Organizers:
Dr. Jennifer Culbertson,
Prof. Andrew Perfors,
Dr. Hugh Rabagliati, &
Dr. Veronica Ramenzoni

27 – 30 July 2022
Toronto, Ontario, Canada

Program for the 44th Annual Meeting of the Cognitive Science Society

#CogSci2022 bit.ly/3N55tRP
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DEAR COLLEAGUES

Welcome to the 44th Annual Conference of the Cognitive Science Society! After two years of virtual conferences, this will be our first fully hybrid meeting. We are excited to see many of you in person, and very happy that many more will be able to join us remotely.

This year’s conference brings together the latest research across all of Cognitive Science and also highlights the theme of Cognitive Diversity. Our plenaries and symposia showcase the importance of diversity at multiple levels for cognitive science today. We examine how investigating cognition across human populations contributes to our understanding of diverse ways of thinking and communicating---as well as underlying commonalities. We explore how social cognition operates in diverse societies. And we examine the role of cognitive science in addressing some of the major challenges of our increasingly globalized world. These themes are addressed through plenaries by Emily M. Bender, Yoshihisa Kashima, and Neil Lewis, Jr., as well as three invited symposia and a special symposium and workshop organized by the SPARK Society.

In addition, the programme includes a keynote presentation by the Rumelhart Prize winner Michael Tomasello, a symposium to celebrate Frank Ramus (the winner of the Elman Prize), and a symposium for the Robert J. Glushko Dissertation Awards. The contributed programme reports the latest ideas and discoveries in cognitive science, through a combination of longer spoken presentations, in-person posters, remote flash talks, workshops, tutorials, and symposia.

Our new hybrid set-up is designed to make the conference accessible to all. Spoken sessions will all be a mix of in-person and remote speakers, while remote audience members will be able to easily contribute and ask questions. In-person posters have been reintroduced, and we also have a novel flash talk format in place of remote poster sessions. These 5 minute talks plus question periods allow presenters to concisely explain their research to a wide audience. Finally, all presentations will be uploaded to the Underline system for access in posterity.

We are all thrilled to see this event come together, and hope that you enjoy it!
ACKNOWLEDGMENTS

We are extremely grateful to everyone who contributed to the planning and organization of this year’s Cognitive Science hybrid meeting. This includes all authors who submitted their contributions, and especially the 959 reviewers and 158 meta-reviewers who generously donated their expertise and time to evaluate the submissions.

Planning for this conference began in October 2020, and it could not have been organized without the advice of Anna Papafragou and Kenny Smith (as Chairs of the Society) and Anna Drummey and Erica Wojcik (as Executive Officers). The staff at Podium Conferences, particularly Lauren Moline, made conference logistics look easy, while David Cserjan proved a master at handling PCS.

We also thank the many Committee Members who reviewed member abstracts, symposia, and workshops, decided on conference awards, and assembled teams of volunteers. We list all of these people in the following pages.

The transition to a hybrid conference has been a major challenge, helped by the contribution of a large number of people - and the willingness of the Cognitive Science Society to underwrite its considerable expense. For their work in planning this we are grateful to Stephanie Denison, Charles Kemp, Abhilasha Kumar, Anna Papafragou, Lilia Rissman, Michelle Smith and Lauren Moline at Podium, and particularly Kenny Smith.

Finally, we are grateful to the Cognitive Science Society and to the sponsors of this conference, including The Robert J. Glushko and Pamela Samuelson Foundation, Duolingo and Finding Five, as well as the Exhibitors, for their support.

Enjoy this hybrid conference and, if you are visiting, enjoy Toronto!

Your Program Co-Chairs,

Jennifer Culbertson, University of Edinburgh
Andrew Perfors, University of Melbourne
Hugh Rabagliati, University of Edinburgh
Veronica Ramenzoni, CONICET-Buenos Aires
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<td>Michelle Smith</td>
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PROGRAM COMMITTEE

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COGSCI 2022 ORGANIZERS

Dr. Jennifer Culbertson *Edinburgh*
Experimental linguist, cognitive scientist and Reader in the Centre for Language Evolution at the University of Edinburgh

Prof. Andrew Perfors *Melbourne*
Deputy Director of the Complex Human Data Hub in the University of Melbourne School of Psychological Sciences.

Dr. Hugh Rabagliati *Edinburgh*
Reader in the School of Philosophy, Psychology & Language Sciences at the University of Edinburgh, where he studies language development and psycholinguistics, with a focus on words and their meanings.

Dr. Veronica Ramenzoni *CONICET - Buenos Aires*
Experimental psychologist, cognitive scientist, and researcher at the National Scientific and Research Council in Argentina.
ABOUT THE COGNITIVE SCIENCE SOCIETY

The Cognitive Science Society brings together researchers from around the world who hold a common goal: understanding the nature of the human mind. The mission of the Society is to promote Cognitive Science as a discipline, and to foster scientific interchange among researchers in various areas of study, including Artificial Intelligence, Linguistics, Anthropology, Psychology, Neuroscience, Philosophy, and Education. The Society is a non-profit professional organization and its activities include sponsoring an annual conference and publishing the journals *Cognitive Science and TopiCS*.

GOVERNANCE

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Content Production Manager: Marcelo Viridiano, FrameNet Brasil

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Senior Association Manager: Cendrine De Vis
Conference and Association Manager: Lauren Moline
Junior Conference and Association Manager: Iris Elias
Association Assistant: Vivek Punwani

COGNITIVE SCIENCE SOCIETY BUSINESS MEETING
The Cognitive Science Society Business Meeting is scheduled for Saturday, July 30 at 11:30 in Room 102, the John W.H. Bassett Theatre at the Metro Toronto Convention Center.

MEMBERSHIP INFORMATION
Your membership dues help support important activities by the Society, including our expanding accessibility, communications, diversity, and environmental responsibility initiatives. Most importantly, members help us achieve our mission to expand our understanding of the human mind, to promote Cognitive Science as a discipline, and to foster scientific interchange among researchers in various areas of study, including Anthropology, Artificial Intelligence, Education, Linguistics, Neuroscience, Philosophy and Psychology.
In addition to the connections you will make with fellow members, your CSS membership also includes access to the following:

- Ability to participate in society elections
- Opportunities for professional development and networking
- Web-based electronic access to Cognitive Science Journal and Topics in Cognitive Science (TopiCS)
- Reduced registration fees at the Annual Meeting of the Cognitive Science Society
- Reduced subscription rates to the journals Trends in Cognitive Sciences, Trends in Neurosciences, and Connection Science
- Reduced subscription rate to the Journal of Experimental and Theoretical Artificial Intelligence
- Discounted book prices from select publishers
- Online access to Policy Insights from the Behavioral and Brain Sciences

COGNITIVE SCIENCE SOCIETY GROVE

The Cognitive Science Society has established the CogSci Grove which aims to mobilise cognitive scientists to offset carbon emissions associated with their professional activities. To date, 1681 trees have been planted in protected sites in the Scottish Highlands where they will create homes for wildlife and forests for the future.

More information is available on the website.
CONFEREECE SERVICES

REGISTRATION

If you registered online, Pre-Registered Delegate Check-In is located at the Registration Desk at the bottom of the escalators on Level 100, North Building of the Metro Toronto Convention Center.

If you need to register now, you can complete Onsite Registration or go to the Registration Desk at the bottom of the escalators on Level 100, North Building of the Metro Toronto Convention Center.

Delegates who have registered and paid in advance will receive an email from Underline, the virtual platform provider with the direct link to enter the platform. Delegates can also access the Underline site via the CogSci 2022 website.

REGISTRATION HOURS

Wednesday, July 27  08:00 – 16:00
Thursday, July 28  07:30 – 16:00
Friday, July 29  08:00 – 16:00
Saturday, July 30  08:00 – 15:00

Anyone who has pre-selected to receive a Certificate of Attendance can pick this up at the Registration desk.

CODE OF CONDUCT

By entering the virtual platform and participating in CogSci 2022 you are agreeing to the CogSci 2022 Code of Conduct. To read the code of conduct, please click here.

TECHNICAL HELP DURING THE VIRTUAL CONFERENCE

If you encounter any technical issues during your virtual experience, please contact the software provider directly, by either visiting the ‘Help Desk’ while online, or emailing cogsci2022@underline.io.

LOST AND FOUND

Lost and Found is located at Registration. The Cognitive Science Society is not responsible for any missing or stolen personal items.

IN CASE OF EMERGENCY

In case of an emergency please do not call 911 first; instead call our Security at 416-585-8160 or 8160 from a House Phone. First Aid services if contracted thru the MTCC can also be reached at this number and the first aid station is located on 200 level behind room 204.
COAT CHECK
We will have a coat racks available at the Registration Desk for your use during conference hours. Please do not leave any valuables with the coat check.

METRO TORONTO CONFERENCE CENTER

PARENTING ROOM
The Parenting Room is located in room 201A. The room will be available during the hours noted below:

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<td>Thursday, July 28</td>
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<td>Friday, July 29</td>
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<tr>
<td>Saturday, July 30</td>
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COFFEE BREAKS & LUNCH

Morning and afternoon coffee breaks will be located in Constitution Hall with the Posters and exhibitors. Coffee and tea are complimentary.

Nearby the venue, there are various café’s & Restaurants for you to use during Lunch Breaks:

**Simcoe Place Food Court 200 Front St W**
Directly across the street from the MTCC north building:
- Bourbon St Grill
- Green Curry
- Fresh West
- Manchu Wok
- McDonald’s
- Mr. Souvlaki
- Pumpernickels
- Tim Horton’s
- Subway
- Tabouli
- Umi Sushi

**Metro Hall Food Court 200 Wellington St W**
One block north of Front St.
- Booster Juice
- Brioche Dorée
- California Thai
- Harvest Green
- Jimmy the Greek
- Koha Kitchen
- Kupfert and Kim
- Manchu Wok
- Soup Nutsy
- Starbucks
- Subway
- Sushi Shop
- Tim Horton’s

**Additional Options**
- Second Cup 255 Front St W Street Level of the MTCC
- Starbucks 300 Front St W Corner of Front & John St
- Boston Pizza 250 Front St W Corner of Front & John St
- Scaddabush Italian Kitchen/Bar 200 Front St W Corner of Front & Simcoe St
- Chipotle Mexican Grill 151 Front St W
- The Landing Group 123 Front St W Corner of Front & York St
- Jack Astor’s 144 Front St W Corner of Front & York St
- Loose Moose 146 Front St
COGNITIVE SCIENCE SOCIETY BUSINESS MEETING

The Cognitive Science Society Business Meeting is scheduled for Saturday, July 30 at 11:30 in Room 102, the John W.H. Bassett Theatre at the Metro Toronto Convention Center.

ONLINE AND ON-DEMAND PROGRAM ACCESS

The full conference program and virtual access to livestreamed content as well as on-demand recorded conference content is available from Underline, login with the email address used for your registration to the 2022 CogSci conference and will be available until July 2024.

CONFERENCE ACCESS

Internet Access

Free Wireless Internet (best for checking email)

Network: CogSci2022  Password: pw22cogsci

AFFINITY AND DISCUSSION GROUPS

CogSci 2022 is pleased to announce a series of Affinity and Discussion Group sessions, which are scheduled to take place during the conference. You can register online to participate in the following Affinity Groups:

Diverse careers in cognitive science
Virtual  Thursday, July 28, 10:00 – 11:15 EDT

Non-traditional career paths for cognitive scientists
Virtual  Monday, July 25, 9:00 – 10:00 EDT or 
Onsite Room 103  Thursday, July 28, 17:00 – 18:00 EDT

Laschool and worldwide diverse cognitive science
Onsite Room 101  Thursday, July 28th, 16:40 – 18:15 EDT

Neurodiversity discussion group
Virtual  Thursday, July 28, 16:40 – 18:15 EDT

Neural Nets for Cognition
Onsite Room 104A  Thursday, July 28th, 16:40 – 18:15 EDT

These sessions are free to attend for all CogSci 2022 delegates. Please view the website for further information including dates of the scheduled session.

Q&A Sessions

As a fully hybrid event, every session will be presented and livestreamed without any pre-recordings. Q&A will be live at the end of the session alternating questions from onsite and online attendees. Additionally there are text areas for questions in the Underline platform for any on-demand attendees.
PROCEEDINGS INFORMATION
The full proceedings are available as a PDF document and in HTML format at: cognitivesciencesociety.org/program/

e-scholarship
The proceedings for past years’ conferences are available at: cognitivesciencesociety.org/past-conferences/

PRESENTATION INSTRUCTIONS

Oral presentations:
Each standard oral presentation is allocated 20 minutes, which is to include a closing period for addressing questions from attendees. A recommended partitioning of this time is 15 minutes of presentation followed by 5 minutes of questions (and for transition). Each room is equipped with a video projector with HDMI input, as well as a microphone. The projectors support 16:9 aspect ratio (widescreen format). Laptops and tech support are supplied to each room including the link to virtual attendees.

Presentations that are part of workshops, tutorials, awards panels or symposia sessions may use different schedules. Please contact the organizer of the given workshop, tutorial, or symposium for information about the correct amount of presentation time.

Session Chairs:
Each room will have signs that the chair can use to signal to the speaker how much time is left. Assigned session chairs will quickly announce each speaker in the order listed and strictly monitor the time of each talk.

Virtual Flash Talk presentations:
Each virtual flash talk presentation is allocated 5 minutes within a 45min block of time. Any extra time at the end of the session time can be used for questions. Additional questions can be made directly to every poster presenter through Underline by text. These presentations are made entirely virtually but projected into a room at the Metro Toronto Convention Center for onsite attendees to watch. Tech support is supplied to each room to ensure a smooth link between onsite and virtual attendees.

Poster presentations:
In-person Posters will be presented on poster boards during the poster sessions in Constitution Hall on the 100 level of the North Building of the Metro Toronto Convention Center. Presenters may locate their poster boards by checking the middle number of their poster number.

Poster numbers are Px-xx-xxxx. The first number after P, identifies the poster session you’re assigned to. The 2nd two-digit number is the location of the poster in the hall. This number can be 1 through 34 and identifies exactly where you are in the hall. The final four-digit number is the unique poster/paper ID number.
Poster boards and pushpins will be provided. The poster board is 4 feet (height) x 8 feet (width) but you do not need to use the full space. The recommended size is 3.75 feet x 3.75 feet. Push pins will be provided for you to adhere the poster to the board. Presenters must remove their posters at the end of the poster session.

*Any posters not removed will be discarded by show management*

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**POSTER SESSION TIMES**

**THURSDAY, JULY 28TH**

**POSTER SESSION 1**  
*Education, language acquisition, and development*  
10:20 – 12:00 EDT

**POSTER SESSION 2**  
*Number, cause, emotion, space, and time*  
13:00 – 14:40 EDT

**POSTER SESSION 3**  
*Decision making, attention, planning, and search*  
15:00 – 16:40 EDT

**FRIDAY, JULY 29TH**

**POSTER SESSION 4**  
*Social cognition, morality, and groups*  
8:30 – 10:10 EDT
POSTER SESSION 5
Language processing, representation, and use
10:20 – 12:00 EDT

SATURDAY JULY 30TH

POSTER SESSION 6
Neuroscience, AI, and human-computer interaction
8:30 – 10:10 EDT

POSTER SESSION 7
Concepts, semantic representation, and memory
13:00 – 14:40 EDT

POSTER SESSION 8
Reasoning, learning, and representation
15:00 – 16:40 EDT

THANK YOU TO OUR SPONSORS AND EXHIBITORS

Exhibit booths are located on Level 1 in the Constitution Hall and are available during the hours noted below:

Thursday July 28, 2022  10:00 AM to 4:40 PM
Friday July 29, 2022  8:30 AM to 4:00 PM
Saturday July 30, 2022  8:30 AM to 4:40 PM

PLATINUM SPONSOR

DUOLINGO  Booth #5

Duolingo (www.duolingo.com) is the most popular language-learning platform and the most downloaded education app worldwide. The company’s mission is to develop the best education in the world and make it universally available. The app makes learning new languages fun and motivating with bite-sized lessons that feel like playing a game. The effectiveness of the app is monitored through analyzing in-app data, as well as research studies that use independent assessments (www.duolingo.com/efficacy). Duolingo offers over 100 total courses across 40 distinct languages, from Spanish, French, German and Japanese to Navajo and Yiddish.

@duolingo  (Twitter, Facebook, Instagram)
FINDINGFIVE CORPORATION  Booth #6

FindingFive is a non-profit tech startup with a mission of building the technological infrastructure for online behavioral research. We focus on eliminating the pain points faced by researchers such as programming an online study and securely collecting and storing participant data. Our web platform, www.findingfive.com, enables researcher to rapidly create browser-based online studies with academic terms that are already familiar to them. FindingFive now also has its own participant pool so that researchers can create studies and recruit participants all in the same place.

@findingfive (facebook), @UpdateFF (twitter), www.findingfive.com

EXHIBITOR

MIT PRESS  Booth #7

Established in 1962, the MIT Press is one of the largest and most distinguished university presses in the world and a leading publisher of books and journals at the intersection of science, technology, art, social science, and design.

www.mitpress.mit.edu

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Founded in 1890, the University of Chicago Press is one of the oldest continuously operating university presses in the United States. Through our books and more than 90 journals, we seek not only to advance scholarly conversation within and across traditional disciplines but, in keeping with the University of Chicago’s experimental tradition, to help define new areas of knowledge and intellectual endeavor.

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Oxford University Press is a publisher of some of the most respected and prestigious books and journals in the world.

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THE DAVID E. RUMELHART PRIZE

The David E. Rumelhart Prize is awarded annually to an individual or collaborative team making a significant contemporary contribution to the theoretical foundations of human cognition. Contributions may be formal in nature: mathematical modeling of human cognitive processes, formal analysis of language and other products of human cognitive activity, and computational analyses of human cognition using symbolic or non-symbolic frameworks all fall within the scope of the award.

The David E. Rumelhart Prize is funded by the Robert J. Glushko and Pamela Samuelson Foundation. Robert J. Glushko received a Ph.D. in Cognitive Psychology from the University of California, San Diego in 1979 under Rumelhart’s supervision. He is an Adjunct Full Professor in the Cognitive Science Program at the University of California, Berkeley.

THE 2022 RUMELHART PRIZE HAS BEEN AWARDED TO

Michael Tomasello, Department of Psychology and Neuroscience, Duke University & Max Planck Institute for Evolutionary Anthropology

Michael Tomasello is James F. Bonk Distinguished Professor at Duke University. Michael is a fellow of the German National Academy of Sciences, the Hungarian National Academy of Sciences, the American Academy of Arts and Sciences, the National Academy of Science, and of course our own Cognitive Science Society. His numerous previous awards include the Jean Nicod Prize, the Mind and Brain Prize, the British Academy Wiley Prize in Psychology, and the Heineken Prize for Cognitive Science, among many others.

The guiding question behind the Michael Tomasello’s research is one that many cognitive scientists have pondered at some time or other. That question, which Michael has pursued in a career spanning over 40 years and in two continents, is: What makes us human? What distinguishes us from our great ape cousins? For some, it is tool use, but many species use tools. For some, it is language, but many species have communicative systems. For some, it is the ability to craft our environment to our own ends. For Professor Tomasello, it is not a single cognitive domain, like language, or tool use. Humans are unique in multiple ways – in their communication, yes, but also in aspects of their social cognition, their cultural learnings, their cooperative thinking, and their abilities to collaborate, to express prosocial behaviours, to follow social norms, and to maintain a moral identity.
RUMELHART PRIZE PRESENTATION

‘Shared Agency and Human Cognition’

with Michael Tomasello

Friday, July 29, 16:10 – 17:40, Room 102, the John W.H. Bassett Theatre at the Metro Toronto Convention Centre.

The Rumelhart Prize Reception and Announcement of the 23rd Rumelhart Prize Recipient follow the Prize Presentation on Friday, July 29th at the SOHO Ballroom at the Delta Hotel at 18:00 – 19:00. The Rumelhart Reception is sponsored by the Robert J. Glushko and Pamela Samuelson Foundation.”

RUMELHART SYMPOSIUM

Saturday, July 30, 8:30 – 10:10, Room 102, the John W.H. Bassett Theatre at the Metro Toronto Convention Centre

In honor of Michael Tomasello, this year’s Rumelhart Award recipient, research related to his work will be presented in this special symposium.

