Mechanisms of early causal reasoning: Investigating infants' sensitivity to confounded information in a causal reasoning task, using EEG and eyetracking

Katarina Begus: Harvard University; Elizabeth Bonawitz: Harvard University

3-D-137   Creating a safe environment for text donation: towards a truly informed consent

Katarzyna Skowrońska: University of Warsaw; Krzysztof Główka: University of Warsaw; Katarzyna Joanna Koprowska: University of Warsaw; Konrad Zieliński: University of Warsaw; Justyna Śnieżek: University of Warsaw; Anna Boros: University of Warsaw; Joanna Rączaszek-Leonardi: University of Warsaw

3-D-138   Meta-strategy learning in physical problem-solving: the effect of embodied experience

Kelsey R Allen: Massachusetts Institute of Technology; Kevin A SMassachusetts Institute of Technologyh: Massachusetts Institute of Technology; Laura-Ashleigh Bird: Durham University; Josh Tenenbaum: Massachusetts Institute of Technology; Tamar Makin: University College London; Dorothy Cowie: Durham University

3-D-139   Preschoolers' learning of words with emotional variability in shared book reading

Michelle Lynn Luna: University of California, Los Angeles; Marissa Ogren: University of California, Los Angeles

3-D-140   Bridging executive function and metacognition through post-error slowing

Yiqiong Yang: University of Cambridge; Michelle Ellefson: University of Cambridge

**3-D-141	Tracking what matters: A decision-variable account of human behavior in bandit tasks**

Vishwajeet Agrawal: Indian Institute of Technology, Delhi; Pradeep Shenoy: Google Research India

**3-D-142	Individuals with high kinesthetic intelligence experience an active embodiment illusion assessed with pupil dilation**

Sara Falcone: University of Twente; Saket Sachin Pradhan: University of Twente; Jan Van Erp: University of Twente; Dirk Heylen: University of Twente

**3-D-143	Bayesian experimental design for intractable models of cognition**

Simon Valentin: University of Edinburgh; Steven Kleinegesse: University of Edinburgh; Neil R Bramley: University of Edinburgh; Michael Gutmann: University of Edinburgh; Chris Lucas: University of Edinburgh

**3-D-144	Unpacking the computations of human spatial search under uncertainty: noisy utility maximization, discounting, and probability warping**

Suhyoun Yu: Massachusetts Institute of Technology; Marta Kryven: Massachusetts Institute of Technology; Josh Tenenbaum: Massachusetts Institute of Technology; Max Kleiman-Weiner: Massachusetts Institute of Technology

**3-D-145	Cognitive strategies for parameter estimation in model exploration**

Sungeun An: Georgia Institute of Technology; Spencer Rugaber: Georgia Institute of Technology; Emily Weigel: Georgia Institute of Technology; Ashok Goel: Georgia Institute of Technology

**3-D-147	Testing the altercentrism hypothesis in young infants**

Velisar Manea: University of Copenhagen; Dora Kampis: University of Copenhagen; Charlotte Grosse Wiesmann: Max Planck Institute for Human Cognitive and Brain Sciences; Barbu Revencu: Central European University; Victoria Southgate: Copenhagen University

**3-D-148	Development of self and other's body perception; Effects of familiarity and gender on how children perceive adults**

Trinidad Belén Speranza: National Scientific and Technical Research Council; Sofia Abrevaya: National Scientific and Technical Research Council; Maria de Guadalupe Perez Cano: Universidad Catolica Argentina ; Verónica Ramenzoni: National Scientific and Technological Council of Argentina

**3-D-149	Modeling human planning in a life-like search-and-rescue mission**

Zhutian Yang: Massachusetts Institute of Technology; Marta Kryven: Massachusetts Institute of Technology; Howard Shrobe: Massachusetts Institute of Technology; Josh Tenenbaum: Massachusetts Institute of Technology

E - Linguistics

**3-E-150	Linguistic metaphors shape attitudes towards immigration**

Ana Chkhaidze: University of California, San Diego; Parla Buyruk: University of California, San Diego; Lera Boroditsky: University of California, San Diego

**3-E-151	Infants combine kind and quantity concepts**

Barbara Pomiechowska: Central European University; Erno Teglas: Central European University; Agnes Kovacs: Central European University

3-E-152   Compositionality, modularity, and the architecture of the language faculty

Bob van Tiel: Radboud University; Mark Blokpoel: Donders Institute for Brain, Cognition and Behaviour; Iris van Rooij: Radboud University; Andrea E Martin: Max Planck Institute for Psycholinguistics