Jan Engelmann, University of California Berkeley, Chair
Marjorie Rhodes, New York University
Tamar Kushnir, Duke University
Hyo Gweon, Stanford University

THE JEFFREY L. ELMAN PRIZE FOR SCIENTIFIC ACHIEVEMENT AND COMMUNITY BUILDING

In recognition of Jeffrey L. Elman’s many contributions to the field of cognitive science, the Cognitive Science Society in partnership with the University of California, San Diego awards a prize at the Cognitive Science Society annual meeting to mid-career cognitive scientists (individuals or teams) whose careers exemplify the twin strands of scientific excellence and commitment to community-building and service that were so evident in his career. Jeffrey Elman made major contributions to the theoretical foundations of human cognition, most notably in the areas of language and development. His work continues to have an immense impact across fields as diverse as cognitive science, psycholinguistics, developmental psychology, evolutionary theory, computer science and linguistics. In addition to his important intellectual contributions, he also was an inspiring scientific citizen who is remembered for his generosity and mentorship.
ELMAN SYMPOSIUM
Thursday, July 28, 2022, 13:00 – 14:40
Symposium chair: Baudouin Forgeot d'Arc, CHU Sainte-Justine, University of Montreal

Presenters:
Valerie De Simone, FFDys;
Dominique Yvon, CEA Saclay - IRFU/DPHP;
Marie Lallier, Basque Center on Cognition, Brain and Language

THE 2022 ELMAN PRIZE HAS BEEN AWARDED TO

Franck Ramus, Paris Sciences et Lettres University

Franck Ramus received his PhD in Cognitive Science from EHESS (École des hautes études en sciences sociales), Paris in 1999, under the supervision of Jacques Mehler. He continued as a Marie Curie Fellow at the Institute of Cognitive Neuroscience, University College London, and then returned to Paris. Since 2002, he is a tenured CNRS researcher at the Department of Cognitive Studies, Ecole Normale Supérieure – PSL University, Paris.

ROBERT J. GLUSHKO DISSERTATION PRIZES

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

**Saturday, July 30th 15:00 – 16:40, Room 102, the John W.H. Bassett Theatre at the Metro Toronto Convention Center.**

*Symposium chair: David Danks, University of California, San Diego*

The Glushko Dissertation Prize Symposium showcases these 2022 award winners:

### 2022 WINNERS

**Kelsey Allen**, 2021 PhD thesis, from Massachusetts Institute of Technology

*Learning to act with objects, relations and physics*

**Carolyn Baer**, 2020 PhD thesis, from University of British Columbia

*Developing a sense of certainty*

**Judy Sein Kim**, 2020 PhD thesis, from Johns Hopkins University

*‘Visual’ knowledge in the absence of visual experience*


*On the rational bounds of cognitive control*

### MARR PRIZE

Sponsored by **The Cognitive Science Society**

The Marr Prize, named in honor of the late David Marr, will be given to the best student paper at the conference. All student first authors are eligible for the Marr Prize for the best student paper. Authors who graduated within the last 6 months and are no longer students are also eligible if the work being reported was conducted entirely while the first author was a student.

#### 2022 WINNER

**Kerem Oktar**, Princeton University

*Mechanisms of Belief Persistence in the Face of Societal Disagreement*

### COMPUTATION MODELING PRIZES

Sponsored by **The Cognitive Science Society**

Four prizes will be awarded for the best full paper submissions that involve computational cognitive modeling. The four separate prizes will represent the best modeling work in the respective areas of: perception/action, language, higher-level cognition, and applied cognition. The prizes are open to researchers at any level (student, post-doctoral fellow, research scientist, faculty) from any nationality. Any form of computational cognitive modeling relevant to cognitive science will be eligible, including (but not limited to) neural networks, symbolic models, Bayesian models, dynamic systems, or various hybrids.
2022 WINNERS

APPLIED COGNITION

Eric Martinez, MIT
*So much for plain language: An analysis of the accessibility of United States federal laws (1951-2009)*

HIGHER-LEVEL COGNITION

Federico Adolfi, Ernst-Strüngmann Institute for Neuroscience in Cooperation with Max-Planck Society
*Computational Complexity of Segmentation*

LANGUAGE

Daniel Sabinasz, Institut für Neuroinformatik
*A Neural Dynamic Model Perceptually Grounds Nested Noun Phrases*

PERCEPTION & ACTION

Anjie Cao, Stanford University
*Habituation reflects optimal exploration over noisy perceptual samples*

SAYAN GUL AWARD

In honor of Sayan Gul

Sayan Gul was an undergraduate at UC Berkeley studying cognitive science and computer science, and had great potential as a cognitive scientist. He died tragically while traveling to the Annual Conference of the Cognitive Science Society for the presentation of his research. This award is intended to support similarly outstanding undergraduates conducting research in cognitive science.

2022 WINNER

Neil Rathi, Palo Alto High School
*Explaining patterns of fusion in morphological paradigms using the memory–surprisal tradeoff*
DIVERSITY & INCLUSION CONFERENCE AWARDS
Sponsored by The Cognitive Science Society

Up to ten prizes will be awarded to promote participation in the conference for graduate students who bring diversity to the society, in particular under-represented racial/ethnic groups and citizens of under-represented and economically disadvantaged countries who are presenting at the conference. Please note that under-represented countries are identified using the World Bank list of developing nations (Low Income, Low-Middle Income, or Upper-Middle Income). Countries considered High Income Economies are not eligible.

2022 WINNERS

Mark Abdelshiheed, North Carolina State University, USA
The Power of Nudging: Exploring Three Interventions for Metacognitive Skills Instruction Across Intelligent Tutoring Systems

Can Avci, Koç University, Turkey
Gesture and Speech Disfluency in Narrative Context: Disfluency Rates in Spontaneous, Restricted, and Encouraged Gesture Conditions

Verónica D’Angelo, Universidad Nacional de Córdoba, Argentina
Defending Diversity: Providing Examples from Different Domains Enhances Application of System Principles Beyond the Domains Covered by the Examples

Joseph Outa, Stanford University, USA
Stop, children what’s that sound? Multi-modal inference through mental simulation

Maureen Gill, Yale University, USA
What is a consumer product for? How teleology guides judgments of product liability

Lauren Girouard-Hallam, University of Louisville, USA
Children’s Judgments About Asking for Past, Present, and Future Information from Google and a Person

Yeqiu Zheng, Erasmus University Rotterdam & Tilburg University, the Netherlands
The value of host-country language: The effect of Dutch language proficiency on immigrants’ income, savings and financial wealth in the Netherlands
Aditi Jublie, Indian Institute of Technology Kanpur, India
Attentional Bias for Self-Face: Investigation using Drift Diffusion Modelling

Hasan Qarehdaghi, Shahid Beheshti University, Iran
An EZ-circular diffusion model of continuous decision processes

Shadab Tabatabaeian, University of California Merced, USA
Mathematical insights as novel connections: Evidence from expert mathematicians

DIVERSITY & SOCIAL INEQUALITY AWARDS

Sponsored by The Cognitive Science Society

This prize recognizes the best work at our annual conference that tackles issues of diversity and social inequality. Eligible work can include studies of racism, sexism, and other forms of inequality, or more generally tackle the issue of psychological and behavioral diversity in cognitive science. The prize is open to researchers at any level (student, post-doctoral fellow, research scientist, faculty) from any nationality.

2022 WINNER
George Kachergis, Stanford University

Estimating demographic bias on tests of children’s early vocabulary

DISCIPLINARY DIVERSITY & INTEGRATION AWARD IN COGNITIVE SCIENCE

Sponsored by The Cognitive Science Society

This conference prize recognizes the best cognitive science research in disciplines that have been traditionally under-represented at our annual conferences and journals. Eligible submissions include novel interdisciplinary perspectives and integrative approaches to understanding the human mind. The prize is open to researchers at any level (student to faculty) and will be awarded to full papers and/or organized symposia that indicate their eligibility on submission and upon review of the committee.
2022 PAPER WINNER

Sehrang Joo, Yale University
No privileged link between intentionality and causation: Generalizable effects of agency in language

Steven Elmlinger, Cornell University
Immature vocalizations simplify the speech of Tseltal Mayan and US caregivers

Federico Adolfi, Ernst-Strüngmann Institute for Neuroscience in Cooperation with Max-Planck Society
Computational Complexity of Segmentation

2022 SYMPOSIA WINNER

Dr. Sydney Levine, Massachusetts Institute of Technology
Competing perspectives on building ethical AI: psychological, philosophical, and computational approaches

STUDENT TRAVEL GRANTS

Sponsored by the Robert J. Glushko and Pamela Samuelson Foundation

Student travel grants will be awarded to undergraduate and graduate students for travel support to attend the Conference. Any student who is first author on a full-length paper to be presented at the conference is eligible. Awardees will be selected on the basis of need and submission quality, with an effort to achieve a broad representation among academic institutions. After paper acceptance decisions have been made, selected first authors will be contacted by the Conference Awards Chairs.

2022 WINNERS

Kerem Oktar, Princeton University
Mechanisms of Belief Persistence in the Face of Societal Disagreement

Federico Adolfi, Ernst-Strüngmann Institute for Neuroscience in Cooperation with Max-Planck Society
Computational Complexity of Segmentation

Anjie Cao, Stanford University
Habituation reflects optimal exploration over noisy perceptual samples

Kevin O’Neill, Duke University
Measuring and Modeling Confidence in Human Causal Judgment
Katherine Collins, Massachusetts Institute of Technology

Structured, flexible, and robust: benchmarking and improving large language models towards more human-like behavior in out-of-distribution reasoning tasks

Isabelle Boni, University of Rochester

Commutativity: Autonomously Inferred or Necessarily Culturally Supported?

Maureen Gill, Yale University

What is a consumer product for? How teleology guides judgments of product liability

Arthur Le Pargneux, University of Warwick

Contractualist Concerns Shape Moral Decisions and Moral Judgments

Megan Waller, Carnegie Mellon University

Of mouses and mans: the role of production and feedback in language learning

Daniel Sabinasz, Institut für Neuroinformatik

A Neural Dynamic Model Perceptually Grounds Nested Noun Phrases

Tim Sainburg, 2021 PhD thesis, from University of California, San Diego

Temporal organization in vocal communication: sequential structure, perceptual integration, and neural foundations
PROGRAM OVERVIEW SCHEDULE

All times below are Eastern Time (Toronto time), if you are attending virtually, please adapt to your own time zone. Please note: the virtual platform will adjust the conference schedule in your specific time zone.

JULY 27TH, 2022

WORKSHOPS & TUTORIALS

TUTORIAL 1

Deep Learning for Brain Encoding and Decoding

Organizers and Presenters: Subba Reddy Oota, IIIT Hyderabad; Jashn Arora, IIIT Hyderabad; Manish Gupta, IIIT Hyderabad; Raju Bapi, IIIT Hyderabad; Mariya Toneva, Carnegie Mellon University

How does the brain represent different modes of information? Can we design a system that can automatically understand what the user is thinking? We can make progress towards answering such questions by studying brain recordings from devices such as functional magnetic resonance imaging (fMRI). The brain encoding problem aims to automatically generate fMRI brain representations given a stimulus. The brain decoding problem is the inverse problem of reconstructing the stimuli given the fMRI brain representation. Both the brain encoding and decoding problems have been studied in detail in the past two decades and the foremost attraction of studying these solutions is that they serve as additional tools for basic research in cognitive science and cognitive neuroscience. Recently, inspired by the effectiveness of deep learning models for natural language processing and computer vision, such models have been applied for neuroscience as well. In this tutorial, we plan to discuss different kinds of stimulus representations, and popular encoding and decoding architectures in detail. The tutorial will provide a working knowledge of the state of the art methods for encoding and decoding, a thorough understanding of the literature, and a better understanding of the benefits and limitations of encoding/decoding with deep learning.

TUTORIAL 2

Building Trust and Conducting Research With Minoritized Communities: A Spark-Sponsored Tutorial

Organizers and Presenters: Nichol Castro, University of Buffalo; Laurene Tumiel-Berhalter, University of Buffalo; Teresa Girolamo, University of Connecticut; Eliana Colunga, University of Colorado, Boulder

The lack of diverse participants in our research can lead to issues of generalizability, inability to address social and health disparities, and perpetuation of stereotypes, among many other issues. For example, it became quite clear during COVID-19 in the United States, the inequities that existed in health care access and quality and disparities in health outcomes for minoritized communities. Such inequities and disparities are also found in research practice in many fields, including cognitive science. For example, research with Western, educated, industrialized, rich, and democratic (WEIRD) populations has been highlighted as problematic (Ceci, Kahan, & Braman, 2010; Henrich, Heine, & Norenzayan, 2010), yet the inclusion of diverse participants in research remains lacking.
WORKSHOP 3
08:30 – 16:30
From Images to Symbols: Drawing as a Window Into the Mind
Room 104B, North Building

Organizers and Presenters: Kushin Mukherjee, University of Wisconsin-Madison; Holly Huey, University of California, San Diego; Timothy Rogers, University of Wisconsin-Madison; Judith Fan, University of California, San Diego

Drawing is a powerful cognitive technology for creating external representations of thought. While drawings have long provided inspiration to researchers in many areas of cognitive science, including psychology, artificial intelligence, and neuroscience, these communities have not generally had opportunities to interact and share insights. The goal of this workshop is to bring together perspectives from multiple disciplines to explore the question of how humans use drawings to communicate knowledge, catalyzing new opportunities for multidisciplinary collaboration. We are introducing a novel “flipped” format wherein we will hold three virtual seminars in the weeks leading up to CogSci 2022, each highlighting insights from Machine Learning, Neuroscience, and Developmental Science, respectively. Holding these thematic seminars in advance will enable us to attract a broader audience for our event and focus on promoting informal interaction among workshop attendees at the on-site event.

TUTORIAL 4
08:30 – 16:30
Category Theory for Cognitive Science
Room 104C, North Building

Organizers and Presenters: Britt Anderson, University of Waterloo; Steven Phillips, National Institute of Advanced Industrial Science and Technology; Toby St Clere Smithe, University of Oxford; Geoffrey Cruttwell, Mount Allison University

Applied Category Theory (aCT) is both a language for describing and a method for analyzing the abstract structures that populate cognitive science. It can serve as the lingua franca for cross domain discussions, and as a mathematical tool for probing the consequences of a model or theory's structure. As many cognitive scientists are unfamiliar with aCT this workshop will provide an introduction to its terminology and key features. The morning session will emphasize key concepts and tutorial exercises. The afternoon session will use recent research applications as case studies of its potential and as the basis for demonstrations of how it can be used productively.

WORKSHOP 5
12:30 – 16:30
Fostering Shared Intentionality for Diverse Learners Through Cross-Sensory Interaction Design
Room 104D, North Building

Organizers and Presenters: David Barter, OCAD University; Tamara Crasto, OCAD University; Erin Lee, OCAD University; Robert A Ingino, SenseTech Solutions; Peter Coppin, OCAD University

As the theme of this year’s conference suggests, cognitive diversity among learners and educators is increasingly acknowledged. However, in our societies that increasingly require advanced education, training, and technical skills, the pressure to standardize learning objectives, delivery techniques and delivery tools, especially online, is high. In these situations, learners and educators of diverse cognitive phenotypes and abilities experience learning environments that are a poor match for their abilities, making effective delivery of educational content challenging.
Globalized humanity is changing and needs to change. Consider climate change and extreme weather events, geopolitical tensions and conflict, and rising inequalities within and between nations. To these contemporary adaptational challenges, human cognition and action are changing – both individually as a person and collectively as a species. These changes occur at times blindly, but all the while accompanied by human strivings to gain foresights and perspectives beyond the current horizon.

Given the importance of culture as a mechanism for human adaptation, anthropology’s answer has been cultural evolution – an attempt to understand and explain cumulative cultural changes over the millennia. Whereas this has provided us with the knowledge and insights into long-term macro-level cultural dynamics, micro-level psychological knowledge complements our understanding of how and why macro-level cultural changes occur. Moreover, psychological insights are imperative in contemplating how to cultivate and craft human cultures – behaviour change, if you will – to navigate the uncharted waters into our collective futures. The psychology of cultural dynamics has accumulated knowledge and insights into micro-level cognitive and communicative processes that constitute and are constituted by macro-level cultural processes. In this presentation, I will examine the micro-macro dynamics of cultural maintenance and change mediated by dynamically changing social networks at the meso-level and outline future directions for the psychology of cultural dynamics.
Understanding dynamic facial expression communication across cultures using data-driven methods
Rachael Jack, University of Glasgow

The development of cooperation in a cross-cultural context
Katherine McAuliffe, Boston College

ORAL TALK SESSIONS

10:20 – 12:00 T1 – VISION
Room 103
10:20 – 12:00 T2 – DECISION MAKING
Room 104A
10:20 – 12:00 T3 – SOCIAL COGNITION
Room 104B
10:20 – 12:00 T4 – LANGUAGE PRODUCTION
Room 104C
10:20 – 12:00 T5 – LANGUAGE EVOLUTION
Room 104D

VIRTUAL FLASH TALK SESSIONS

10:20 – 11:05 FT1 - NUMERICAL COGNITION 1
Room 202D
10:20 – 11:05 FT2 - CONCEPTIONAL KNOWLEDGE
Room 202B
10:20 – 11:05 FT3 - EVENT COGNITION 1
Room 201D
10:20 – 11:05 FT4 - LANGUAGE REASONING 1
Room 201F
11:10 – 11:55 FT5 - HUMAN-COMPUTER INTERACTION 1
Room 202D
11:10 – 11:55 ET, FT6 - CONCEPTS AND CATEGORIES 1
Room 202B
11:10 – 11:55 ET, FT7 - CAUSATION
Room 201D
11:10 – 11:55 ET, FT8 - THEORY OF MIND 1
Room 201F

POSTER SESSION 1

10:20 – 12:00 Education, language acquisition, and development
Room 105-107, Constitution Hall
12:00 – 13:00 LUNCH, ON YOUR OWN

12:00 – 13:00 LUNCH, ON YOUR OWN
ELMAN SYMPOSIUM

2022 WINNER: Franck Ramus, Paris Sciences et Lettres University

Symposium Chair: Baudouin Forgeot d'Arc, CHU Sainte-Justine, University of Montreal

Presenters:
Valérie De Simone, FFDys;
Dominique Yvon, CEA Saclay - IRFU/DHPH;
Marie Lallier, Basque Center on Cognition, Brain and Language

ORAL TALK SESSIONS

13:00 – 14:40
Room 102, the John W.H. Basset Theatre at the Metro Toronto Convention Centre

T6 – CREATIVITY AND INSIGHT

T7 – ANALOGY AND REASONING

T8 – PRAGMATICS 1

T9 – LANGUAGE PROCESSING

T10 – DEVELOPMENT 1

VIRTUAL FLASH TALK SESSIONS

13:00 – 13:45
Room 202B

FT9 – MORALITY

FT10 - METACOGNITION AND EXECUTIVE CONTROL

FT11 - EDUCATION 1

FT12 - COMMUNICATION 1

FT13 - SPATIAL COGNITION

FT14 - CONCEPTS AND CATEGORIES 2

FT15 - DECISION MAKING 1

FT16 - SOCIOLINGUISTICS 1
POSTER SESSION 2

13:00 – 14:40

Number, cause, emotion, space, and time
Room 105-107, Constitution Hall

14:40 – 15:00

COFFEE BREAK
Room 105-107
Constitution Hall

SYMPOSIUM 1 [details]

Distorted constellations: interdisciplinary perspectives on understanding reality and the self

15:00 – 16:40

Room 102
John W. H. Bassett Theatre

Nwando Ebizie, Atelier Nwando Ltd
Simon J Cropper, Melbourne School of Psychological Sciences
Sophie Scott, University College London
Erinma Ochu, Manchester Metropolitan University

SYMPOSIUM 2 [details]

Diversity in Children’s Temperament: Perspectives on Shyness in Interaction

15:00 – 16:40

Room 103
North Building

Franziska Viertel, Paderborn University
Sarah Kucker, Oklahoma State University
Kristie Poole, University of Waterloo
Matt Hilton, University of Potsdam
Nils F. Tolksdorf, Paderborn University

ORAL TALK SESSIONS

15:00 – 16:40

T11 – CONCEPTS
Room 104A

T12 – MEMORY AND LEARNING
Room 104B

T13 – APPLIED LANGUAGE
Room 104C

T14 – LANGUAGE ACQUISITION 1
Room 104D

VIRTUAL FLASH TALK SESSIONS

15:00 - 15:45

FT17 – MULTILINGUALISM 1
Room 201F

FT18 – EVENT COGNITION 2
Room 202D

FT19 – SEMANTICS 1
Room 201D

FT20 – COOPERATION
Room 202B
PROGRAM SCHEDULE

15:50 - 16:35  FT21 - NUMERICAL COGNITION 2
Room 201F

15:50 - 16:35  FT22 - EMOTION 1
Room 202D

15:50 - 16:35  FT23 - LARGE LANGUAGE MODELS
Room 201D

15:50 - 16:35  FT24 – CREATIVITY
Room 202B

POSTER SESSION 3
15:00 – 16:40  Decision making, attention, planning, and search
Room 105-107
Constitution Hall

16:40 – 18:15  AFFINITY GROUPS

Onsite  Laschool and worldwide diverse cognitive science
Room 101
Thursday, July 28th, 16:40 – 18:15

Onsite  Neural Nets for Cognition
Room 104A
Thursday, July 28, 16:40 – 18:15

Virtual or Onsite  Non-traditional career paths for cognitive scientists
Room 103
Virtual, Monday, July 25, 09:00 – 10:00  OR  Onsite, Thursday, July 28, 17:00 – 18:00

Virtual  Neurodiversity discussion group
Thursday, July 28, 16:40 – 18:15

8:30 – 10:10  JULY 29TH, 2022
Room 102
John W.H. Bassett Theatre
INVITED SYMPOSIUM - GLOBAL CHALLENGES FOR COGNITIVE SCIENCE

The value of community for a diverse workforce
Gabriela de Queiroz, IBM

The science of surviving (and thriving) in the apocalypse
Athena Aktipis, Arizona State University

Technology, Democracy, and Cognition: Pressure Points and Global Challenges
Stephan Lewandowsky, University of Bristol

Understanding and Reducing Online Misinformation Across 16 Countries on Six Continents
David Rand, Massachusetts Institute of Technology
PROGRAM SCHEDULE

ORAL TALK SESSIONS
8:30 – 10:10
T15 – CAUSATION 1
Room 103
8:30 – 10:10
T16 – REASONING
Room 104A
8:30 – 10:10
T17 – EDUCATION
Room 104B
8:30 – 10:10
T18 – LANGUAGE MODELING
Room 104C
8:30 – 10:10
T19 – LANGUAGE ACQUISITION 2
Room 104D

VIRTUAL FLASH TALK SESSIONS
8:30 – 9:15
FT25 – THEORY OF MIND 2
Room 202D
8:30 – 9:15
FT26 – LEARNING 1
Room 202B
8:30 – 9:15
FT27 – EVENT COGNITION 3
Room 201D
8:30 – 9:15
FT28 – MULTILINGUALISM 2
Room 201F
9:20 – 10:05
FT29 – SOCIAL COGNITION 1
Room 202D
9:20 – 10:05
FT30 – ARTIFICIAL INTELLIGENCE 1
Room 202B
9:20 – 10:05
FT31 – EMBODIED COGNITION
Room 201D
9:20 – 10:05
FT32 – READING 1
Room 201F

POSTER SESSION 4
8:30 – 10:10
Social cognition, morality, and groups
Room 105-107
Constitution Hall

COFFEE BREAK
10:10 – 10:20
Room 105-107
Constitution Hall

SYMPOSIUM 3 [ details ]
Dimensions of Diversity in Spatial Cognition: Culture, Context, Age, and Ability
Tyler Marghetis, University of California, Merced
Benjamin Pitt, University of California, Berkeley
Holly Huey, University of California, San Diego
Roberto Bottini, Center for Mind/Brain Sciences (CIMeC), University of Trento
PROGRAM SCHEDULE

SYMPOSIUM 4
10:20 – 12:00
Room 103
North Building
Race, Culture, and Language: A SPARK-Sponsored Symposium
Jeni Kubota, University of Delaware
Ronda Lo, York University
Arturo Hernandez, University of Houston
Onur Özsoy, Leibniz-Centre General Linguistics
Natasha Tokowicz, University of Pittsburgh
Nichol Castro, University of Buffalo

ORAL TALK SESSIONS
10:20 – 12:00
Room 104A
T20 – EMOTION
0:20 – 12:00
Room 104B
T21 – HUMAN-COMPUTER INTERACTION
10:20 – 12:00
Room 104C
T22 – COMPUTATIONAL NEUROSCIENCE 1
10:20 – 12:00
Room 104D
T23 – CULTURE AND COGNITION

VIRTUAL FLASH TALK SESSIONS
10:20 – 11:05
Room 201D
FT33 – PERCEPTION 1
10:20 – 11:05
Room 202D
FT34 – ATTENTION
10:20 – 11:05
Room 202B
FT35 – MEMORY 1
10:20 – 11:05
Room 201F
FT36 – LANGUAGE ACQUISITION 1
11:10 – 11:55
Room 201D
FT37 – COGNITION OF TIME 1
11:10 – 11:55
Room 202D
FT38 – SOCIAL COGNITION 2
11:10 – 11:55
Room 202B
FT39 – PHONOLOGY
11:10 – 11:55 ET,
Room 201F
FT40 – LANGUAGE ACQUISITION 2

POSTER SESSION 5
10:20 – 12:00
Room 105-107
Constitution Hall
Language processing, representation, and use
12:00 – 13:00
LUNCH, ON YOUR OWN

#CogSci2022
bit.ly/3N55tRP
12:00 – 13:00
Room 101
DUOLINGO SPONSOR SESSION

Learning Science Jobs at Duolingo
Bozena Pajak, VP of Learning and Curriculum
First 100ppl receive boxed lunch

13:00 – 14:00
Room 102
John W. H. Bassett Theatre
Resisting demhumanization in the age of AI
Emily M. Bender, University of Washington, Department of Linguistics

The production and promotion of so-called “AI” technology involves dehumanization on many fronts: The computational metaphor valorizes one kind of cognitive activity as “intelligence”, devaluing many other aspects of human experience (Baria and Cross, 2021), while also focusing on agents as isolated individuals rather than seeing the importance of being located within webs of relationships (Birhane, 2021). AI research paradigms frequently frame the purpose of humans to be labelers of data or interchangeable machine components (Gray and Suri, 2019). Meanwhile, data collected from people is understood as “ground truth” even while it lies about those people, especially marginalized people (Noble, 2018; Raji, 2021). In this talk, I will explore these processes of dehumanization and the role that cognitive science can play in resisting these trends by bringing a deeper and richer picture of human cognition to the discourse.

14:00 – 14:20
Room 105-107
Constitution Hall
COFFEE BREAK

14:20 – 16:00
Room 102
John W. H. Bassett Theatre
SYMPOSIUM 5 [ details ]
Competing perspectives on building ethical AI: psychological, philosophical, and computational approaches
Sydney Levine, Harvard Psychology Department & MIT Department of Brain and Cognitive Sciences
Joshua August Skorburg, University of Guelph
Dan Hendrycks, UC Berkeley
Zhijing Jin, Max Planck Institute & ETH Zurich
Katherine Heller, Google Brain

14:20 – 16:00
Room 103
North Building
SYMPOSIUM 6 [ details ]
Innateness, Universals, Diversity
Iris Berent, Northeastern University
Richard Samuels, The Ohio State University
Jennifer Culbertson, University of Edinburgh
Asifa Majid, Oxford University
ORAL TALK SESSIONS

14:20 – 16:00 T24 – SPATIAL COGNITION
Room 104A

14:20 – 16:00 T25 – LANGUAGE AND CONCEPT ACQUISITION
Room 104B

14:20 – 16:00 T26 – REAL-WORLD DECISIONS
Room 104C

14:20 – 16:00 T27 – COMMUNICATION
Room 104D

14:20 – 16:00 T28 – EXPLORATION
Room 101

VIRTUAL FLASH TALK SESSIONS

14:20 – 15:05 FT41 – SEMANTICS 2
Room 202B

14:20 – 15:05 FT42 – READING 2
Room 201F

14:20 – 15:05 FT43 – LANGUAGE PROCESSING 2
Room 201D

14:20 – 15:05 FT44 – CONCEPTS AND CATEGORIES 3
Room 202D

15:10 – 15:55 FT45 – EXPLANATION 1
Room 202B

15:10 – 15:55 FT46 – LEARNING 2
Room 201F

15:10 – 15:55 FT47 – NEUROSCIENCE
Room 201D

15:10 – 15:55 FT48 – MEMORY 2
Room 202D

16:00 – 16:10 BREAK

16:10 – 17:40 RUMELHART PRIZE PRESENTATION
Shared Agency and Human Cognition

16:10 – 17:40 Room 102
John W. H. Bassett Theatre

Michael Tomasello, Department of Psychology and Neuroscience, Duke University & Max Planck Institute for Evolutionary Anthropology

RUMELHART RECEPTION

Celebrate the 23rd Rumelhart Winner Announcement with a champagne toast!

18:00 – 19:00
SOHO Ballroom, Delta Hotel, 75 Lower Simcoe Street Toronto, Ontario
RUMELHART SYMPOSIUM

**Chair:** Jan Engelmann, University of California Berkeley

Speakers:
- Jan Engelmann, University of California Berkeley
- Marjorie Rhodes, New York University
- Tamar Kushnir, Duke University
- Hyo Gweon, Stanford University

SYMPOSIUM 7 [details]

**Universality and Diversity in Event Cognition and Language**

Lilia Rissman, University of Wisconsin – Madison
Ercenur Ünal, Özyeğin University
Arrate Isasi-Isasmendi, University of Zurich
Yue Ji, Beijing Institute of Technology

ORAL TALK SESSIONS

T29 – GROUPS AND COOPERATION

T30 – DEVELOPMENT 2

T31 – SEMANTICS

T32 – SYNTAX AND MORPHOLOGY

VIRTUAL FLASH TALK SESSIONS

FT49 – LANGUAGE ACQUISITION 3

FT50 – COMMUNICATION 2

FT51 – EMOTION 2

FT52 – CAUSATION AND EXPLANATION 2

FT53 – SOCIOLINGUISTICS 2

FT54 – DECISION MAKING 2

FT55 – PERCEPTION 2

FT56 – EDUCATION 2
Who's minds matter? Theoretical and practical implications of representation in the Cognitive Sciences

Neil Lewis Jr, Cornell University

Since the cognitive revolution, psychology and other cognitive sciences have shifted our research focus toward conducting primarily “basic” studies in laboratory and other nonnaturalistic settings with convenience samples that enable us to isolate mechanisms of interest. While this shift in research approach has expedited the rate of discovery in one sense, the shift away from studying naturally occurring behaviors in a variety of settings with diverse groups of people has created a tension—it has limited both what we have been able to learn and our ability to apply our findings to contemporary problems in the world. In this talk I will use examples from research on criminal justice, education, health, and environmental disparities to discuss the implications of our sampling strategies for the advancement of theories in the cognitive sciences. I will then conclude by discussing the implications of our methodological practices for the application of our theories in the modern world.
## PROGRAM SCHEDULE

### ORAL TALK SESSIONS

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<td>T33 – COMPUTATIONAL NEUROSCIENCE 2</td>
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<td>13:00 – 14:40</td>
<td>T34 – MORALITY</td>
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<td>13:00 – 14:40</td>
<td>T35 – EMBODIED COGNITION</td>
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<td>13:00 – 14:40</td>
<td>T36 – PRAGMATICS 2</td>
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<td>13:00 – 14:40</td>
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### VIRTUAL FLASH TALK SESSIONS

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<td>13:00 – 13:45</td>
<td>FT60 – COMMUNICATION 3</td>
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<td>13:50 – 14:35</td>
<td>FT61 – DECISION MAKING 3</td>
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<td>FT62 – ANALOGY</td>
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<td>FT63 – SYNTAX AND MORPHOLOGY</td>
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### POSTER SESSION 7

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<td>13:00 – 14:40</td>
<td>Concepts, semantic representation, and memory</td>
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### COFFEE BREAK

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<td>14:40 – 15:00</td>
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<td>Room 105-107 Constitution Hall</td>
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### GLUSHKO TALKS [details]

- **Kelsey Allen**, MIT
- **Carolyn Baer**, UBC
- **Judy Sein Kim**, Johns Hopkins University
- **Sebastian Musslick**, Princeton University
- **Timothy Sainburg**, University of California San Diego
SYMPOSIUM 8 [details]

15:00 – 16:40
Room 103
North Building

Bilingual Sentence Processing: when Models Meet Experiments

Xavier Hinaut, Bordeaux University
Stefan L. Frank, Radboud University
Edith Kaan, University of Florida
Yung Han Khoe, Radboud University
Lin Chen, University of Pittsburgh
Irene Winther, University of Edinburgh
Yevgen Matusevych, University of Edinburgh

ORAL TALK SESSIONS

15:00 – 16:40
Room 104A

T38 – NETWORKS AND GROUPS

15:00 – 16:40
Room 104B

T39 – LANGUAGE ACQUISITION 3

15:00 – 16:40
Room 104C

T40 – MEMORY

15:00 – 16:40
Room 104D

T41 – CAUSATION 2

VIRTUAL FLASH TALK SESSIONS

15:00 – 15:45
Room 202D

FT65 – PRAGMATICS

15:00 – 15:45
Room 201F

FT66 – MUSIC AND ART

15:00 – 15:45
Room 201D

FT67 – LEARNING 3

15:50 – 16:35
Room 202B

FT68 – EMOTION 3

15:50 – 16:35
Room 202D

FT69 – CULTURE AND COGNITION

15:50 – 16:35
Room 201F

FT70 – COGNITION OF TIME 2

15:50 – 16:35
Room 201D

FT71 – HUMAN-COMPUTER INTERACTION 2

15:50 – 16:35
Room 202B

FT72 – SOCIAL COGNITION 3

POSTER SESSION 8

15:00 – 16:40
Room 105-107
Constitution Hall

Reasoning, learning, and representation

16:40 – 17:00
BREAK
CLOSING SESSION & THANK YOU

17:00 – 17:20
Room 102
John W. H. Bassett Theatre

The British Journal for the Philosophy of Science

Published on behalf of the British Society for the Philosophy of Science
Editors in Chief: Wendy Parker and Robert Rupert

Since 1950, The British Journal for the Philosophy of Science (BJPS) has presented the best new work in the discipline. An international leader in the philosophy of science, BJPS showcases outstanding research on a variety of topics, from the nature of models and simulations to mathematical explanation and foundational issues in the physical, life, and social sciences.

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journals.uchicago.edu/bjps

THE UNIVERSITY OF CHICAGO PRESS JOURNALS
THURSDAY, JULY 28TH
10:20 – 12:00 ET IN ROOM 102, JOHN W.H. BASSETT THEATRE

**Children’s everyday language experiences across urban and rural contexts**

Marisa Casillas, University of Chicago

In the first few years of life, much of what children learn about language they learn at home. Steeped in quotidian talk, children at home are folded into the program of everyday routines and are close witnesses to the interactions and activities taking place around them. Who addresses them, when, and why shapes children’s linguistic debut onto this daily landscape of activity. By investigating how children’s language environments are structured by their daily lives, we can better understand both the material and the aims by which children build their language knowledge. In this talk I will review recent work analyzing young children’s linguistic and object-centric activities over the course of whole waking days at home in a set of urban and rural communities. While the findings I present will only give a initial glimpse into children’s home language use, they suggest where we can expect to find robust cross-cultural similarities—as well as robust differences—in children’s early language experiences. I discuss how we might usefully engage with both similarities and differences in refining our theories of language learning, which are otherwise primarily focused on research from a handful of populations and language features.

**Human Diversity = Human Elasticity: Natural Languages of Speech and Sign**

Wendy Sandler, University of Haifa

Traditional historical and comparative linguistics emphasized differences across spoken languages and language families. Chomskyan generative linguistics caused a paradigm shift by emphasizing universal properties, thought to be innate. In the absence of auditory input, humans inevitably create an alternative sign language system, a system exhibiting impressive formal universals that are similar to those of spoken languages. But is that the whole story? I will demonstrate certain fundamental, predictable, and nontrivial differences between natural spoken and signed languages, differences that are just as sweeping as the similarities. This diversity in humans provides hard evidence for cognitive elasticity in a complex system, setting us apart from other species. However, I will show that the body is responsible for certain fundamental and predictable differences between natural
spoken and signed languages. In addition, careful attention to bodily articulations in young sign languages gives cues to the emergence of linguistic complexity in diverse socio-cultural environments. Two consequences follow from these discoveries. First, the role of the body in structuring aspects of the cognitive system of language provides a primary investigative tool. Second, we humans are endowed with the capacity to create two distinguishable types of natural language. Identifying both the similarities and the differences between them will shed light on this quintessential and unique type of cognitive diversity in our species.

**Understanding dynamic facial expression communication across cultures using data-driven methods**

**Rachael Jack, University of Glasgow**

Understanding how humans use facial expressions to communicate social messages has remained a central question for over a century. However, this is empirically challenging due to their complexity, and the use of traditional, theory-driven approaches and Western-centric biases that have restricted understanding. New data-driven methods and advances in information-theoretic analysis tools now alleviate these constraints, giving real traction and delivering novel insights. Here, I will showcase one such approach that can objectively and precisely model dynamic facial expressions within and across cultures and characterize the specific social information they transmit. We show that four, not six, core expressive patterns are cross-cultural, that facial expressions transmit distinct social information over time in an evolving, broad-to-specific hierarchical structure, and can multiplex complex information. Our work challenges longstanding beliefs of cultural universality and forms the basis of a new theoretical framework. Finally, we show direct transference of our dynamic facial expression models to the digital economy including generative signalling models for digital agents.

**The development of cooperation in a cross-cultural context**

**Katherine McAuliffe, BOSTON COLLEGE**

Cooperation is ubiquitous across human populations. Yet, the norms that govern cooperative behavior—for instance, what counts as a ‘fair’ offer and how and when transgressions should be punished—show striking cross-societal variation. An important goal for the social sciences is to better understand the mechanisms that support human cooperation and to leverage these insights to help foster cooperative relations from individual to global levels. To this end, developmental data can offer important insight into questions about the origins of cross-societal variation, shedding light on when in development different cooperative behaviors emerge and what kinds of inputs shape their emergence and expression. In this presentation, I will review three lines of work that explore cross-societal variation in the development
of different aspects of children’s cooperation. The first explores how a signature of the human sense of fairness—inequity aversion, the aversion to unequal outcomes—emerges across societies. The second builds on this first line of work exploring when and where children are willing to incur personal costs to punish unfairness in others. The third widens the lens of focus to look beyond fairness, exploring how other key cooperative behaviors—honesty, trustworthiness and forgiveness—emerge across societies. In this part of the presentation, I will touch on recent work exploring the mechanisms of cooperative norm transmission, asking whether children are differentially sensitive to normative information from adults versus peers. Together, these studies contribute to our understanding of the origins of cooperation in children across different populations and, in doing so, showcase the importance of exploring children’s emerging cooperative behavior in a cross-cultural context.

**INVITED SYMPOSIUM – GLOBAL CHALLENGES FOR COGNITIVE SCIENCE**

**FRIDAY, JULY 29TH**
8:30 – 10:10 ET IN ROOM 102, JOHN W.H. BASSETT THEATRE

*Title tba*

Gabriela de Queiroz, IBM

Coming

**The science of surviving (and thriving) in the apocalypse**

*Athena Aktipis, Arizona State University*

Humans have had to grapple with challenges including infectious diseases, famines, environmental changes, wars, and other sources of catastrophic risk throughout our evolutionary history as a species. What cognitive capacities and decision rules did our ancestors use to survive these difficulties? And what can we learn from small-scale societies about how to manage risk more effectively so that we can survive (and thrive) as we face an increasingly apocalyptic world? In this talk, I’ll explain how the four risk management strategies (risk retention, risk avoidance, risk reduction and risk transfer) can increase the resilience of individuals, communities and society at large. Drawing on a combination of anthropological fieldwork, agent-based computational models, and decision-making experiments with human participants, I will argue that we humans are indeed ‘adapted for the apocalypse,’ especially when it comes to the decision rules that we use to manage risk and help others in times of need. Scaling up these abilities to deal with the massive, wicked, and multidimensional problems of today will require creative solutions, broad interdisciplinary cooperation, and an
appreciation of the fundamental interdependence that underlies all life on this planet.

*Technology, Democracy, and Cognition: Pressure Points and Global Challenges*

Stephan Lewandowsky, *University of Bristol*

Democracy is in retreat worldwide. Even formerly stable democracies such as the U.S. and U.K. have witnessed events and actions by leaders that are incompatible with democratic norms. The reasons for these trends are complex and difficult to disentangle, but commentators and researchers almost invariably invoke the spread of misinformation and social media as possible contributing factors to the erosion of democracy. I survey the pressure points between human cognition and the current architecture of social media and how these pressure points almost inevitably contribute to an erosion of democracy. In particular, I focus on the “attention economy”, algorithmic curation of content, and manipulative choice architectures, and how they facilitate behaviors and attitudes that are endangering the common knowledge base that is essential for democratic functioning. I then review potential technological and cognitive solutions to these problems.