3-E-153   Judgement of political statements are influenced by speaker identity

Brian Bi: University of California, Berkeley; Louis Marti: University of California, Berkeley; David O'Shaughnessy: University of California, Berkeley; Celeste Kidd: University of California, Berkeley

3-E-154   The greedy and recursive search for morphological productivity

Caleb A. Belth: University of Michigan; Sarah R B Payne: University of Pennsylvania; Deniz Beser: University of Southern California; Jordan Kodner: University of Pennsylvania; Charles Yang: University of Pennsylvania

3-E-155   The role of physical inference in pronoun resolution

Cameron R Jones: University of California, San Diego; Benjamin Bergen: Univerity of California, San Diego

3-E-156   The online advantage of repairing metrical structure: Stress shift in pupillometry

Canaan Breiss: Universty of California, Los Angeles; Jesse Harris: University of California, Los Angeles; Amanda Rysling: University of California Santa Cruz

3-E-157   Listeners can use coarticulation cues to predict an upcoming novel word

Charlotte E Moore: Duke University; Elika Bergelson: Duke University

3-E-158   Speakers use more informative referring expressions to describe surprising events

Christian Stegemann-Philipps: University of Tübingen; Martin V. Butz: University of Tuebingen; Susanne Winkler: University of Tübingen; Asya Achimova: University of Tübingen

3-E-159   Is iconic language more vivid?

David M Sidhu: University College London; Gabriella Vigliocco: University College London

3-E-160   Episodic memory demands modulate novel metaphor use during event narration

Vesna G. Djokic: GoldsMassachusetts Institute of Technologyhs, University of London; Ekaterina Shutova: University of Amsterdam; Verna Dankers: University of Edinburgh

3-E-161   Grounding word learning across situations

Ryan Gabbard: University of Southern California, Information Sciences Institute; Jacob A Lichtefeld: University of Southern California; Deniz Beser: University of Southern California; Joe Cecil: University of Southern California, Information Sciences Institute; Mitch Marcus: University of Pennsylvania; Sarah R B Payne: University of Pennsylvania; Charles Yang: University of Pennsylvania; Marjorie Freedman: University of Southern California, Information Sciences Institute

3-E-162   An information and coding theoretical approach to combinatorial communication

Sabrina Engesser: University of Vienna; Tecumseh Fitch: University of Vienna

3-E-163   Preferences in the quantified description of visual groups

Gordon Briggs: U.S. Naval Research Laboratory; Hillary Harner: US Naval Research Laboratory; Sangeet Khemlani: Naval Research Laboratory

3-E-164   **Desires can conflict with intentions; plans cannot**
Hillary Harner: US Naval Research Laboratory; Sangeet Khemlani: Naval Research Laboratory

3-E-165   **The sound of pedagogical questions**
Igor Bascandziev: Rutgers University, Newark; Patrick Shafto: Rutgers University, Newark; Elizabeth Bonawitz: Harvard Graduate School of Education

3-E-166   **Competition from novel features drives scalar inferences in reference games**
Jennifer Hu: Massachusetts Institute of Technology; Noga Zaslavsky: Massachusetts Institute of Technology; Roger Levy: Massachusetts Institute of Technology

3-E-168   **CoViDisgust: Language comprehension at the intersection of a global pandemic and individual disgust sensitivity**
Juhani Järvikivi: University of Alberta; Veranika Puhacheuskaya: University of Alberta; Isabell Hubert Lyall: University of Alberta

3-E-169   **Re-examining cross-cultural similarity judgements using lexical co-occurrence**
Khuyen Nha Le: Stanford University; Alexandra Carstensen: Stanford University; Michael C. Frank: Stanford University

3-E-170   **Lions, tigers and bears: Conveying a superordinate category without a superordinate label**
Lilia Rissman: University of Wisconsin – Madison; Gary Lupyan: University of Wisconsin - Madison

3-E-171   **Recognition of minimal pairs in (un)predictive sentence contexts in two types of noise**
Marjolein van Os: Saarland University; Jutta Kray: Saarland University; Vera Demberg: Saarland University

3-E-172   **Peekbank: Exploring children's word recognition through an open, large-scale repository for developmental eye-tracking data**
Martin Zettersten: Princeton University; Claire Augusta Bergey: The University of Chicago; Naiti S Bhatt: Scripps College; Veronica Boyce: Stanford University; Mika Braginsky: Massachusetts Institute of Technology; Alexandra Carstensen: Stanford University; Benjamin deMayo: Princeton University; George Kachergis: Stanford University; Molly Lewis: Carnegie Mellon University; Bria Long: Stanford University; Kyle MacDonald: McD Tech Labs; Jessica Mankewitz: Stanford University; Stephan C. Meylan: MIT; Annissa Noor Saleh: University of Texas at Austin; Rose M. Schneider: UC San Diego; Angeline Sin Mei Tsui: Stanford University; Sarp Uner: Duke University; Tian Linger Xu: Indiana University; Dan Yurovsky: Carnegie Mellon University; Michael C. Frank: Stanford University

3-E-173   **English negative constructions and communicative functions in child language**
Zoey Liu: Boston College; Masoud Jasbi: University of California, Davis

3-E-174   **Growing knowledge culturally across generations to solve novel, complex task**
Michael Henry Tessler: Massachusetts Institute of Technology; Pedro Tsividis: Massachusetts Institute of Technology; Jason Madeano: Massachusetts Institute of Technology; Brin Harper: Massachusetts Institute of Technology; Josh Tenenbaum: Massachusetts Institute of Technology

3-E-175   **Modeling speech act development in early childhood: The role of frequency and linguistic cues**

Massachusetts Institute of Technologyja Nikolaus: Aix-Marseille University; Juliette Maes: Aix Marseille University; Abdellah Fourtassi: Aix-Marseille University

3-E-176   Persian collective nouns enhance ensemble size perception
Mohsen Dolatabadi: Tarbiat Modares University Of Tehran; Mehrdad Dowlatabadi: Sharif University of Technology

3-E-177   Who thinks wh-questions are exhaustive?
Morgan Moyer: Stanford University; Judith Degen: Stanford University

3-E-178   Electrophysiological signatures of multimodal comprehension in second language
Ye Zhang: University College London; Rong Ding: Max Planck Institute for Psycholinguistics; Diego Frassinelli: University of Konstanz; Jyrki Tuomainen: University College London; Sebastian Klavinskis-whiting: Oxford University; Gabriella Vigliocco: University College London

3-E-179   From alien zoo to spy school: A preregistered study of linguistic sound symbolism and its links to reading in 8-year-olds
Fei Ting Woon: Nanyang Technological University; De Fu Yap: Nanyang Technological University; Cai Shirong: Singapore Institute for Clinical Sciences (SICS A*Star); Evelyn C Law: National University Hospital; Lourdes Mary Daniel: KK Women's and Children's Hospital; Suzy J. Styles: Nanyang Technological University

3-E-180   Processing differences among irregular inflection classes
Maya C Watt: McGill University; Mika Braginsky: Massachusetts Institute of Technology; Timothy O'Donnell: McGill University

3-E-181   Anaphoric distance dependencies in the sequential structure of wordless visual narratives
Neil Cohn: Tilburg University

3-E-182   Lightness and darkness are mentally represented during language processing
Oleksandr V. Horchak: Iscte - Instituto Universitário de Lisboa; Margarida V. Garrido: Iscte - Instituto Universitário de Lisboa

3-E-183   Metaphors embedded in Chinese characters bridge dissimilar concepts
Qiawen Liu: University of Wisconsin-Madison; Song Jing: University of Wisconsin-Madison; Gary Lupyan: University of Wisconsin - Madison

3-E-184   Distribution of unidimensional space in the LSU time lexicon
Mauricio Castillo: Universidad de la República; Alejandro Fojo: Universidad de la República; Roberto Aguirre: Universidad de la República

3-E-185   The identity of the partner matters even when naming everyday objects
Si On Yoon: University of Iowa; Breanna Brigitte Pratley Pratley: University of Toronto; Daphna Heller: University of Toronto

3-E-186   Aesthetic perception of prosodic patterns as a factor in speech segmentation
Theresa Matzinger: University of Vienna; Eva Specker: University of Vienna; Nikolaus Ritt Ritt: University of Vienna; Tecumseh Fitch: University of Vienna

3-E-187   **Do you hear how BIG it is? Iconic prosody in child directed language supports language acquisition**

Viktor Kewenig: University College London; Ricarda Brieke: University College London; Yan Gu: University College London; Gabriella Vigliocco: University College London

3-E-188   **Is there a predictability hierarchy in reference resolution?**

Weijie Xu: University of Chicago; Ming Xiang: University of Chicago

3-E-189   **Associative learning of new word forms in a first language and haptic features in a single-day experiment**

Yutao Yang: Hiroshima University; Yan Yan: Hiroshima University; Misa Ando: HIroshima University; Xinyi Liu: Hiroshima University; Toshimune Kambara: Hiroshima University

3-E-190   **Word order affects the frequency of adjective use across languages**

Zeinab Kachakeche: UC Irvine; Richard Futrell: UC Irvine; Gregory Scontras: UC Irvine