*Understanding and Reducing Online Misinformation Across 16 Countries on Six Continents*

David Rand, *Massachusetts Institute of Technology*

The spread of misinformation online is a global problem that requires global solutions. To that end, we conducted an experiment in 16 countries across 6 continents (N = 33,480) to investigate predictors of susceptibility to misinformation and interventions to combat misinformation. In every country, participants with a more analytic cognitive style and stronger accuracy-related motivations were better at discerning truth from falsehood; valuing democracy was also associated with greater truth discernment whereas political conservatism was negatively associated with truth discernment in most countries. Subtly prompting people to think about accuracy was broadly effective at improving the veracity of news that people were willing to share, as were minimal digital literacy tips. Finally, crowdsourced accuracy evaluation was able to differentiate true from false headlines with high accuracy in all countries. The consistent patterns we observe suggest that the psychological factors underlying the misinformation challenge are similar across the globe, and that similar solutions may be broadly effective. For pre-print PDF see psyarxiv.com/a9frz. For summary tweet thread see: twitter.com/DG_Rand/status/1493946312353619981?s=20
INVITED SYMPOSIUM – DIVERSITY AND SOCIAL INTERACTION

SATURDAY, JULY 30TH
13:00 – 14:40 ET IN ROOM 102, JOHN W.H. BASSETT THEATRE

Having the “right” emotions: The role of emotional acculturation in minority belonging

Batja Gomes de Mesquita, KU Leuven

People learn to have emotions that fit the values central to their groups or cultures, and that benefit the types of relationships that are valued there. By sharing similar emotions, individuals align themselves—often unwittingly— with these central values. Therefore, cultural variations in emotional phenomena can be understood from culturally normative relationship goals that tell individuals how to feel, when to feel and why to feel. Considered this way, having the “right” emotions is a key social competence in achieving belongingness and fit. In this talk I present cross-sectional, longitudinal and social network research on emotional acculturation, and its consequences for the belongingness and fit of immigrant minorities. I will also discuss how our insights on emotional acculturation may inform interventions to improve the belongingness of immigrant minorities.

Crowdsourcing strategies to fact-check politicians are benefited from heterogeneous social influence

Joaquin Navajas, Universidad Torcuato Di Tella

The spread of misinformation has substantially sped up in recent years, posing tangible risks to public health, democratic life, and the fight against climate change. For this reason, finding novel solutions to scale and reduce the time-intensive work of fact-checking agencies has become an urgent issue in social science. In this work, we evaluated crowd sourcing as a strategy to fact-check statements made by politicians, a type of misinformation that has been understudied in comparison to fake news. We performed a behavioural experiment (N=180) where the structure of social influence was manipulated, with the objective of identifying which communication network designs enhanced or undermined detection of 20 statements made by political leaders from a left-wing and a right-wing political party in Argentina. We found that crowds of laypeople are generally able to classify political discourse in a similar way as a fact-checking agency, but they are subject to partisan biases at the individual level. We also observed that social influence in heterogeneous dyadic interactions works as an antidote to these biases. Altogether, our results support recent efforts on developing crowdsourcing tools for aiding fact-checking over a
variety of misinformation formats, adding a precautionary note on how partisanship may limit its performance, at least in the context of fact-checking politicians.

**Effect of interpersonal diversity on real-time coordination dynamics**

Ivana Konvalinka, Technical University of Denmark

Social cognition research has so far mostly been focused on individuals isolated from social interaction, or generalized mechanisms of joint action to the average individuals, with a lack of studies investigating how similarity or diversity across dyads (or groups) modulate the interactions between them. It thus remains largely unknown how interpersonal differences along various domains influence real-time interaction dynamics. In this talk, I will first discuss how emergence of leader-follower coordination dynamics is modulated by interpersonal differences in expertise and task demands. Furthermore, I will present a preliminary study that probes into how interpersonal diversity in social network properties between dyads, extracted from longer-term social interactions, modulates their coordination dynamics in a real-time joint action task. The results suggest that the more similar participants are to each other in terms of their social network properties (e.g. how connected they are to others in the network), the more equally they contribute to the task and the more equally they adapt to each other; however, as the relative diversity between them increases, the more connected individual adapts more and contributes more toward the joint goal. The participants thus seem to embody, in real-time, their relative interpersonal differences in social network properties. Finally, I will discuss how this experimental framework can be used to probe into the effect of group diversity on emergent group coordination dynamics.

**Elusive Inclusion: Towards AI Based Interventions to Promote Inclusivity in Digitally Mediated Team Environments**

Nia Dowell, University of California, Irvine

In the current globalized world, innovation in science and technology are vital for economic competitiveness, quality of life, and national security. This trend is accelerating the increasing reliance on virtual teams and their collaborative effort to solve complex environmental, social and public health problems. To contend with these dynamic conditions, communication, and collaborative problem-solving (CPS) competencies have taken a principal role in educational policy, research, and technology. Adaptive educational technologies provide a platform to deliver personalized training to improve learners’ CPS skills. However, for these systems to optimally tailor instruction, they must have key insights into learners’ interaction dynamics and team behaviors. We have been exploring these properties by employing Group Communication Analysis (GCA), a computational linguistics
methodology for quantifying and characterizing the socio-cognitive processes between learners in online interactions. This talk will focus on recent studies where we have used GCA to gain a deeper understanding of role ecologies, learning and problem-solving, and issues of inclusivity in digitally mediated group interactions. The scalability of GCA opens the door for future research efforts directed towards improving collaborative competencies and creating more inclusive online interactions.

**SYMPOSIA**

**SYMPOSIUM 1**

*Distorted constellations: interdisciplinary perspectives on understanding reality and the self*

**THURSDAY, JULY 28TH 15:00 - 16:40 ET**

**ROOM 102 - JOHN W. H. BASSETT THEATRE**

*Speakers: Nwando Ebizie, Atelier Nwando Ltd; Simon J Cropper, Melbourne School of Psychological Sciences; Sophie Scott, University College London; Erinma Ochu, Manchester Metropolitan University, Chair*

Visual Snow is a neurological condition that causes a person to experience an ‘augmented’ reality of auras, glowing lines, depression, anxiety and depersonalisation (Solly et al. 2021). Whilst Visual Snow produces a collection of different symptoms, it is a clinically recognised disorder (Puledda et al. 2020). A commonly experienced visual symptom is described as the ‘persistent effect of television “snow”’, and was first described in the literature in 1995 (Liu et al. 1995).

Distorted Constellations is an immersive sensory, labyrinthine environment and playful experience of an augmented reality interpretation of the artist’s unique perception of the world. The exhibit draws on the rare neurological syndrome Visual Snow experienced by the artist and informed by disciplinary perspectives from neurology, cognitive neuroscience and psychological science. The exhibition, public events and recent inbuilt psychological study, embrace the subjective nature of perception whilst highlighting a role for augmented reality art experiences as cognitive science experiments.
SYMPOSIUM 2

Diversity in Children’s Temperament: Perspectives on Shyness in Interaction

THURSDAY, JULY 28TH
15:00 - 16:40 ET Room 103 - North Building

Speakers: Franziska Viertel, Paderborn University; Sarah Kucker, Oklahoma State University; Kristie Poole, University of Waterloo; Matt Hilton, University of Potsdam; Nils F. Tolksdorf, Paderborn University, Chair

One key dimension of individual differences that affects children’s development, interactional behavior, and cognitive processes is temperamental shyness—a tendency to be reluctant or anxious in the face of new social situations. Prior research has documented shyness holds the potential to negatively impact a child’s social functioning, psychological health, and language abilities. However, emerging research from different disciplinary angles sheds a more positive light on shyness by illustrating adaptive aspects such as benefits in social cognitive and communicative functioning (Viertel, 2019). Furthermore, there is accumulating evidence that shyness may not necessarily have a detrimental effect on language learning, especially when knowledge is assessed under familiar conditions (Kucker et al., 2021; Tolksdorf et al., 2021). However, although considered a ubiquitous phenomenon, the relation between shyness and other cognitive, perceptual, and social processes in childhood remains far from understood. Thus, by drawing together multiple levels of analyses and perspectives, the aim of this symposium is to emphasize the diverse manifestations of shyness in interactional settings and its impact on empathy, language, and social interactions.

SYMPOSIUM 3

Dimensions of Diversity in Spatial Cognition: Culture, Context, Age, and Ability

FRIDAY, JULY 29TH
10:20 - 12:00 ET ROOM 102 - JOHN W. H. BASSETT THEATRE

Speakers: Tyler Marghetis, University of California, Merced; Benjamin Pitt, University of California, Berkeley, Chair; Holly Huey, University of California, San Diego; Roberto Bottini, Center for Mind/Brain Sciences (CIMeC), University of Trento

Throughout the lifespan and across cultures, all human behavior happens in space. By early childhood, people are capable of navigating complex 3D environments, executing sophisticated motor plans, and coordinating action with others. They also use their representations of space to structure a variety of non-spatial concepts, including time,
number, similarity, and emotion. How do people perform these cognitive feats? One source of insight comes from studying the diversity of spatial cognition: Although the physical properties of space are invariant, the way people typically conceptualize space varies radically across groups, between individuals, and over development. By studying this variation in spatial cognition, we can better understand the universal set of cognitive and neural mechanisms that underlie it, with implications for the cognitive sciences, education, and design.

In that spirit, this symposium brings together researchers who work in disparate subfields (i.e. neuroscience, complexity science, cognitive psychology, developmental psychology) to discuss four different dimensions of diversity in spatial cognition, as it varies across cultures, contexts, ages, and abilities. [Paper1] focuses on cross-cultural diversity at a global scale. Taking a systems-level approach, this work leverages decades of published field work across dozens of cultures to clarify patterns and predictors of spatial cognition, and to identify blind spots and biases in the kinds of cultures that have been sampled. [Paper2] zooms in on a single culture — the Tsimane’ of Bolivia. By studying how spatial concepts (and spatial language) vary at the level of the individual, this work seeks to clarify the principles that govern such variation, at any level. [Paper3] focuses on changes in spatial cognition over development. By comparing the geometrical intuitions of children and adults (within and across cultures), this work helps to clarify the universal and cultural origins of our visuospatial knowledge. Finally, [Paper4] investigates how blindness alters neural representations of space. Using fMRI techniques in congenitally-blind adults, this work clarifies the role of vision in cognitive maps, the foundation of spatial navigation. Together, these talks offer a multi-dimensional view of spatial cognitive diversity, and motivate interdisciplinary approaches to the study of the mind.

SYMPOSIUM 4

Race, Culture, and Language: A SPARK-Sponsored Symposium

FRIDAY, JULY 29TH
10:20 - 12:00 ET ROOM 103 - NORTH BUILDING

Speakers: Jeni Kubota, University of Delaware; Ronda Lo, York University; Arturo Hernandez, University of Houston; Onur Özsoy, Leibniz-Centre General Linguistics; Natasha Tokowicz, University of Pittsburgh, Chair; Nichol Castro, University of Buffalo, Chair

In the first half of the symposium, there will be two speakers discussing the perception of race and culture, and its impact on the cognitive processes of bias and attention. In the second half of the symposium, there will be two speakers discussing linguistic diversity through the lens of heritage speakers and word etymology.
SYMPOSIUM 5

Competing perspectives on building ethical AI: psychological, philosophical, and computational approaches

FRIDAY, JULY 29TH
14:20 - 16:00 ET ROOM 102 - JOHN W. H. BASSETT THEATRE

Speakers: Sydney Levine, Harvard Psychology Department & MIT Department of Brain and Cognitive Sciences, Chair; Joshua August Skorburg, University of Guelph; Dan Hendrycks, UC Berkeley; Zhijing Jin, Max Planck Institute & ETH Zurich; Katherine Heller, Google Brain, Discussant

AI systems that dynamically navigate the human world will sometimes need to predict and produce human-like moral judgments. This task requires integrating complex information about human moral cognition (what decision would humans make in this situation?), normative ethics (what is the right decision for an AI to make?), and artificial intelligence engineering (how can we implement this functionality in AI systems?).

A range of solutions have begun to emerge within the cognitive science community to satisfy these three categories of demands. However, most solutions tend to satisfy some demands, while falling short on others. This symposium highlights four competing solutions for building AI with a human-like moral sense -- with the goal of highlighting the strengths and weaknesses of each approach and how each might complement the others in development and deployment going forward.

SYMPOSIUM 6

Innateness, Universals, Diversity

FRIDAY, JULY 29TH
14:20 - 16:00 ET ROOM 103 - NORTH BUILDING

Speakers: Iris Berent, Northeastern University, Chair; Richard Samuels, The Ohio State University; Jennifer Culbertson, University of Edinburgh; Asifa Majid, Oxford University

What is human nature like: is the mind equipped with innate principles of core knowledge? If so, how can we account for the well-recognized diversity in human cognition? And how can we, cognitive scientists, “get” human nature better—minimizing the pitfalls of our intuitive cognitive biases and our narrow WEIRD perspective?

This symposium seeks to address the question of human nature from a broad interdisciplinary perspective. We begin by examining the notion of “human nature” and the concept of innateness (Samuels) and exploring some of the challenges facing its discovery by the confinements of our own human cognition (Berent). The next talk (Culbertson) explores the tensions between cognitive universals and
diversity in the domain of language and demonstrates the merits of a cross-linguistic perspective. The last talk (Majid) considers how culture and nurture can shed light on human nature by examining the linguistic expression of perceptual categories across cultures.

**SYMPOSIUM 7**

*Universality and Diversity in Event Cognition and Language*

**SATURDAY, JULY 30TH**

8:30 - 10:10 ET ROOM 103 - NORTH BUILDING

*Speakers: Lilia Rissman, University of Wisconsin – Madison; Ercenur Ünal, Özyeğin University; Arrate Isasi-Isasmendi, University of Zurich; Yue Ji, Beijing Institute of Technology, Chair*

Humans are surprisingly adept at interpreting what is happening around them – they spontaneously and rapidly segment and organize their dynamic experience into coherent event construals. Such event construals may offer a starting point for assembling a linguistic description of the event during speaking (Levelt, 1989). However, the precise format of event representations and their mapping to language have remained elusive, partly because research on how people mentally segment and perceive events (see Radvansky & Zacks, 2014 for a review) has largely proceeded separately from analyses of how events are encoded in language (see Truswell, 2019 for a review).

**SYMPOSIUM 8**

*Bilingual Sentence Processing: when Models Meet Experiments*

**SATURDAY, JULY 30TH**

15:00 - 16:40 ET ROOM 103 - NORTH BUILDING

*Speakers: Xavier Hinaut, Bordeaux University, Stefan L. Frank, Radboud University, Chair; Edith Kaan, University of Florida; Yung Han Khoe, Radboud University; Lin Chen, University of Pittsburgh; Irene Winther, University of Edinburgh; Yevgen Matusevych, University of Edinburgh*

Although sentence comprehension and production are increasingly often studied by combining computational modeling and human experiments, this approach remains mostly restricted to studies of monolingual or first-language (L1) processing. There are currently only very few sentence-level computational models of second-language (L2) or bilingual processing (Frank, 2021). This lack of computational specifications can hamper further progress in bilingualism research. Moreover, better understanding of bilingual processing will give more insights into more general mechanisms such as cognitive control processes involved while switching languages (Luk et al., 2012). Our symposium aims to bring together researchers from different labs and
with different research traditions, working on the intersection of models and experiments in bilingual sentence processing. The symposium has four talks, by Edith Kaan (associate professor, specializing in psycholinguistics of bilingualism), Yung Han Khoe (PhD student, working on models of bilingual sentence production), Lin Chen (research associate with an expertise in reading processes), and a joint talk by Irene Winther and Yevgen Matusevych (PhD student and research associate, respectively, in computational cognitive science of language). Finally, we will have a panel discussion to suggest how models could be challenged by experimental data, and provide new explanatory mechanisms. This discussion will be moderated by Xavier Hinaut (research scientist in computational neuroscience) and Stefan Frank (associate professor in computational psycholinguistics).

SPONSOR SESSION SUMMARY

Learning Science Jobs at Duolingo

FRIDAY, JULY 29TH
12:00 - 13:00 ROOM 101

Bozena Pajak, VP of Learning and Curriculum

Duolingo is the most popular language-learning application in the world, with over 500 million users and over half a billion exercises completed daily. We are passionate about providing free education to the world, making data-driven and science-based decisions, and finding innovative solutions to complex problems. We offer meaningful work, limitless learning opportunities, and close collaboration with brilliant minds across different roles and backgrounds. Come to this session to learn more about our jobs for people with research training in learning sciences and language learning. At Duolingo, you will have an opportunity to apply your skills and knowledge in a fast-paced, collaborative environment, where you see the immediate impact of your work on millions of learners worldwide. You can also check out our job postings here: careers.duolingo.com
T1.1 Information sampling explains Bayesian learners’ biases in correlation judgment
Presenting Author: Lisheng He
Xiumei Zhang: Shanghai International Studies University; Lisheng He: Shanghai University; Sudeep Bhatia: University of Pennsylvania

T1.2 Use of clustering in human solutions of the traveling salesperson problem
Presenting Author: Vijay Marupudi
Vijay Marupudi: Georgia Tech; Rina Harsch: University of Minnesota; V. N. Vimal Rao: University of Minnesota-Twin Cities; Jimin Park: University of Minnesota; Jeffrey K. Bye: University of Minnesota; Sashank Varma: Georgia Tech

T1.3 Climbing the Tree: Structured Hierarchical Representations in Visuomotor Maps
Presenting Author: Juliana E. Trach
Juliana E. Trach: Yale University; Samuel David McDougle: Yale University

T1.4 Three-Dimensional Object Completion in Humans and Computational Models
Presenting Author: Eunice Yiu
Eunice Yiu: UC Berkeley; Jasmine Collins: UC Berkeley; Alison Gopnik: University of California at Berkeley

T1.5 Towards a Model of Visual Reasoning
Presenting Author: Ekaterina Y. Shurkova
Ekaterina Y. Shurkova: University of Edinburgh; Leonidas A. A. Doumas: University of Edinburgh

T2.1 An EZ-circular diffusion model of continuous decision processes
Presenting Author: Hasan Qarehdaghi
Hasan Qarehdaghi: Shahid Beheshti University; Jamal Amani Rad: Shahid Beheshti University

T2.2 Affective Factors Affect Visuospatial Decision-making: A Drift Diffusion Modeling Approach
Presenting Author: Yaxin Liu
Yaxin Liu: Emory University; Stella Lourenco: Emory University

T2.3 Empirical and Computational Evidence for Reconfiguration Costs During Within-Task Adjustments in Cognitive Control
Presenting Author: Dr. Ivan Grahek
Ivan Grahek: Brown University; Xiamin Leng: Brown University; Mahalia Prater Fahey: Brown University; Debbie Yee: Brown University; Amitai Shenhar: Brown University

T2.4 An Affective Probability Weighting Function for Risky Choice with Nonmonetary Outcomes
Presenting Author: Kamil Fulawka
Kamil Fulawka: Max Planck Institute for Human Development; Thorsten Pachur: Max Planck Institute for Human Development

T2.5 “Because I want to”: Valuing goals for their own sake
Presenting Author: Junyi Chu
Junyi Chu: Massachusetts Institute of Technology; Laura Schulz: Massachusetts Institute of Technology

T3.1 Modeling risky food sharing as rational communication about relationships
Presenting Author: Michelle Simona Hung
Michelle Simona Hung: MIT; Ashley J Thomas: Massachusetts Institute of Technology; Setayesh Radkani: MIT; Josh Tenenbaum: MIT; Rebecca Saxe: MIT

T3.2 Modeling punishment as a rational communicative social action
Presenting Author: Setayesh Radkani
Setayesh Radkani: MIT; Josh Tenenbaum: MIT; Rebecca Saxe: MIT

T3.3 Inferring epistemic intention in simulated physical microworlds
Presenting Author: Stephanie Droop
Stephanie Droop: University of Edinburgh; Neil R Bramley: University of Edinburgh

T3.4 Reasoning about the antecedents of emotions: Bayesian causal inference over an intuitive theory of mind
Presenting Author: Sean Dae Houlihan
Sean Dae Houlihan: MIT; Desmond Ong: National University of Singapore; Maddie Cusimano: Massachusetts Institute of Technology; Rebecca Saxe: MIT

T3.5 Partner effects and individual differences on perspective taking
Presenting Author: Jia Loy
Jia Loy: Saarland University; Vera Demberg: Saarland University

T4.1 ‘Sally the Congressperson’: The Role of Individual Ideology on the Processing and Production of English Gender-Neutral Role Nouns
Presenting Author: Mx. Brandon Papineau
Brandon Papineau: Stanford University; Rob Podesva: Stanford University; Judith Degen: Stanford University
T4.2 Evaluating models of referring expression production on an emerging sign language
Presenting Author: Brandon Waldon
Leyla Kursat: Stanford University; Brandon Waldon: Stanford University; Rabia Ergin: Boğaziçi; Judith Degen: Stanford University

T4.3 Statistical learning of orthotactic constraints: new insights from typing
Presenting Author: Dr. Nilsu Atilgan
Nilsu Atilgan: Carnegie Mellon University; Elizabeth Chu: Carnegie Mellon University; Nazbanou Nozari: Carnegie Mellon University

T4.4 Woman or tennis player? Visual typicality and lexical frequency affect variation in object naming
Presenting Author: Eleonora Gualdoni
Eleonora Gualdoni: Universitat Pompeu Fabra; Thomas Brochhagen: Universitat Pompeu Fabra; Andreas Mädebach: Universidad Pompeu Fabra; Gemma Boleda: Universitat Pompeu Fabra

T4.5 The bouba-kiki effect in a production task
Presenting Author: Mahayana Godoy
Mahayana Godoy: Federal University of Rio Grande do Norte; Thayná Ananias: UFRN

T5.1 A Naturalness Gradient Shapes the Learnability and Cross-Linguistic Distribution of Morphological Paradigms
Presenting Author: Dr. Carmen Saldana
Carmen Saldana: University of Zurich; Borja Herce: University of Zurich; Balthasar Bickel: University of Zurich

T5.2 Word formation supports efficient communication: The case of compounds
Presenting Author: Aotao Xu
Aotao Xu: University of Toronto; Charles Kemp: University of Melbourne; Lea Frermann: University of Melbourne; Yang Xu: University of Toronto

T5.3 Can a pressure against homophones explain phonological neighborhoods?
Presenting Author: Sean Trott
Sean Trott: UC San Diego; Benjamin Bergen: UC San Diego

T5.4 The complexity of a language is shaped by the communicative needs of its users and by the hierarchical nature of their social inferences
Presenting Author: Vlad C Nedelcu
Vlad C Nedelcu: University of Edinburgh; Kenny Smith: University of Edinburgh

T5.5 The Influence of Category-specific and System-wide Preferences on Cross-Linguistic Word Order Patterns
Presenting Author: Annie Holtz
Annie Holtz: The University of Edinburgh; Simon Kirby: The University of Edinburgh; Jennifer Culbertson: University of Edinburgh

T6.1 Social Interaction Dynamics Modulates Collective Creativity
Presenting Author: Lior Noy
Maor Rosenberg: Tel-Aviv University; Goren Gordon: Tel Aviv University; Lior Noy: Ono Academic College (OAC); Kristian Tylen: Aarhus University

T6.2 Ingroup-Biased Copying Promotes Cultural Diversity and Complexity
Presenting Author: Marcel Montrey
Marcel Montrey: McGill University; Thomas Shultz: McGill University

T6.3 Conceptual recoding of new ideas during and after solution of an insight problem
Presenting Author: Professor Thomas C Ormerod
Thomas C Ormerod: University of Sussex; James N. MacGregor: University of Victoria; Adrian Banks: University of Surrey; Patrice Rusconi: University of Messina

T6.4 Diversity in Mathematical Insight Experiences in the Wild: Evidence of Opportunistic Assimilation
Presenting Author: Stacy Shaw
Stacy Shaw: Worcester Polytechnic Institute

T6.5 Mathematical insights as novel connections: Evidence from expert mathematicians
Presenting Author: Shadab Tabatabaeian
Shadab Tabatabaeian: University of California Merced; Artemisia Deluna: -; David Landy: Indiana University, Bloomington; Tyler Marghetis: University of California, Merced

T7.1 Relation Representations in Analogical Reasoning and Recognition Memory
Presenting Author: Nicholas Ichien
Nicholas Ichien: University of California, Los Angeles; Katherine L Alfred: Dartmouth College; Sophia Rose Baia: University of California, Berkeley; David J. M. Kraemer: Dartmouth College; Silvia Bunge: University of California, Berkeley; Hongjing Lu: UCL

T7.2 Structural vs. Superficial Similarity During Unprompted Analogical Retrieval: Which one Exerts a Greater Force?
Presenting Author: Ricardo Minervino
Ricardo A Minervino: University of Comahue; Maximo Trench: University of Comahue
T7.3 From Vision to Reasoning: Probabilistic Analogical Mapping Between 3D Objects
Presenting Author: Shuhao Fu
Shuhao Fu: UCLA; Hongjing Lu: UCLA; Keith Holyoak: University of California, Los Angeles

T7.4 Generative Inferences in Relational and Analogical Reasoning: A Comparison of Computational Models
Presenting Author: Nicholas Ichien
Nicholas Ichien: University of California, Los Angeles; Angela Kan: University of California, Los Angeles; Keith Holyoak: University of California, Los Angeles; Hongjing Lu: UCLA

T7.5 Building Blocks of Recursive Pattern Processing in Human Adults
Presenting Author: Abhishek Dedhe
Abhishek Dedhe: Carnegie Mellon University; Steven Piantadosi: UC Berkeley; Jessica Cantlon: Carnegie Mellon University

T8.1 Language universals rely on social cognition: Computational models of the use of this and that to redirect the receiver’s attention
Presenting Author: Dr. Marieke S Woensdregt
Marieke S Woensdregt: Max Planck Institute for Psycholinguistics; Julian Jara-Ettinger: Yale University; Paula Rubio-Fernandez: University of Oslo

T8.2 Rational Inference from Number Agreement Mismatch
Presenting Author: Peng Qian
Peng Qian: MIT; Edward Gibson: Massachusetts Institute of Technology; Roger Levy: Massachusetts Institute of Technology

T8.3 A Mentalistic Semantics Explains “Each” and “Every” Quantifier Use
Presenting Author: Tyler Knowlton
Tyler Knowlton: University of Pennsylvania; John Trueswell: University of Pennsylvania; Anna Papafragou: University of Pennsylvania

T8.4 Teasing apart models of pragmatics using optimal reference game design
Presenting Author: Irene Zhou
Irene Zhou: Massachusetts Institute of Technology; Jennifer Hu: Massachusetts Institute of Technology; Roger Levy: Massachusetts Institute of Technology; Noga Zaslavsky: MIT

T8.5 A Rational Speech-Act model for the pragmatic use of vague terms in natural language
Presenting Author: Alexandre Cremers
Alexandre Cremers: Vilnius Universitetas

T9.1 Event structure predicts temporal interpretation of English and German past-under-past relative clauses
Presenting Author: Eva Wittenberg
Elena Marx: Central European University; Eva Wittenberg: Central European University

Presenting Author: Michael Reynolds
Robert S McCann: NASA Ames Research Center (ret); Blair C. Armstrong: University of Toronto; Michael G. Reynolds: Trent University; Derek Besner: University of Waterloo

T9.3 Readers do not strongly rely on full-context information, but might utilize local word statistics, when ‘correcting’ word transposition errors in text
Presenting Author: Kuan-Jung Huang
Kuan-Jung Huang: University of Massachusetts; Adrian Staub: University of Massachusetts

T9.4 The perceptual generalization of normalized cue distributions across speakers
Presenting Author: Wei Lai
Wei Lai: Vanderbilt University; Aini Li: University of Pennsylvania

T9.5 Individuals differ cross-linguistically in cue weighting: A computational evaluation of cue-based retrieval in sentence processing
Presenting Author: Himanshu Yadav
Himanshu Yadav: University of Potsdam; Garrett Smith: Universität Potsdam; Daniela Mertzen: University of Potsdam; Ralf Engbert: University of Potsdam; Shravan Vasishth: Potsdam

T10.1 Distinct Developmental Trajectories In The Cognitive Components Of Complex Planning
Presenting Author: Wei Ji Ma
Ili Ma: Leiden University; Camille V Phaneuf: Harvard University; Bas van Opheusden: Princeton University; Wei Ji Ma: New York University; Catherine Hartley: New York University

T10.2 Revisiting the Inverted-U: Congruency Tasks Reveal Divergent Developmental Trajectories
Presenting Author: Dr. Christopher D. Erb
Christopher D. Erb: University of Auckland; Laura Germine: McLean Hospital; Joshua K Hartshorne: Boston College

T10.3 Young children learn equally from real and thought experiments
Presenting Author: Igor Bascandziev
Igor Bascandziev: Harvard Graduate School of Education; Susan Carey: Harvard University
**T10.4 The Role of Alternatives in Children’s Reasoning about Constrained Choices**  
Presenting Author: Dr. Jamie Amemiya  
Jamie Amemiya: University of California, San Diego; Gail D. Heyman: UC San Diego; Caren M. Walker: University of California San Diego

**T10.5 Eight-Month-Old Infants’ Social Evaluations of Agents Who Act on False Beliefs**  
Presenting Author: Brandon Matthew Woo  
Brandon Matthew Woo: Harvard University; Elizabeth Spelke: Harvard University

**T11.1 Defending Diversity: Providing Examples from Different Domains Enhances Application of System Principles Beyond the Domains Covered by the Examples**  
Presenting Author: Maximo Trench  
Verónica S D’Angelo: Universidad Nacional de Córdoba; Maximo Trench: University of Comahue

**T11.2 Differentiating Exceptions in Rule-Plus-Exception Category Learning**  
Presenting Author: Yongzhen Xie  
Yongzhen Xie: University of Toronto; Michael L. Mack: University of Toronto

**T11.3 Rule discovery performance unchanged by incentives**  
Presenting Author: Pamela Joy Osborn Popp  
Pamela Joy Osborn Popp: New York University; Ben Newell: University of New South Wales; Daniel Bartels: University of Chicago; Todd M Gureckis: New York University

**T11.4 Categorization in Environments that Change when People Learn**  
Presenting Author: Manuel Villarreal  
Manuel Villarreal: University of California Irvine; Sahar Vaday: University of California Irvine; Michael Lee: University of California Irvine

**T11.5 Can Humans Do Less-Than-One-Shot Learning?**  
Presenting Author: Maya Malaviya  
Maya Malaviya: Princeton University; Ilia Sucholutsky: Princeton University; Kerem Oktar: Princeton University; Tom Griffiths: Princeton University

**T12.1 Evidence for Multiple Mechanisms Underlying List-Method Directed Forgetting**  
Presenting Author: Hannah Dames  
Hannah Dames: University of Freiburg; Daniel Brand: University of Technology Chemnitz; Marco Ragni: TU Chemnitz

**T12.2 Emphasizing associations from encoding affects free recall at retrieval**  
Presenting Author: Bryan Hong  
Bryan Hong: University of Toronto; Carleigh A Pace-Tonna: University of Toronto; Morgan Barense: University of Toronto; Michael L. Mack: University of Toronto

**T12.3 A model of free recall for multiple encounters of semantically related stimuli with an application to understanding cognitive impairment**  
Presenting Author: Holly A Westfall  
Holly A Westfall: University of California, Irvine; Michael Lee: UC Irvine

**T12.4 Learning depends on knowledge: The benefits of retrieval practice vary for facts and skills**  
Presenting Author: Paulo Carvalho  

**T12.5 Thinking about doing: Representations of skill learning**  
Presenting Author: Xiuyuan Zhang  
Xiuyuan Zhang: Yale University; Samuel David McDougle: Yale University; Julia Anne Leonard: Yale University

**T13.1 The value of host-country language: The effect of Dutch language proficiency on immigrants’ income, savings and financial wealth in the Netherlands**  
Presenting Author: Dr Yan Gu  
Yeqiu Zheng: Erasmus University Rotterdam; Yan Gu: UCL; Albert Backus: Tilburg University; Arthur van Soest: Tilburg University

**T13.2 Speech Rhythm Auto-Recurrence is Negatively Linked to Quality of Mental-Health Counseling Interactions**  
Presenting Author: Dr Vera Kempe  
Vera Kempe: Abertay University; Mark A. Adams: University of Reading; George Lovell: Abertay University; Janet F McLean: Abertay University; Kate Smith: Abertay University

**T13.3 Effects of Language on Social Essentialist Beliefs and Stigma about Mental Illness**  
Presenting Author: Katherine Williams  
Katherine Williams: University of Texas at Austin; A. Alban Fouler: University of Texas at Austin; Katharine A Tillman: UT Austin
T13.4 So much for plain language: An analysis of the accessibility of United States federal laws (1951-2009)
Presenting Author: Eric Martinez
Eric Martinez: Massachusetts Institute of Technology; Francis Mollica: University of Edinburgh; Edward Gibson: Massachusetts Institute of Technology

T13.5 What carries greater social weight, a linguistic variant’s local use or its typical use?
Presenting Author: Charlotte Vaughn
Charlotte Vaughn: University of Maryland

T14.1 Immature vocalizations simplify the speech of Tseltal Mayan and US caregivers
Presenting Author: Steven Elmlinger
Steven Elmlinger: Cornell University; Michael Goldstein: Cornell University; Marisa Casillas: University of Chicago

T14.2 Semantic priming supports infants’ ability to represent and name unseen objects
Presenting Author: Dr. Elena Luchkina
Elena Luchkina: Northwestern University; Sandra Waxman: Northwestern University

T14.3 Does Contextual Diversity hinder Early Word Acquisition?
Presenting Author: Tyler A Chang
Tyler A Chang: UC San Diego; Benjamin Bergen: UC San Diego

T14.4 Language learners’ unacceptability judgments improve with repeated exposure to acceptable sentences
Presenting Author: Karina Tachihiara
Karina Tachihiara: Princeton University; Adele Goldberg: Princeton University

T14.5 Estimating demographic bias on tests of children’s early vocabulary
Presenting Authors: George Kachergis & Nathan Francis
George Kachergis: Stanford University; Nathan Francis: Stanford University; Michael C. Frank: Stanford University

T15.2 Eye-tracking mental simulation during retrospective causal reasoning
Presenting Author: Kristina Krasich
Kristina Krasich: Duke University; Kevin O’Neill: Duke University; Felipe DeBrigard: Duke University

T15.3 Using pretense behavior to explore counterfactual self-simulation
Presenting Author: Matan Mazor
Matan Mazor: Birkbeck, University of London; Chaz Firestone: Johns Hopkins University; Ian Phillips: Johns Hopkins University

T15.4 Domain-general modal spaces play a foundational role throughout high-level cognition
Presenting Author: Jonathan Phillips
Eli Hecht: Dartmouth College; Jonathan Phillips: Dartmouth College

T15.5 No privileged link between intentionality and causation: Generalizable effects of agency in language
Presenting Author: Sehrang Joo
Sehrang Joo: Yale University; Sami R Yousef: Yale University; Fabienne Martin: Humboldt-Universität zu Berlin; Frank Keil: Yale University; Joshua Knobe: Yale University

T16.1 What is the CRT? Intelligence, Personality, Decision Style or Attention?
Presenting Author: Dr Matthew Brian Welsh
Matthew Brian Welsh: University of Adelaide

T16.2 A Right Way to Explain? Function, Mechanism, and the Order of Explanations
Presenting Author: Amanda McCarthy
Amanda McCarthy: Yale University; Frank Keil: Yale University

T16.3 The Diversity of Argument-Making in the Wild: from Assumptions and Definitions to Causation and Anecdote in Reddit’s “Change My View”
Presenting Author: Prof Simon DeDeo
Robin W Na: Massachusetts Institute of Technology; Simon DeDeo: Carnegie Mellon University

T16.4 Generalizing Syllogistic Reasoning: Extending Syllogisms to General Quantifiers
Presenting Author: Marco Ragni
Daniel Brand: Chemnitz University of Technology; Maximilian Mittenbühler: University of Freiburg; Marco Ragni: TU Chemnitz
**T16.5 Question-answer dynamics in deductive fallacies without language**
Presenting Author: Dr. Woojin Chung
Woojin Chung: Seoul National University; Nadine Bade: University of Potsdam; Sam Blanc-Cuenca: École Normale Supérieure; Salvador Mascarenhas: École Normale Supérieure

**T17.1 There must be another way! Girls are disadvantaged when divesting from inaccurate teaching is required**
Presenting Author: Mia Radovanovic
Mia Radovanovic: University of Toronto; Ece Yucer: University of Toronto; Jessica Sommerville: University of Toronto

**T17.2 Inhibitory Control Predicts Academic Performance Beyond Fluid Intelligence and Processing Speed in English-Immersed Chinese High Schoolers**
Presenting Author: Adam John Privitera
Adam John Privitera: Wenzhou-Kean University; Yu Zhou: Wenzhou-Kean University; Xiaoyi Xie: Wenzhou-Kean University; Dandan Huang: Small Bird Education

**T17.3 Adolescents are most motivated by encouragement from someone who knows their abilities and the domain**
Presenting Author: Mika Asaba
Mika Asaba: Yale University; Melissa Santos: Yale University; Julian Jara-Ettinger: Yale University; Julia Anne Leonard: Yale University

**T17.4 The source and type of feedback influence children’s mathematics performance**
Presenting Author: Megan V Merrick
Megan V Merrick: Indiana University - Bloomington; Emily R. Fyfe: Indiana University

**T17.5 Testing a Unified Model of Arithmetic**
Presenting Author: Dr David W Braithwaite
David W Braithwaite: Florida State University; Robert Siegler: Teachers College, Columbia University

**T18.2 Getting Situated: Comparative Analysis of Language Models With Experimental Categorization Tasks**
Presenting Author: Andy Edinger
Andy Edinger: Indiana University; Robert Goldstone: Indiana University

**T18.3 Semantic features of object concepts generated with GPT-3**
Presenting Author: Hannes Hansen
Hannes Hansen: Max Planck Institute for Human Cognitive and Brain Sciences; Martin N Hebart: Max Planck Institute for Human Cognitive and Brain Sciences

**T18.4 A Neural Dynamic Model Perceptually Grounds Nested Noun Phrases**
Presenting Author: M.Sc. Daniel Sabinasz
Daniel Sabinasz: Institut für Neuroinformatik; Gregor Schöner: Ruhr-Universität Bochum

**T18.5 Structured, flexible, and robust: benchmarking and improving large language models towards more human-like behavior in out-of-distribution reasoning tasks**
Presenting Author: Katherine M Collins
Katherine M Collins: MIT; Catherine Wong: Massachusetts Institute of Technology; Jiahai Feng: MIT; Megan Wei: Massachusetts Institute of Technology; Josh Tenenbaum: MIT

**T19.1 Cross-modal perceptual learning in learning a tonal language**
Presenting Author: Dr Xin Wang
Xin Wang: Macquarie University; Luan Li: East China Normal University; Bob McMurray: University of Iowa

**T19.2 “Most” is easy but “least” is hard: Novel determiner learning in 4-year-olds**
Presenting Author: Dr Angela Xiaoxue He
Angela Xiaoxue He: Hong Kong Baptist University; Alexis C Wellwood: University of Southern California

**T19.3 From doggy to dog: Developmental shifts in children’s use of register-specific words**
Presenting Author: Kennedy Casey
Kennedy Casey: University of Chicago; Marisa Casillas: University of Chicago

**T19.4 Mapping words to the world: Adults prioritize grammar, but children prioritize descriptions**
Presenting Author: Gabor Brody
Gabor Brody: Brown University; Roman Feiman: Brown University
T19.5 Preschoolers and adults make inferences from novel metaphors
Presenting Author: Rebecca Zhu
Rebecca Zhu: University of California, Berkeley; Alison Gopnik: University of California at Berkeley

T20.1 Attentional Bias for Self-Face: Investigation using Drift Diffusion Modelling
Presenting Author: Ms. Aditi Jublie
Aditi Jublie: Indian Institute of Technology Kanpur; Devpriya Kumar: Indian Institute of Technology, Kanpur

T20.2 Exploring the Racial Bias in Pain Detection with a Computer Vision Model
Presenting Author: Virginia de Sa
Sarah Fabi: University of Tübingen; Xiaojing Xu: University of California San Diego; Virginia de Sa: UC San Diego

T20.3 Categorizing Ambiguous Facial Expressions
Presenting Author: Ilya Nudnou
Ilya Nudnou: North Dakota State University; Benjamin Balas: North Dakota State University

T20.4 Modeling Cue-integration in Emotion Inferences
Presenting Author: Srishit Goel
Srishit Goel: Yale University; Julian Jara-Ettinger: Yale University; Maria T Gendron: Yale University

T20.5 Alignment of Knowing Versus Feeling the Emotion in Music During Middle-Childhood
Presenting Author: Rista C Plate
Rista C Plate: University of Pennsylvania; Callie Jones: University of Pennsylvania; Joshua Steinberg: University of Pennsylvania; Grace Daley: University of Pennsylvania; Sylvia Zhao: University of Pennsylvania; Rebecca Waller: University of Pennsylvania