F - Neuroscience

3-F-191   **Gene expression under human self-domestication: an in silico exploration of modern human high-frequency variants**

Thomas O'Rourke: University of Barcelona; Pedro Tiago Martins: University of Barcelona; Alejandro M. Andirko: University of Barcelona

3-F-192   **The human visual system spontaneously computes approximate number**

Che Lucero: Cornell University; Colin T Quirk: The University of Chicago; Susan Goldin-Meadow: University of Chicago; Edward Vogel: University of Chicago; Daniel Casasanto: Cornell University

3-F-193   **Distributed semantics in a neural network model of human speech recognition**

Kevin Brown: Oregon State University; Nicholas R Monto: University of Connecticut; Jay Rueckl: University of Connecticut; James Magnuson: University of Connecticut

3-F-194   **Expertise modulates neural tracking of dance and sign language**

Geoffrey Brookshire: University of Birmingham; Heather Harden Mangelsdorf: Elmhurst University; Clara Sava-Segal: Dartmouth College; Katherine Reis: University of Chicago; Howard Nusbaum: University of Chicago; Susan Goldin-Meadow: University of Chicago;

3-F-195   **Biological motion perception under attentional load**

Hilal Nizamoglu: Bilkent University; Burcu A. Urgen: Bilkent University

3-F-196   **network dynamics of scientific knowledge reveal a single conceptual core that declines over time**

Kara Kedrick: University of Minnesota; Ekaterina Levitskaya: New York University; Russell Funk: University of Minnesota

3-F-197   **SUSTAIN captures category learning, recognition, and hippocampal activation in a unidimensional vs information-integration task**

Lenard Dome: University of Plymouth; Charlotte Edmunds: Queen Mary; Andy J Wills: Plymouth University

3-F-198   **AgeNet: A neurobiological model of age-related word retrieval deficits**

David Alberto Neville: Donders Institute for Brain, Cognition and Behavior; Hartmut Fitz: Radboud University; Meredith Shafto: Pomona College

3-F-199   **Contribution of receptive field center and surround to repetition suppression in macaque visual area V2**

Nathaniel Williams: Carnegie Mellon University; Carl Olson: Carnegie Mellon University

3-F-200   **Time course of EEG oscillations during creative problem solving**

Théophile Bieth: Institut du Cerveau (ICM), Sorbonne Université; Marcela Ovando Tellez: Institut du Cerveau (ICM), Sorbonne Université; Alizée Lopez-Persem: Institut du Cerveau (ICM), Sorbonne Université; Béatrice Garcin: Neurology department, Avicenne ho

3-F-201   **Hippocampal replay as context-driven memory reactivation**

Zhenglong Zhou: University of Pennsylvania; Michael Kahana: University of Pennsylvania; Anna Schapiro: University of Pennsylvania

G - Philosophy

3-G-202   **Do ancient philosophies help us understand modern psychologies?**

Amritpal M.P. Singh: Cornell University; Daniel Casasanto: Cornell University

3-G-203   **Logic programs as executable experimental task specifications**

Can Mekik: Rensselaer Polytechnic Institute

3-G-204   **How hard is cognitive science?**

Patricia Rich: University of Bayreuth; Ronald de Haan: University of Amsterdam; Todd Wareham: Memorial University of Newfoundland; Iris van Rooij: Radboud University

3-G-205   **The role of mindreading in a pluralist framework of social cognition**

Julia Wolf: Ruhr University Bochum; Sabrina Coninx: Institute for Philosophy II

3-G-206   **Emotions as the product of body and mind: The hierarchical structure of folk concepts of mental life among US adults and children**

Kara Weisman: Stanford University; Carol Dweck: Stanford University; Ellen M Markman: Stanford University

H - Psychological science

3-H-207   **The relationship between mental imagery vividness and blind reaching performance**

Aaron Necaise: University of Central Florida; John Sermarini: University of Central Florida; Joseph T Kider Jr.: University of Central Florida; Daniel S McConnell: University of Central Florida; Mary Jean Amon: University of Central Florida

3-H-208   **Why people err on multiple-choice analogical reasoning tests**

Adam Chuderski: Jagiellonian University; Bartłomiej Kroczek: Jagiellonian University

3-H-209   **The effect of evidentiality markers on the survival processing effect**

Burcu Arslan: Koç University; Tilbe Göksun: Koç University; Çağlar Akçay: Koç University

3-H-210   **Perceptual and memory metacognition in children**

Carolyn Baer: University of California Berkeley

3-H-211   **Why belief in species purpose prompts moral condemnation of individuals who fail to fulfill that purpose**