T21.1 Children’s Judgments About Asking for Past, Present, and Future Information from Google and a Person
Presenting Author: Lauren Girouard-Hallam
Lauren Girouard-Hallam: University of Louisville; Judith Danovitch: University of Louisville

T21.2 Trusting algorithms: performance, explanations, and sticky preferences
Presenting Author: Mr Garston Liang
Garston Liang: University of New South Wales; Ben Newell: University of New South Wales

T21.3 How do people incorporate advice from artificial agents when making physical judgments?
Presenting Author: Erik Brockbank
Erik Brockbank: University of California San Diego; Haoliang Wang: University of California, San Diego; Justin Yang: University of California, San Diego; Suvir Mirchandani: Stanford University; Erdem Biyik: Stanford University; Dorsa Sadigh: Stanford University

T21.4 Fuzzy Performance Profiles: Towards Personalized CPR Refresher Training
Presenting Author: Florian Sense
Florian Sense: InfiniteTactics LLC; Lauren Sanderson: RQI Partners, LLC; Joshua Onia: RQI Partners, LLC; Michael Krusmark: Wright-Patterson Air Force Base; Joshua Fiechter: Kairos Research; Michael Gordon Collins: Wright State University; Tiffany Jastrzem

T21.5 The Power of Nudging: Exploring Three Interventions for Metacognitive Skills Instruction across Intelligent Tutoring Systems
Presenting Author: Mark Abdelshiheed
Mark Abdelshiheed: North Carolina State University; John Wesley Hostetter: North Carolina State University; Preya Shabrina: North Carolina State University; Tiffany Barnes: North Carolina State University; Min Chi: North Carolina State University

T22.1 Bridging DFT and DNNs: A neural dynamic process model of scene representation, guided visual search and scene grammar in natural scenes
Presenting Author: Raul Grieben
Raul Grieben: Ruhr-Universität Bochum; Gregor Schöner: Ruhr-Universität Bochum

T22.2 A Developmentally-Inspired Examination of Shape versus Texture Bias in Machines
Presenting Author: Alexia R. Tartaglini
Alexia R. Tartaglini: New York University; Wai Keen Vong: New York University; Brenden Lake: New York University

T22.3 Biological Softmax: Demonstrated in Modern Hopfield Networks
Presenting Author: Mallory A Snow
Mallory A Snow: University of Waterloo; Jeff Orchard: University of Waterloo

T22.4 CogNGen: Building the Kernel for a Hyperdimensional Predictive Processing Cognitive Architecture
Presenting Author: Dr. Alexander Ororbia
Alexander Ororbia: Rochester Institute of Technology; M. Alex Kelly: Carleton University
T22.5 The Perceiver Architecture is a Functional Global Workspace

Presenting Author: Dr. Arthur Juliani

T23.1 The impact of mask use on social categorization

Presenting Author: Ms Yueyuan Zheng
Yueyuan Zheng: University of Hong Kong; Danni Chen: University of Hong Kong; Xiaojing Hu: University of Hong Kong; Janet Hsiao: University of Hong Kong

T23.2 Studying the Effect of Oral Transmission on Melodic Structure using Online Iterated Singing Experiments

Presenting Author: Manuel Anglada-Tort
Manuel Anglada-Tort: Max Planck Institute for Empirical Aesthetics; Peter M. C. Harrison: University of Cambridge; Nori Jacoby: Max Planck Institute for Empirical Aesthetics

T23.3 Cultural Invariance in Musical Communication

Presenting Author: Lidya Yurdum
Lidya Yurdum: University of Amsterdam; Manvir Singh: Harvard University; Luke Glawacki: Boston University; Tom Vardy: University of Auckland; Quentin Atkinson: University of Auckland; Courtney B Hilton: Haskins Laboratories; Disa Sauter: University of Ams

T23.4 Culture and Commutativity

Presenting Author: Isabelle Boni
Isabelle Boni: University of California Berkeley; Steven Piantadosi: UC Berkeley

T23.5 Sticks, leaves, buckets, and bowls: Distributional patterns of children’s at-home object handling in two subsistence societies

Presenting Author: Kennedy Casey
Kennedy Casey: University of Chicago; Mary Elliott: University of Texas at Dallas; Elizabeth Mickiewicz: University of Chicago; Anapaual Silva Mandujano: University of Chicago; Kimberly Shorter: University of Chicago; Mara Duquette: University of Chicago;

T24.1 The Wisdom of the Crowd and Framing Effects in Spatial Knowledge

Presenting Author: Lauren E Montgomery
Lauren E Montgomery: University of California, Irvine; Michael Lee: University of California Irvine

T24.2 Beyond the physical divide of Greek Cypriots and Turkish Cypriots: Social and political variables shape geographical estimates

Presenting Author: Alexia Galati
Alexia Galati: University of North Carolina at Charlotte; Miria N Plastira: University of Cyprus; Alinda Friedman: University of Alberta; Marios N Avraamides: University of Cyprus

T24.3 Neighborhoods, Directions and Distances: Segmentation Effects in a Real-World City

Presenting Author: Merve Tansan
Merve Tansan: Temple University; Thomas Shipley: Temple University; Nora Newcombe: Temple U

T24.4 Large-Scale vs Small-Scale Spatial Abilities: Development of a Broad Spatial Activities Questionnaire

Presenting Author: Mitchell Eric Munns
Mitchell Eric Munns: University of California, Santa Barbara; Bailey Tranquada-Torres: University of California, Irvine; Elizabeth Christil: UC Irvine; Mary Hegarty: University of California, Santa Barbara

T24.5 Prior Spatial Knowledge Differentially Impacts Learning in Children and Young Adults

Presenting Author: Mx. Merron Woodbury
Merron Woodbury: University of Toronto; Chunan Duan: University of Toronto; Eryk Bro: University of Toronto; Ren Patricia Seeger: University of Toronto; Margaret L Schlichting: University of Toronto

T25.1 Getting to the root of linguistic alignment: Testing the predictions of Interactive Alignment across developmental and biological variation in language skill

Presenting Author: Ruthe Foushee
Ruthe Foushee: University of Chicago; Dan Byrne: University of Chicago; Marisa Casillas: University of Chicago; Susan Goldin-Meadow: University of Chicago

T25.2 Computational Complexity of Segmentation

Presenting Author: Federico Adolfi
Federico Adolfi: Ernst-Strüngmann Institute for Neuroscience in Cooperation with Max-Planck Society; Todd Wareham: Memorial University of Newfoundland; Iris van Rooij: Radboud University

T25.3 Auditory and visual category learning in children

Presenting Author: Casey L Roark
Casey L Roark: University of Pittsburgh; Erica Lescht: University of Pittsburgh; Amanda Hampton Wray: University of Pittsburgh; Bharath Chandrasekaran: University of Pittsburgh

T25.4 Uncovering children’s concepts and conceptual change

Presenting Author: Pablo Leon Villagra
Pablo Leon Villagra: Brown University; Isaac Ehrlich: University of Toronto; Chris Lucas: University of Edinburgh; Daphna Buchsbaum: Brown University
T25.5 An experimental study of semantic extension in a novel communication system
Presenting Author: Kenny Smith
Josephine Bowerman: University of Edinburgh; Kenny Smith: University of Edinburgh

T26.1 Decision-Making with Naturalistic Options
Presenting Author: Can Demircan
Can Demircan: Max Planck Institute for Biological Cybernetics; Leonardo Pettini: Max Planck Institute for Human Cognitive and Brain Sciences, Charité - Universitätsmedizin Berlin; Tankred Saanum: Max Planck Institute for Biological Cybernetics; Marcel Bi

T26.2 A joint analysis of dropout and learning functions in human decision-making with massive online data
Presenting Author: Ionatan Kuperwajs
Ionatan Kuperwajs: New York University; Wei Ji Ma: New York University

T26.3 I Know Your Next Move: Action Decisions in Dyadic Pick and Place Tasks
Presenting Author: Miss Diana Babajanyan
Diana Babajanyan: Macquarie University; Gaurav Patil: Macquarie University; Maurice Lamb: University of Skövde; Rachel W. Kallen: Macquarie University; Michael J Richardson: Macquarie University

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Presenting Author: Maureen Gill
Maureen Gill: Yale University; Frank Keil: Yale University

T26.5 Understanding intuitive theories of climate change
Presenting Author: Brittany Schotsch
Brittany Schotsch: Arizona State University; Derek Powell: Arizona State University

T27.1 Towards Situated Communication in Multi-Step Interactions: Time is a Key Pressure in Communication Emergence
Presenting Author: Dr Elnaz Davoodi
Aleksandra Kalinowska: DeepMind; Elnaz Davoodi: DeepMind; Kory W. Mathewson: DeepMind; Todd Murphey: Northwestern University; Patrick M. Pilarski: DeepMind Technologies, Ltd.

T27.2 Two’s company but six is a crowd: emergence of conventions in multiparty communication games
Presenting Author: Veronica Boyce
Veronica Boyce: Stanford University; Robert Hawkins: Princeton University; Noah Goodman: Stanford University; Michael C. Frank: Stanford University

T27.3 Culture, communicative need, and the efficiency of semantic categories
Presenting Author: Shan Gao
Shan Gao: Independent Researcher; Terry Regier: UC Berkeley

T27.4 Need for Structure and the Emergence of Communication
Presenting Author: MSc. Tom Kouwenhoven
Tom Kouwenhoven: Creative Intelligence Lab; Roy de Kleijn: Cognitive Psychology Unit; the prize Raaijmakers: Leiden University; Tessa Verhoef: Leiden University

T27.5 Where Questions Come From: Reusing Old Questions in New Situations
Presenting Author: Emily G Liquin
Emily G Liquin: New York University; Todd M Gureckis: New York University

T28.1 Task Unrelated Thoughts (TUT) affecting mood in ecological settings: from adaptive mind-wandering to maladaptive rumination.
Presenting Author: dr Monika Kornacka
Monika Kornacka: SWPS University of Social Sciences and Humanities; Thierry Atzeni: Université Savoie Mont Blanc; Izabela Krejtz: SWPS University of Social Sciences and Humanities; Catherine Bortolon: Univ. Grenoble Alpes, Univ. Savoie Mont Blanc; Celine

T28.2 A Computational Model of Unintentional Mind Wandering in Focused Attention Meditation
Presenting Author: Isaac Christian
Isaac Christian: Princeton University; Mayank Agrawal: Princeton University

T28.3 Limitations to Optimal Search in Naturalistic Active Learning
Presenting Author: Sudeep Bhatia
Lisheng He: Shanghai University; Russell Richie: Children’s Hospital of Philadelphia; Sudeep Bhatia: University of Pennsylvania

T28.4 Learning as Programming: Modeling Efficient Search in Human Concept Learning
Presenting Author: Joshua S Rule
Joshua S Rule: UC Berkeley; Steven Plantadosi: UC Berkeley; Josh Tenenbaum: MIT

T28.5 Fast and frugal memory search for communication
Presenting Author: Collin J. Kovacs
Collin J. Kovacs: Indiana University; Jasper M. Wilson: Washington University in St. Louis; Abhilasha A Kumar: Indiana University
T29.1 Temporal Dynamic Weighted Graph Convolution for Multi-agent Reinforcement Learning
Presenting Author: Yuntao Liu
Yuntao Liu: National University of Defense Technology; Yong Dou: National University of Defense Technology; Yuan Li: Academy of Military Science; Xinhai Xu: Academy of Military Science; Donghong Liu: Academy of Military Science

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Necdet Gurkan: Stevens Institute of Technology; Jordan W. Suchow: Stevens Institute of Technology

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Presenting Author: Jehun Hong
Jehun Hong: Seoul National University; Jain Gu: Sungkyunkwan University; Yoon Kyung Lee: Seoul National University; Sowon Hahn: Seoul National University

T29.5 ‘An ounce of loyalty’: Children’s expectations about loyalty and preference for in-group members and authority figures
Presenting Author: Megan N Norris
Megan N Norris: University of Louisville; Nicholas Noles: University of Louisville

T30.1 The development of commitment: Attention for intention
Presenting Author: Dr. Shuyi Zhai
Shuyi Zhai: Zhejiang University; Shaohe Cheng: Zhejiang University; Naomi Moskowitz: UCLA; Mowei Shen: Zhejiang University; Tao Gao: UCLA

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Jike Qin: Xi’an Jiaotong-Liverpool University; John Opfer: The Ohio State University

T30.3 Categorizing Dogs’ Real World Visual Statistics
Presenting Author: Madeline Helmer Pelgrim
Madeline Helmer Pelgrim: Brown University; Daphna Buchsbaum: Brown University

T30.4 Great Apes and Human Children Rationally Monitor their Decisions
Presenting Author: Cathal O’Madagain
Cathal O’Madagain: Université Mohammed VI Polytechnique; Katharina Helming: University of Warwick; Marco Schmidt: University of Konstanz; Eli Shupe: University of Texas at Arlington; Josep Call: St. Andrews University; Michael Tomasello: Duke University

T30.5 Habituation reflects optimal exploration over noisy perceptual samples
Presenting Author: Anjie Cao
Anjie Cao: Stanford; Gal Raz: MIT; Rebecca Saxe: MIT; Michael C. Frank: Stanford University

T31.1 Core words in semantic representation
Presenting Author: Andrew Wang
Andrew Wang: The University of Melbourne; Simon De Deyne: University of Melbourne; Meredith McGraw: University of Melbourne; Andrew Perfors: University of Melbourne

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Presenting Author: Cameron R Jones
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Presenting Author: Lucien Baumgartner
Lucien Baumgartner: University of Zurich; Pascale Willemse: University of Zurich; Kevin Reuter: University of Zurich

T31.4 What Are Men and Mothers For? The Causes and Consequences of Functional Reasoning About Social Categories
Presenting Author: Emily Foster-Hanson
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T31.5 Infinite mixture chaining: Efficient temporal construction of word meaning
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T32.1 Revisiting Agreement: Do Children and Adults Compute Subject-verb Agreement Differently?
Presenting Author: Associate Professor Nazbanou Nozari
Nazbanou Nozari: Carnegie Mellon University; Akira Omaki: University of Washington
T32.2 Regularization or lexical probability-matching? How German speakers generalize plural morphology  
Presenting Author: Kate McCurdy  
Kate McCurdy: University of Edinburgh; Sharon Goldwater: University of Edinburgh; Adam Lopez: University of Edinburgh

T32.3 Regularization of Word Order in the Verb Phrase differs from the Noun Phrase: Evidence from an online silent gesture perception paradigm  
Presenting Author: Monica L. Do  
Monica L. Do: University of Chicago; Simon Kirby: The University of Edinburgh; Susan Goldin-Meadow: University of Chicago

T32.4 Explaining patterns of fusion in morphological paradigms using the memory--surpiscopal tradeoff  
Presenting Author: Neil Rathi  
Neil Rathi: Palo Alto High School; Michael Hahn: Stanford University; Richard Futrell: UC Irvine

T32.5 Learnability and constraints on the semantics of clause-embedding predicates  
Presenting Author: Wataru Uegaki  
Mora Maldonado: CNRS; Jennifer Culbertson: University of Edinburgh; Wataru Uegaki: University of Edinburgh

T33.5 Improving a model of human planning via large-scale data and deep neural networks  
Presenting Author: Ionatan Kuperwajas  
Ionatan Kuperwajas: New York University; Heiko H Schuett: New York University; Wei Ji Ma: New York University

T33.5 Improving a model of human planning via large-scale data and deep neural networks  
Presenting Author: Ionatan Kuperwajas  
Ionatan Kuperwajas: New York University; Heiko H Schuett: New York University; Wei Ji Ma: New York University

T34.1 Ethical Explanations  
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Casey Lewry: Princeton University; Tania Lombrozo: Princeton University

T34.2 Narrating the “what” and “why” of our moral actions  
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Judy Kim: Yale University; Molly J Crockett: Yale University

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T35.3 Grounding meaning in the motor system: A p-curve analysis of the TMS and tDCE evidence  
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Pablo Solana: University of Granada; Laura Miccoli: University of Granada; Julio Santiago: University of Granada
T35.1 An Experimental-Linguistic Study of the Folk Concept of Pain: Implication, Projection, & Deniability
Presenting Author: Dr. Sabrina Coninx
Sabrina Coninx: Institute for Philosophy II; Pascale Willemen: University of Zurich; Kevin Reuter: University of Zurich

T35.2 The left hand of time: Roles of cultural and bodily experience in constructing the mental timeline
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Daniel Casasanto: Cornell University; Tom Gijssels: University of Chicago; Jason Hamm: Cornell University

T35.3 Backgroundedness Predicts Island Status of Non-finite Adjuncts in English
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Savithry Namboodiripad: University of Michigan, Ann Arbor; Nicole Cuneo: Princeton University; Mathew A. Kramer: University of Michigan; Yourdanis Sedarous: University of Michigan; Felicia Bisnath: University of Michigan, Ann Arbor; Yushi Sugimoto: University of Michigan

T35.4 No Such Thing as the Average Listener: Belief-driven versus Action-driven Strategies in Signaling
Presenting Author: Stephanie Stacy
Stephanie Stacy: University of California - Los Angeles; Yiling Yun: University of California - Los Angeles; Max Potter: University of California, Los Angeles; Naomi Moskowitz: University of California, Los Angeles; Taohua Tao: Stanford University; Stefan Pophristic: Stanford University

T35.5 The role of production expectations in visual world paradigm linking hypotheses
Presenting Author: Judith Degen
Judith Degen: Stanford University; Stefan Pophristic: Stanford University

T36.1 Declarative and imperative pointing acts by infants can be distinguished by accompanying preverbal vocalisations
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Johanna Schick: University of Zurich; Carmen Saldana: University of Zurich; Klaus Zubrubhler: University of Neuchatel; Sabine Stoll: University of Zurich

T36.2 Mapping language onto mental representations of object locations in transfer-of-possession events: A visual-world study using webcam-based eye-tracking
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Sarah Hye-yeon Lee: University of Southern California; Elsi Kaiser: University of Southern California

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T36.4 Credit assignment in hierarchical option transfer
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Joseph Outa: Stanford University; Xi Jia Zhou: Stanford University; Hyowon Gweon: Stanford University; Tobias Gerstenberg: Stanford University

T37.1 Mechanisms of Belief Persistence in the Face of Societal Disagreement
Presenting Author: Kerem Oktar
Kerem Oktar: Princeton University; Tania Lombrozo: Princeton University

T37.2 A descriptive Bayesian account of optimism in belief revision
Presenting Author: Derek Powell
Derek Powell: Arizona State University

T37.3 Does mere exposure to ideas encourage belief in them?
Presenting Author: Justin Mikell
Justin Mikell: Arizona State University; Derek Powell: Arizona State University

T37.4 Does Social Sampling Differ Between Online and Offline Contacts? A Computational Modeling Analysis
Presenting Author: Marlene Hecht
Marlene Hecht: Max Planck Institute for Human Development; Thorsten Pachur: Max Planck Institute for Human Development; Christin Schulze: Max Planck Institute for Human Development

T37.5 In the Dark: Agent-Based Modeling of Uninformed Individuals within Polarized Groups
Presenting Author: Shannon Werntz

T38.1 Diversity and homophily in social networks
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Sina Fazelpour: Northeastern University; Hannah Rubin: University of Notre Dame
T38.5 How the cognitive mechanisms underlying fast choices influence information spread and response bias amplification in groups
Presenting Author: Alan Novaes Tump
Alan Novaes Tump: Max Plack Institute Human Development; Tim Pleskac: University of Kansas; Pawel Romanczuk: Humboldt Universität zu Berlin; Ralf Kurvers: MPI for Human Development

T39.1 Language Learning from Communicative Goals and Linguistic Input
Presenting Author: Hao Zhu

T39.2 Examining Real-time Attention Dynamics in Parent-infant Picture Book Reading
Presenting Author: Dr. Chen Yu
Yayun Zhang: University of Texas - Austin; Chen Yu: University of Texas at Austin

T39.3 Communicative Feedback as a Mechanism Supporting the Production of Intelligible Speech in Early Childhood
Presenting Author: Mitja Nikolaus
Mitja Nikolaus: Aix-Marseille University; Laurent Prérot: Aix Marseille université; Abdellah Fourtassi: Aix-Marseille University

T39.4 Of mouses and mans: the role of production and feedback in language learning
Presenting Author: Megan Waller
Megan Waller: Carnegie Mellon University; Nazbanou Nozari: Carnegie Mellon University; Dan Yurovsky: Carnegie Mellon University

T39.5 Quantifying cross-situational statistics during parent-child toy play
Presenting Author: Ellis Cain
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T40.1 Retention of Exemplar-Specific Information in Learning of Real-World High-Dimensional Categories: Evidence from Modeling of Old-New Item Recognition
Presenting Author: Brian Meagher
Robert Nosofsky: Indiana University; Brian Meagher: Indiana University

T40.2 Effects of Iconicity in Recognition Memory
Presenting Author: Dr David M Sidhu
David M Sidhu: Carleton University; Gabriella Vigliocco: University College London

T40.3 Modeling the effect of chained study in transitive inference
Presenting Author: Douglas Markant
Douglas Markant: University of North Carolina at Charlotte

T40.4 Mouse-mole-vole: The inconspicuous benefit of phonology during retrieval from semantic memory
Presenting Author: Abhilasha A Kumar
Abhilasha A Kumar: Indiana University; Nancy B Lundin: Indiana University; Michael N. Jones: Indiana University

T40.5 Noun phrase representational complexity reduces maintenance cost in working memory by increasing distinctiveness between referents
Presenting Author: Chi Dat (Daniel) Lam
Chi Dat (Daniel) Lam: The University of Chicago; Ming Xiang: University of Chicago

T41.1 Transferring Novel Causal Knowledge
Presenting Author: Daniel W Czarnowski
Daniel W Czarnowski: Lehigh University; Jessecae K. Marsh: Lehigh University

T41.2 Clarifying the Causal Logic of a Classic Control of Variables Task
Presenting Author: Elizabeth Lapidow
Elizabeth Lapidow: University of California, San Diego; Caren M. Walker: University of California San Diego

T41.3 Dissecting causal asymmetries in inductive generalization
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Zeyu Xia: University of Edinburgh; Bonan Zhao: University of Edinburgh; Tadeg Quillien: University of Edinburgh; Chris Lucas: University of Edinburgh

T41.4 Measuring and Modeling Confidence in Human Causal Judgment
Presenting Author: Kevin O’Neill
Kevin O’Neill: Duke University; Paul Henne: Lake Forest College; John Pearson: Duke University; Felipe DeBrigard: Duke University

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Presenting Author: Ugurcan Vurgun
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FT3.2 Linguistic Encoding of Inferential Evidence for Events
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FT3.3 Neural mechanisms of Event Visibility in sign languages
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FT3.5 The Role of Verb-Event Structure in Children’s Lexical Ambiguity Resolution
Presenting Author: Francesco Cabiddu
Francesco Cabiddu: Cardiff University; Lewis Bott: Cardiff University; Gary Jones: Nottingham Trent University; Chiara Gambi: Cardiff University

FT3.6 Categorizing perceived causal events
Presenting Author: Nicolas Marchant
Nicolas Marchant: Universidad Adolfo Ibáñez; Bonan Zhao: University of Edinburgh; Neil R Bramley: University of Edinburgh; Diego Morales: Universidad de Talca; Sergio E. Chaigneau: Adolfo Ibáñez University

FT3.1 Interference and Case Marker Effects in Dependency Locality: Insights from Hindi
Presenting Author: Sidharth Ranjan
Sidharth Ranjan: IIT Delhi; Rajakrishnan Rajkumar: IISER Bhopal; Sumeet Agarwal: IIT Delhi

FT3.2 Do we all perceive synthetic speech in the same way? Testing congenitally blind versus sighted listeners
Presenting Author: Gerda Ana Melnik-Leroy
Gerda Ana Melnik-Leroy: Vilnius University; Gediminas Navickas: Vilnius University

FT3.3 Understanding Lightbulb Moments: Meaning-making in visual morphology from comics and emoji
Presenting Author: Lenneke Doris Lichtenberg
Lenneke Doris Lichtenberg: Tilburg University; Bien Klomberg: Tilburg University; Neil Cohn: Tilburg University

FT3.4 Time Alignment between Gaze and Speech in Image Descriptions: Exploring Theories of Linearization
Presenting Author: Ece Takmaz
Ece Takmaz: University of Amsterdam; Sandro Pezzelle: University of Amsterdam; Raquel Fernandez: University of Amsterdam

FT3.5 Enhanced Visual-Linguistic Interaction in Children within the Autism Spectrum: Evidence from the Visual-World Paradigm with Dynamic Scenes
Presenting Author: Roberto G. de Almeida
Deborah Martin: McGill University; Roberto G. de Almeida: Concordia University; Laura Pissani: Concordia University; Jessie Ann Gratton: Concordia University

FT3.6 Multimodal integration as predictions. An explanation of the McGurk effect
Presenting Author: Mr. Marco A. Flores-Coronado
Marco A. Flores-Coronado: Universidad Autónoma del Estado de Morelos; Alejandra Ciria: Universidad Nacional Autónoma de México; Bruno Lara: Universidad Autónoma del Estado de Morelos

FT4.1 Reinforcement Learning Agents for Interacting with Humans
Presenting Author: Ido Shapira
Ido Shapira: Ariel University; Amos Azaria: Ariel University

FT4.2 An Alignment of Standards Enhances Metacognitive Judgment Accuracy in Explanatory Knowledge Tasks with Internet Search
Presenting Author: Björn Mattes
Björn Mattes: Technische Universität Darmstadt; Stephanie Pieschl: Technische Universität Darmstadt

FT4.3 Including Errors and Errors Correction in a Cognitive User Model
Presenting Author: Farnaz Tehranchi
Farnaz Tehranchi: The Pennsylvania State University; Frank E. Ritter: Pennsylvanian state university

FT4.4 Supporting Information Processing and One Instant Teaming of Humans and Cyber-Technical Systems by Conceptual Chunking
Presenting Author: Dr. Anja Klichowicz
Anja Klichowicz: Chemnitz University of Technology; Dr. Tina Morgenstern: Chemnitz University of Technology; Franziska Bocklisch: Chemnitz University of Technology

FT4.5 Implementing Riemannian Geometry Based Cognitive Brain Computer Interfaces in Smart Assistive Technologies
Presenting Author: Mr Prasanna Kolar
Prasanna Kolar: UTSA; Prasanna Kolar: University of Texas At San Antonio

FT4.6 Towards Augmenting Humans in the Field: A Review of Cognitive Enhancement Methods and Applications
Presenting Author: Dr Alexandre Marois
Alexandre Marois: Thales Research and Technology Canada; Daniel Lafond: Thales Research and Technology

FT5.1 Understanding of differences in verbal and figurative representations by children 4–6 years old.
Presenting Author: Angelina Ostroverkh
Angelina Ostroverkh: Higher School of Economics; Alexey Kotov: Higher School of Economics
FT6.2 Paths to Learning in Traditional Artificial Classification Tasks
Presenting Author: Keith L Sherman
Keith L Sherman: Binghamton University; Kenneth Kurtz: Binghamton University

FT6.4 Benefits of active learning for teachers
Presenting Author: Oana Stanciu
Oana Stanciu: Central European University; Jozsef Fiser: Central European University

FT6.5 The impact of categorization rule on categorical visual search
Presenting Author: Anastasiia Liashenko
Anastasiia Liashenko: HSE University; Alexey Kotov: Higher School of Economics

FT6.6 The role of exploration in the development of category learning
Presenting Author: Qianqian Wan
Qianqian Wan: Ohio State University; Mengcun Gao: The Ohio State University; Vladimir Sloutsky: The Ohio State University

FT7.1 Causal imprinting in the pandemic: the persistence of the surface-model of Sars CoV2 transmission
Presenting Author: Dr Micah Goldwater
Micah Goldwater: University of Sydney

FT7.2 Causal versus Associative Relations: Do Humans Perceive and Represent Them Differently?
Presenting Author: Icy(Yunyi) Zhang
Icy(Yunyi) Zhang: University of California, Los Angeles; Shuhao Fu: UCLA; Alice(Zhongrui) Xu: University of California, Los Angeles; Hongjing Lu: UCLA

FT7.3 Extending the Bayesian Causal Inference of Body Ownership Modell Across Time
Presenting Author: M.Sc. Moritz Schubert
Moritz Schubert: Philipps University of Marburg; Dominik M Endres: Philipps-Universitaet

FT7.4 Cross-Cultural Sensitivity to Context when Reasoning about the Impossible
Presenting Author: Dr. Christine Coughlin
Christine Coughlin: University of Texas at Austin; Jenny Nissel: University of Texas at Austin; Kelsey A. Kelley: The University of Texas at Austin; Jennifer M Clegg: Texas State University; Hui Li: Central China Normal University; Jacqueline Woolley: University of Texas at Austin

FT7.5 Patterns of Causal Judgements Diverge from Patterns of Recall: a Test of the Outcome Density Effect
Presenting Author: Dr Anna Leshinskaya
Ili Stark Elster: UC Davis; Anna Leshinskaya: UC Davis; Charan Ranganath: University of California, Davis

FT7.6 Children’s Recognition of Shared Causal Structure in Mechanical Systems
Presenting Author: Alexandra Rett
Alexandra Rett: UC San Diego; Micah Goldwater: University of Sydney; Caren M. Walker: University of California San Diego

FT8.1 Thinking into a machine’s mind - Anticipation of an agent’s behavior in a cooperative game
Presenting Author: Fritz Becker
Fritz Becker: Leibniz-Institut für Wissensmedien; Juergen Buder: Leibniz-Institut für Wissensmedien; Markus Huff: Leibniz-Institut für Wissensmedien

FT8.2 What will they choose? Adults’ and children’s intuitive predictions of others’ numerical decisions
Presenting Author: Rahma Mbarki
Rahma Mbarki: Rutgers University-New Brunswick; Dora Kamps: University of Copenhagen; Jinjing (Jenny) Wang: Rutgers University - New Brunswick

FT8.3 Do speakers and listeners remember the speech errors or the repairs in communications?
Presenting Author: Nazbanou Nozari
Nikhil Vipul Lakhani: Carnegie Mellon University; Nazbanou Nozari: Carnegie Mellon University

FT8.4 Frequencies of Metaphorical Expressions in Asperger Syndrome and Typical Development
Presenting Author: Josué Elías Benavides Gómez
Josué Elías Benavides Gómez: Escuela Nacional de Antropología e Historia; Avril Nuche Jannette Nuche Bricaire: Universidad Nacional Autónoma de México; Felipe Cruz Pérez: Universidad Nacional Autónoma de México

FT8.5 Young children’s reasoning about the epistemic consequences of auditory noise
Presenting Author: Aaron Chuey
Aaron Chuey: Stanford University; Rondeline M. Williams: Stanford University; Michael C. Frank: Stanford University; Hyowon Gweon: Stanford University

FT8.6 Efficient and Effortful Theory of Mind Reasoning in the AToM Cognitive Model
Presenting Author: Irina Rabkina
Irina Rabkina: Occidental College; Clifton James McFate: Elemental Cognition
FT9.1 The Neural Correlates of the Effect of Belief in Free Will on Third-Party Punishment: An Optical Brain Imaging (fNIRS) Study
Presenting Author: Dr. Tuna Çakar Çakar
Tuna Çakar Çakar: MEF University

FT9.2 One strike and you’re a lout: Perceptions of moral character are fugacious, not tenacious
Presenting Author: Joshua Rottman
Joshua Rottman: Franklin and Marshall College; Emily Foster-Hanson: Princeton University; Sam Bellersen: Franklin & Marshall College

FT9.3 Are There Bad Dual Character Concepts?
Presenting Author: Dr. Karolina Prochownik
Karolina Prochownik: Ruhr-University Bochum; Guilherme Almeida: Yale University

FT9.4 What is moral ambiguity and when does it trigger curiosity?
Presenting Author: Jordan Wylie
Jordan Wylie: Graduate Center, CUNY; Ana Gantman: Brooklyn College

FT9.5 The Quantified Moral Self
Presenting Author: Dr Zoe A Purcell
Zoe A Purcell: University of Toulouse; Iyad Rahwan: Max Planck Institute for Human Development; JF Bonnefon: Toulouse School of Economics

FT9.6 Perceived Agency Changes Performance and Moral Trust in Robots
Presenting Author: Chelsea Frazier-Young
Chelsea Frazier-Young: Active-Duty Military; Malcolm McCurry: Arfield; Kevin Zish: Global Systems Technologies; Greg Trafton: Naval Research Laboratory

FT10.1 Clarifying Metacognition System 1 & 2 with the Common Model
Presenting Author: Brendan Conway-Smith
Brendan Conway-Smith: Carleton University; Robert L West: Carleton University

FT10.2 Modeling the Effect of Learning During Retrieval on Collaborative Inhibition
Presenting Author: Willa Mannering
Willa Mannering: Indiana University; Suparna Rajaram Rajaram: Stony Brook University; Richard Shiffrin: Indiana University; Michael N. Jones: Indiana University

FT10.3 Metacognition and marking-for-self in theatrical dance as a multimodal pattern of semiotic activity
Presenting Author: Henrique Tavares Dias Perissinotto
Henrique Tavares Dias Perissinotto: Federal University of Juiz de Fora; Joao Queiroz: Institute of Arts, Federal University of Juiz de Fora

FT10.4 Feedback-related and Task-dependent Post-error Slowing
Presenting Author: Miss Yiqiong Yang
Yiqiong Yang: University of Cambridge

FT10.5 Individual Differences in a Pragmatic Reference Game
Presenting Author: Alexandra Mayn
Alexandra Mayn: Saarland University; Vera Demberg: Saarland University

FT10.6 Vacant

FT11.1 Learning from Failure with Self vs Task Focused Feedback
Presenting Author: Sebahat Gok
Sebahat Gok: Indiana University; Emily R. Fyfe: Indiana University

FT11.2 The Counterintuitive Interpretations Learned from Putatively Intuitive Simulations
Presenting Author: Sebahat Gok
Sebahat Gok: Indiana University; Robert Goldstone: Indiana University

FT11.3 The Impact of Prior Knowledge in Narrative-Based Learning on Understanding Biological Concepts in Higher Education
Presenting Author: Samuel Tobler
Samuel Tobler: ETH Zurich; Tanmay Sinha: ETH Zurich; Katja Koehler: ETH Zurich; Ernst Hafen: ETH Zurich; Manu Kapur: ETH Zurich

FT11.4 Assessment of Mathematical Competence by the Transcriptions of Formulas: An Exploration of Spatial and Temporal Metrics
Presenting Author: Peter Cheng
Peter Cheng: University of Sussex; Grecia Garcia Garcia: University of Sussex; Gabriele Cayton-Hodges: Educational Testing Service

FT11.5 Mapping the Structure of Metaphorical Concepts of Undergraduate Research Mentoring
Presenting Author: Kevin J. Holmes
Clarissa Madar: Reed College; Nan Elpers: Reed College; Stephen Flusberg: Purchase College, SUNY; Kevin J. Holmes: Reed College
FT11.6 Quantifying the relationships between linguistic experience, general cognitive skills and linguistic processing skills
Presenting Author: Florian Hintz
Florian Hintz: Max Planck Institute for Psycholinguistics; Cesko Voeten: Frychte Akademie; James McQueen: Radboud University; Antje Meyer: Max Planck Institute for Psycholinguistics

FT12.1 Making the Question Under Discussion explicit shifts counterfactual interpretation
Presenting Author: Ebru Evcen
Ebru Evcen: University of California San Diego; Eva Wittenberg: Central European University

FT12.2 The efficiency of dropping vowels in Romanised Arabic script
Presenting Author: Zeinab Kachakeche
Zeinab Kachakeche: University of California Irvine; Gregory Scontras: UC Irvine; Richard Futrell: UC Irvine

FT12.3 Intractability of Bayesian belief-updating during communication
Presenting Author: Laura D. van de Braak
Laura D. van de Braak: Radboud University, Donders Institute for Brain, Cognition, and Behaviour; Ronald de Haan: University of Amsterdam; Iris van Rooij: Radboud University; Mark Blokpoel: Donders Institute for Brain, Cognition and Behaviour

FT12.4 Communicative need modulates lexical precision across semantic domains: A domain-level account of efficient communication
Presenting Author: Laurestine Bradford
Laurestine Bradford: McGill University; Guillaume Thomas: University of Toronto; Yang Xu: University of Toronto

FT12.5 Quantifying the Emergence of Symbolic Communication
Presenting Author: Emily Cheng
Emily Cheng: MIT; Yen-Ling Kuo: MIT; Josefina Correa: MIT; Boris Katz: MIT; Ignacio Cases: MIT; Andrei Barbu: MIT

FT12.6 Real-time processing of COVID-19 health messages: Talking about you, us and people
Presenting Author: Elsi Kaiser
Elsi Kaiser: University of Southern California

FT13.1 Landmark Modality in Wayfinding: Does it Make a Difference?
Presenting Author: Elisa Maria Katharina Arena
Elisa Maria Katharina Arena: Justus Liebig University Giessen; Kai Hamburger: Justus Liebig University Giessen

FT13.2 Human Information Seeking in Architectural Spaces Simulated in Virtual Reality
Presenting Author: Nikolaos Vlavianos
Nikolaos Vlavianos: Massachusetts Institute of Technology; Takehiko Nagakura: Massachusetts Institute of Technology; Marta Kryven: Massachusetts Institute of Technology

FT13.3 Convergent and Discriminant Validity of the Direction and Orientation Strategy Questionnaire
Presenting Author: Dr. Heather Burte
Soňa Quintero: Texas A&M University; Heather Burte: Texas A&M University

FT13.4 What’s the relationship between mechanical reasoning and different types of spatial skills?
Presenting Author: Dr. Felipe Munoz-Rubke
Felipe Munoz-Rubke: Universidad Austral de Chile; Zachary Hawes: University of Toronto; Ramon Daniel D. Castillo: University of Talca; Karla Melipillán: Universidad Austral de Chile; Valentina Zamorano: Universidad Austral de Chile; Javier Soto: Universidad Austral de Chile

FT13.5 Vacant

FT13.6 Motor-related word association differences in Parkinson Disease for verb processing
Presenting Author: Mr. Marco A. Flores-Coronado
Alma E. Ríos-Ponce: School of Psychology, UNAM; Marco A. Flores-Coronado: Universidad Autónoma del Estado de Morelos; Gabriel Marín-García: School of Psychology, UNAM; Natalia Arias-Trejo: Universidad Nacional Autónoma de Mexico, UNAM

FT14.1 Conceptual Gender vs. Grammatical Gender: Exploring Implicit and Explicit Object Categorization in Turkish and French Speakers
Presenting Author: Elif Tutku Tunali
Elif Tutku Tunali: Sabanci University; Morgane Jourdain: University of Zurich; Junko Kanero: Sabanci University

FT14.2 Reverse-engineering the language of thought: a new approach
Presenting Author: Milica Denić
Milica Denić: University of Amsterdam; Jakub Szymanik: University of Amsterdam

FT14.3 Hysteresis in training task of Approximate Number System: transfer effect to symbolic math abilities
Presenting Author: Nadir Díaz-Simón
Nadir Díaz-Simón: Universidad de la República
FT14.4 Rule-Based Categorization: Measuring the Cognitive Costs of Intentional Rule Updating  
Presenting Author: Marco Ragni  
Daniel Brand: Chemnitz University of Technology; Hannah Dames: Albert-Ludwigs-Universität Freiburg; Leonardo Puricelli: Technische Universität Chemnitz; Marco Ragni: TU Chemnitz

FT14.5 Category Exceptions Change Category Boundaries  
Presenting Author: Dr Olivera Savic  
Olivera Savic: The Ohio State University; Vladimir Sloutsky: The Ohio State University

FT14.6 Categorising images by generating natural language rules  
Presenting Author: Wai Keen Vong  
Wai Keen Vong: New York University; Brenden Lake: NYU

FT15.2 Exploring cognitive pathways to sustainability – development and validation of personas for sustainable behavior  
Presenting Author: Laura M. Prislan  
Laura M. Prislan: University of Stuttgart; Maria Wirzberger: University of Stuttgart

FT15.3 Modeling Reward Learning Under Placebo Expectancies: A Q-Learning Approach  
Presenting Author: Nick Augustat  
Nick Augustat: University of Marburg; Li-Ching Chuang: Philipps-University of Marburg; Christian Panitz: University of Marburg and University of Leipzig; Christopher Stolz: Leibniz Institute for Neurobiology; Erik M. Mueller: University of Marburg; Dominik M Endres: Philipps-Universitaet

FT15.4 Test-retest reliability of task-based measures of voluntary persistence  
Presenting Author: Yixin Chen  
Yixin Chen: Boston University; Daniel Fulford: Boston University; Joseph McGuire: Boston University

FT15.6 A meta-inference model of confidence  
Presenting Author: Hsin-Hung Li  
Hsin-Hung Li: New York University; Wei Ji Ma: New York University

FT16.1 The Association between Humor Comprehension and Subjective Social Well-being in Non-native English Speakers  
Presenting Author: Haoyin Xu  
Haoyin Xu: University of California, San Diego; Masaki Nakanishi: University of California, San Diego; Seana Coulson: UC San Diego