Casey Lewry: Princeton University; Deborah Kelemen: Boston University; Tania Lombrozo: Princeton University

3-H-212   **Looking at the pragmatics of laughter**

Chiara Mazzocconi: Institute of Language, Communication and the Brain - ILCB; Vladislav Maraev: University of Gothenburg; Vidya Somashekarappa: University of Gothenburg; Christine Howes: University of Gothenburg

3-H-213   **Approximate division on multiple visual ensembles**

Chuyan Qu: University of Pennsylvania; Elizabeth M Brannon: University of Pennsylvania

3-H-214   **Exploring the structure and grounding of concrete and abstract categories**

Briony Banks: Lancaster University; Louise Connell: University of Lancaster

3-H-215   **Can 1- and 2-year-old toddlers learn causal action sequences?**

Emma C Tecwyn: Birmingham City University; Nafisa Mahbub: University of Toronto; Nishat Kazi: University of Toronto; Daphna Buchsbaum: Brown University

3-H-216   **A demonstration of the positive manifold of cognitive test inter-correlations, and how it relates to general intelligence, modularity, and lexical knowledge**

Graham Pluck: Nazarbayev University; Antonio Cerone: Nazarbayev University

3-H-217   **Does anything predict anchoring bias?**

Matthew Brian Welsh: University of Adelaide

3-H-218   **A model of timing in simple anticipatory decisions**

Alexander Wurm: University of Florida; Konstantina Sokratous: University of Florida; Guy Hawkins: University of Newcastle; Peter Kvam: University of Florida

3-H-219   **Blame the player and the game**

Drew Walker: University of California, San Diego; Ed Vul: University of California, San Diego

3-H-220   **The mystery of early taxonomic development**

Hyungwook Yim: Hanyang University; Olivera Savic: The Ohio State University; Alexandria Barkhimer: The Ohio State University; Vladimir Sloutsky: The Ohio State University; Simon Dennis: The University of Melbourne

3-H-221   **Does encouraging gesture use help us connect remote associations?: The role of mental imagery**

Gyulten Hyusein: Koç University; İrem Türkmen: Koc University; Melek Öyküm Yalçın: Yeditepe University; Sarp Özdemir: Koç University; Tilbe Göksun: Koç University

3-H-222   **Experts interpret generalizations differently than novices**

Jeff Coon: UC Irvine; Alexander Etz: University of California, Irvine; Gregory Scontras: University of Irvine; Barbara W Sarnecka: University of California-Irvine

3-H-223   Mind over body: investigating cognitive control of cycling performance with dual-task interference

Johanne Nedergaard: Aarhus University; Mikkel Wallentin: Aarhus University

3-H-224   Studying science denial with a complex problem-solving task

Justin Sulik: LMU; Ryan McKay: Royal Holloway, University of London

3-H-225   Auditory, temporal, and visual sensory discrimination advantage of musicians

Maria Kubaszek: Jagiellonian University in Cracow; Jan Jastrzebski: Jagiellonian University; Adam Chuderski: Jagiellonian University

3-H-226   Temporal continuity and the judgment of actual causation

Aurélien Fermo: École normale supérieure; Charles Kemp: University of Melbourne

3-H-227   Dual processes on dual dimensions: Associative and propositionally-mediated discrimination and peak shift

Toby D Johnson: University of Exeter; R.P. McLaren: University of Exeter; Ciro Civile: University of Exeter; IPL McLaren: University of Exeter

3-H-228   Exploring mental representation with a memory matching game

Paul Thibodeau: Oberlin College; Isaac Levy: Oberlin College; Mikaela de Lemos: Oberlin College

3-H-229   How face mask in COVID-19 pandemic disrupts face learning and recognition in adults with autism spectrum disorder?

Ricky Van-yip Tso: The Education University of Hong Kong; Celine On Hang Chui: The Education University of Hong Kong; Janet Hsiao: University of Hong Kong

3-H-230   Tangled physics: Knots as a challenge for physical scene understanding

Sholei Croom: Johns Hopkins University; Chaz Firestone: Johns Hopkins University

3-H-231   Folk theory of epidemics: Insights from a 14-day diary study during COVID-19

Yilong Lu: Peking University; Yangfan Lu: Peking University; Zhuo Rachel Han: Department of Psychology, Beijing Normal University; Shaozheng Qin: Beijing Normal University; Xin Zhang: Peking University; Li Yi: Peking University; Hang Zhang: Peking University

3-H-232   Is the emotional mapping of lines caused by the motion they imply?

Yuanqi Hu: Jiangnan University; Ruimin Lyu: Jiangnan University; Xinya Liu: Jiangnan University

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