FT16.2 Non-native English Speakers Are Not Disadvantageous in Humor Appreciation, but Detection, Compared with Native Speakers  
Presenting Author: Haoyin Xu  
Masaki Nakanishi: University of California San Diego; Haoyin Xu: University of California, San Diego; Seana Coulson: UC San Diego

FT16.3 Of a Different Persuasion: Perception of Minority Status and Persuasive Impact  
Presenting Author: Logan Fields  
Logan Fields: University of South Florida; Zaid Marji: University of South Florida; John Licato: University of South Florida

FT16.4 Children’s accent-based preferences and stereotypes in media contexts  
Presenting Author: Kathryn Harper  
Kathryn Harper: Ryerson University; Lili Ma: Ryerson University

FT16.5 Semantic priming across speakers and listeners of Latino varieties of English  
Presenting Author: Alexia Hernandez  
Alexia Hernandez: Stanford University; Meghan Sumner: Stanford University

FT16.6 Joint Content-Context Analysis of Scientific Publications: Identifying Opportunities for Collaboration in Cognitive Science  
Presenting Author: Lu Cheng  
Lu Cheng: University of California, Los Angeles; Harlin Lee: UCLA; Girish Ganesan: Rutgers University; William L He: Northwestern University; Daniel Silverston: Brown University; Jacob G. Foster: University of California, Los Angeles

FT17.1 Multilingual and Bi-dialectal Irony Processing  
Presenting Author: Kyriakos Antoniou  
Kyriakos Antoniou: Cyprus University of Technology

FT17.2 Can you tell them apart? Using machine learning to classify bilinguals’ and multilinguals’ cognitive and linguistic performance  
Presenting Author: Dr. M. Paula M. P. Roncaglia-Denissen  
M. Paula M. P. Roncaglia-Denissen: Tilburg University; Diana Chernichenko: Tilburg University; Eriko Fukuda: Tilburg University; Peter H. G. Hendrix: Tilburg University

FT17.3 Task-Based and Individual Differences Influence the Effect of Gesture Observation on Novel L2 Speech Sound Learning  
Presenting Author: Dr. Laura M. Morett  
Laura M. Morett: University of Alabama
**FT17.4** Data-driven Crosslinguistic Syntactic Transfer in Second Language Learning  
**Presenting Author:** Zoey Liu  
Zoey Liu: Boston College; Tiwalayo Eisape: Massachusetts Institute of Technology; Emily Prud'hommeaux: Boston College; Joshua K Hartshorne: Boston College

**FT17.5** Deep in the Trenches: First language performance predicts primacy in statistical learning of two structures  
**Presenting Author:** Jino Chough  
Jino Chough: Swarthmore College; Benjamin D. Zinszer: Swarthmore College

**FT17.6** Language Experience Modulates L2-Related Representational Change when Learning Novel Categories  
**Presenting Author:** John D. Patterson  
John D. Patterson: The Pennsylvania State University; Nicci C Schoedel: Pennsylvania State University; Elisabeth A. Karuza: The Pennsylvania State University

**FT18.1** Toward Automated Detection of Phase Changes in Team Collaboration  
**Presenting Author:** Julie Harrison  
Julie Harrison: Georgia Institute of Technology; Sona Anita Jain: Georgia Institute of Technology; Terri Dunbar: Georgia Institute of Technology; Jamie Gorman: Georgia Institute of Technology; Sashank Varma: Georgia Tech

**FT18.2** The Costs and Composition of Discontinuity in Visual Narratives  
**Presenting Author:** Bien Klomberg  
Bien Klomberg: Tilburg University; Neil Cohn: Tilburg University

**FT18.3** Altercentric interference vs. bias in 7.5 month-old infants: a pupillometry study  
**Presenting Author:** Velisar Manea  
Velisar Manea: University of Copenhagen; Dimitrios Askitis: University of Copenhagen; Emanuela Yeung: University of Copenhagen; Victoria Southgate: Copenhagen University

**FT18.4** Infant Action Prediction of Everyday Food Preparation  
**Presenting Author:** Chen Yu  
Claire Monroy: Keele University; Sara E Schroer: UT Austin; Mary Hayhoe: University of Texas; Chen Yu: University of Texas at Austin

**FT18.5** Learning variations in children’s multimodal cues of uncertainty during a math-related numerical discrimination task  
**Presenting Author:** Theresa Eunhye Choi  
Theresa Eunhye Choi: University of Pittsburgh; Rahma Mbarki: Rutgers University-New Brunswick; Grace Grmek: Rutgers University; Kimele Persaud: Rutgers University - Newark; Jinjing (Jenny) Wang: Rutgers University - New Brunswick; Malihe Alikhani: UPitt

**FT19.1** Learning Unnatural Language Quantifiers  
**Presenting Author:** Semih Can Aktepe  
Semih Can Aktepe: Middle East Technical University; Barbaros Yet: Middle East Technical University

**FT19.2** Look For Adjectives In the Face: How Facial Expressions Contribute To Meaning In Signed Languages  
**Presenting Author:** Carla Viegas  
Carla Viegas: Language Technologies Institute; Lorna C Quandt: Gallaudet University; Malihe Alikhani: UPitt

**FT19.3** Gender bias in grammatical gender systems across languages  
**Presenting Author:** Sonali Dey  
Sonali Dey: University of Toronto; Yang Xu: University of Toronto

**FT19.4** Measuring Meaning: Alignment and Misalignment Across Indices of Verb Semantics  
**Presenting Author:** Lilia Rissman  
Lilia Rissman: University of Wisconsin - Madison

**FT19.6** Schematic Diagrams and Semantic Processing of English Prepositional Polysemy  
**Presenting Author:** Menghan Wang  
Menghan Wang: The University of Melbourne; Helen Zhao: University of Melbourne

**FT20.1** Can Social Relations Influence Cooperation in Prisoner’s Dilemma?  
**Presenting Author:** PhD Evgeniya Hristova  
Maurice Grinberg: New Bulgarian University; Evgeniya Hristova: New Bulgarian University; Desislava Chakarova: New Bulgarian University

**FT20.2** Improving the Perception of Fairness in Shapley-Based Allocations  
**Presenting Author:** Meir Nizri  
Meir Nizri: Ariel University; Amos Azaria: Ariel University; Noam Hazon: Ariel University
**FT20.3 Does linguistic alignment promote cooperation?**

Presenting Author: Theresa Matzinger

Theresa Matzinger: University of Vienna; Marek Placiński: Nicolaus Copernicus University in Toruń; Adam Gutowski: Nicolaus Copernicus University in Toruń; Mariusz Lewandowski: Nicolaus Copernicus University; Przemysław Zywiczynski: Nicolaus Copernicus University; Slawomir Wacewicz: Nicolaus Copernicus University

**FT20.4 Social Dynamics of Division-of-Labor Tasks**

Presenting Author: Megan Chiovaro

Megan Chiovaro: University of Connecticut; Alexandra Paxton: University of Connecticut

**FT20.5 How Virtual Work Environments Convey Perceptual Cues to Foster Shared Intentionality During Covid-19 for Blind and Partially Sighted Employees**

Presenting Author: Erin Lee

Erin Lee: OCAD University; Canadian National Institute for the Blind: Canadian National Institute for the Blind; Peter Coppin: OCAD University

**FT20.6 Proto-trust and trust attribution: a theory of intuitive, affective forms of trust and the means by which trust decisions are made**

Presenting Author: Miss Lauren E Fell

Lauren E Fell: Queensland University of Technology; Peter Bruza: Queensland University of Technology

**FT21.1 A task-general model of human randomization**

Presenting Author: Sami R Yousif

Sami R Yousif: Yale University; Samuel David McDougle: Yale University; Robb B Rutledge: Yale University

**FT21.2 The Discrete, the Continuous, and the Approximate Number System**

Presenting Author: Dr Jean-Charles Pelland

Jean-Charles Pelland: University of Bergen

**FT21.3 Left to the Reader: Abstracting Solutions in Mathematical Reasoning**

Presenting Author: Gabriel Poesia Reis e Silva

Gabriel Poesia Reis e Silva: Stanford University; Noah Goodman: Stanford University

**FT21.4 Neighborhood effects for composite (i.e., non-prime) numbers**

Presenting Author: Jeffrey K. Bye

Jeffrey K. Bye: University of Minnesota; Rina Harsch: University of Minnesota; Sashank Varma: Georgia Tech

**FT21.5 Why do People fit to Benford’s Law? – A Test of the Recognition Hypothesis**

Presenting Author: Bruce Burns

Duyi Chi: The University of Sydney; Bruce Burns: The University of Sydney

**FT21.6 How can visual perception of numbers affect computational fluency?**

Presenting Author: Maiko Takahashi

Maiko Takahashi: the University of Tokyo; Souko Inoue: MIT International School

**FT22.1 Vacant**
**FT23.2 Interpreting Logical Metonymy through Dense Paraphrasing**

Presenting Author: Bingyang Ye

Bingyang Ye: Brandeis University; Jixuan Tu: Brandeis University; Elisabetta Jezek: University of Pavia; James Pustejovsky: Brandeis University

**FT23.3 Limits and risks of GPT-3 applications**

Presenting Author: Eric Schützgebel

Anna Strasser: Ludwig-Maximilians-Universität; Matthew Crosby: DeepMind; Eric Schützgebel: University of California, Riverside

**FT23.4 Attention Is Not Enough**

Presenting Author: Dr. Joshua L Phillips

Joshua Miller: University of Tennessee, Knoxville; Shawheen Naderi: California State University, Sacramento; Channing Mullanix: Middle Tennessee State University; Joshua L Phillips: Middle Tennessee State University

**FT23.5 Human-like property induction is a challenge for large language models**

Presenting Author: Simon Jerome Han

Simon Jerome Han: University of Melbourne; Keith James Ransom: University of Melbourne; Andrew Perfors: University of Melbourne; Charles Kemp: University of Melbourne

**FT23.6 Analyzing Reliability of Interpretable Parameters in Deep Learning Language Models**

Presenting Author: Yo Ehara

Yo Ehara: Tokyo Gakugei University

**FT24.1 Cognitive diversity promotes collective creativity: an agent-based simulation**

Presenting Author: Roberta Rocca

Roberta Rocca: University of Texas at Austin; Kristian Tylen: Aarhus University

**FT24.2 An investigation of the cognitive and neural correlates of semantic memory search related to creative ability**

Presenting Author: Ms Marcela Ovando Tellez

Marcela Ovando Tellez: Paris Brain Institute, Sorbonne university; Mathias Benedek: University of Graz; Yoed Kenett: Technion - Israel Institute of Technology; Thomas Hills: University of Warwick; Sarah Bouanane: Paris Brain Institute, Sorbonne university; Matthieu Bernard: Paris Brain Institute, Sorbonne university; Joan Belo: Paris Brain Institute, Sorbonne university; Théophile Bieth: Paris Brain Institute, Sorbonne university; Emmanuelle Volle: Paris Brain Institute, Sorbonne university

**FT24.3 Using a Language Transformer Model to Capture Creativity in Improvised Narratives**

Presenting Author: Qingzhi Ruby Zeng

Qingzhi Ruby Zeng: University of Rochester; Derek Lilienthal: California State University, Monterey Bay; Marius Cătălin Iordan: Princeton University; Elise A. Piazza: University of Rochester

**FT24.4 “A fork is a food stabber”: Linguistic creativity in English L1 and L2 speakers**

Presenting Author: Stephen Skalicky

Stephen Skalicky: Victoria University of Wellington; Nancy Bell: Washington State University; Mihai Dascalu: University Politehnica of Bucharest; Scott Crossley: Georgia State University

**FT24.5 Dynamics of Interaction with the Environment in Creativity: Embodied Imagination Framework**

Presenting Author: Daichi Shimizu

Daichi Shimizu: Graduate School of Human Development and Environment; Takeshi Okada: The University of Tokyo

**FT24.6 Play as intuitive modelling for fostering creativity in interactions**

Presenting Author: Taijun Cheng

Taijun Cheng: Japan Advanced Institute of Science and Technology; Guanhong Li: Japan Advanced Institute of Science and Technology; Takashi Hashimoto: Japan Advanced Institute of Science and Technology

**FT25.1 Effect of self-experience on empathic helping to virtual agents**

Presenting Author: Junya Morita

Junya Morita: Shizuoka University; Yuna Kano: Shizuoka University

**FT25.2 People learn other’s preferences on a latent feature space using emotion expressions as labels**

Presenting Author: Junya Yamada

Junya Yamada: Gifu University; Souichiro Yoshikawa: Gifu University; Hirokazu Kumazaki: Nagasaki University; Hideki Kozima: Tohoku University; Kazunori Terada: Gifu University

**FT25.3 Intentional commitment through an internalized theory of mind: Acting in the eyes of an imagined observer**

Presenting Author: Shaozhe Cheng

Shaozhe Cheng: Zhejiang University; Minglu Zhao: University of California - Los Angeles; Jingyin Zhu: Zhejiang University; Jifan Zhou: Zhejiang University; Mowei Shen: Zhejiang University; Tao Gao: UCLA

**FT25.4 Explicit and Implicit Coordination of Joint Action**

Presenting Author: Chen Zheng

Chen Zheng: Teachers College, Columbia University; Barbara Tversky: Columbia Teachers College
**FT25.5 What Is the point? a Theory of Mind Model of Relevance**  
*Presenting Author: Kaiwen Jiang*

Kaiwen Jiang: University of California, Los Angeles; Stephanie Stacy: University of California - Los Angeles; Annya L. Dahmani: University of California - Los Angeles; Boxuan Jiang: University of California, Los Angeles; Federico Rossano: University of California, San Diego; Yixin Zhu: UCLA; Tao Gao: UCLA

**FT26.1 Do Judgments of Learning Improve Inductive Learning?**  
*Presenting Author: Hyorim Ha*

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

**FT26.2 Does delayed interim testing enhance subsequent learning?**  
*Presenting Author: Yewon Kang*

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

**FT26.3 One-second Boosting: A Simple and Cost-effective Intervention that Promotes the Optimal Allocation of Cognitive Resources**  
*Presenting Author: Rina Kagawa*

Rina Kagawa: University of Tsukuba; Masaru Shirasuna: Otemon Gakuin University; Atsushi Ikeda: University of Tsukuba; Masaru Sanuki: University of Tsukuba; Hidetomo Honda: Otemon Gakuin University; Hirokazu Nosato: National Institute of Advanced Industrial Science and Technology (AIST)

**FT26.4 Transitive inference in non-humans? Not so fast!**  
*Presenting Author: Steven Phillips*

Steven Phillips: National Institute of Advanced Industrial Science and Technology

**FT26.5 Modeling aberrant volatility estimates in Autism Spectrum Disorder**  
*Presenting Author: M.Sc. Hauke Niehaus*

Hauke Niehaus: University Marburg; Sanna Stroth: Philipps University Marburg; Inge Kamp-Becker: Philipps University Marburg; Dominik M Endres: Philipps-Universitaet

**FT26.6 Restructuring problem-related semantic associations promotes solving success**  
*Presenting Author: Théophile Bieth*

Théophile Bieth: Paris Brain Institute, Sorbonne university; Yoed Kenett: Technion - Israel Institute of Technology; Marcela Ovando Tellez: Paris Brain Institute, Sorbonne university; Celia Lacaux: Paris Brain Institute, Sorbonne university; Delphine Oudiette: Paris Brain Institute, Sorbonne university; Emmanuelle Volle: Paris Brain Institute, Sorbonne university

**FT27.1 Events and Objects Are Similar Cognitive Entities**  
*Presenting Author: Yue Ji*

Yue Ji: Beijing Institute of Technology; Anna Papafragou: University of Pennsylvania

**FT27.2 Viewers Spontaneously Represent Event Temporal Structure**  
*Presenting Author: Yue Ji*

Yue Ji: Beijing Institute of Technology; Anna Papafragou: University of Pennsylvania

**FT27.3 Context-based Prediction Error Updating of Memory Representations is Modulated by Event Boundaries**  
*Presenting Author: Rujuta Pradhan*

Rujuta Pradhan: Indian Institute of Technology, Kanpur; Devpriya Kumar: Indian Institute of Technology Kanpur

**FT27.4 Motion Event Segmentation in Visual Narratives**  
*Presenting Author: Irmak Hacımusaoğlu*

Irmak Hacımusaoğlu: Tilburg University; Neil Cohn: Tilburg University

**FT27.5 The Source-Goal Asymmetry in Motion Events: Sources Are Robustly Encoded in Memory but Overlooked at Test**  
*Presenting Author: Yiran Chen*

Yiran Chen: University of Pennsylvania; John Trueswell: University of Pennsylvania; Anna Papafragou: University of Pennsylvania

**FT27.6 Hierarchical task knowledge constrains and simplifies action understanding**  
*Presenting Author: Isaac Davis*

Isaac Davis: Yale University; Julian Jara-Ettinger: Yale University

**FT28.1 How ‘Good-Enough’ is L2 Sentence Comprehension? Evidence from Suffixal Passive Construction in Korean**  
*Presenting Author: Dr. Gyu-Ho Shin*

Chanyoung Lee: Yonsei University; Gyu-Ho Shin: Palacky University Olomouc; Boo Kyung Jung: University of Pittsburgh

**FT28.2 Perception of a phoneme contrast in Singaporean English-Mandarin bilingual adults: A preregistered study of individual differences**  
*Presenting Author: Ms Hannah L. Goh*

Hannah L. Goh: Nanyang Technological University; Suzy J. Styles: Nanyang Technological University
FT28.3 Chinese Dialect Proficiency and Executive Function: Evidence from the Simon Task
Presenting Author: Yu Zhou
Adam John Privitera: Wenzhou-Kean University; Yu Zhou: Wenzhou-Kean University

FT28.4 Bilingualism protects social cognition in aging: Effects of early bilingualism on older adult theory of mind
Presenting Author: Xiaoqian Li
Xiaoqian Li: Singapore University of Technology and Design; W. Quin Yow: Singapore University of Technology and Design

FT28.5 UK bilingual toddlers show a lag in vocabulary size relative to monolinguals in both comprehension and production
Presenting Author: Serene Siow

FT28.6 Functional Connectivity Differences between Trilinguals and Bilinguals: The Role of Orthographic Depth
Presenting Author: Ye Shen
Ye Shen: University of Delaware; Stephanie Del Tufo: University of Delaware

FT29.1 Studying the long-term dynamics of reciprocity based on welfare tradeoff ratios
Presenting Author: Wenhao Qi
Wenhao Qi: University of California, San Diego; Ed Vul: University of California, San Diego

FT29.2 Perspective taking and reference frames for spatial and social cognition
Presenting Author: Sungjoon Park
Sungjoon Park: Texas A&M University; Brandon K Watanabe: Texas A&M University; Heather Burte: Texas A&M University

FT29.3 Children, but not adults, prioritize relational over dispositional interpretations of dominance interactions
Presenting Author: Barbara Pomiechowska
Barbara Pomiechowska: Central European University; Denis Tatone: Central European University; Dorottya Meszegeto: Central European University; Barbu Revencu: Central European University; Gergely Csibra: Central European University

FT29.4 Do humans recalibrate the confidence of advisers or take their confidence at face value?
Presenting Author: Oana Stanciu
Oana Stanciu: Central European University; Jozsef Fiser: Central European University

FT29.5 Understanding and Modeling Coordination in the Minimum Effort Game
Presenting Author: Alexander Hough
Alexander Hough: Air Force Research Lab; Ion Juvina: Wright State University

FT29.6 Transcultural mindreading: Building a new database of Facial Expressions with actors of diverse ethnicities to assess social cognition.
Presenting Author: Dr. Fernanda Pérez-Gay Juárez
Fernanda Pérez-Gay Juárez: McGill University; Olivia Leone: McGill University; Elizaveta Solomonova: McGill University; Ian Gold: McGill University

FT30.1 A Study on Relative Performance of an Reinforcement Learning Agent and Human in a Psychometric Assessment Game
Presenting Author: Anirban Lahiri

FT30.2 Achieving Consensus to Learn an Efficient and Robust Communication via Reinforcement Learning
Presenting Author: Wei Qing
Wei Qing: Beijing University of Posts and Telecommunications; Zhaofeng He: Beijing University of Posts and Telecommunications; Junge Zhang: Institute of Automation; Chinese Academy of Sciences; Jian Li: Beijing University of Posts and Telecommunications; Luzhan Yuan: Beijing University of Posts and Telecommunications; Wei Wang: Beijing University of Posts and Telecommunications

FT30.3 Criticality-Based Advice in Reinforcement Learning
Presenting Author: Mr. Yitzhak Spielberg
Yitzhak Spielberg: Ariel University; Amos Azaria: Ariel University

FT30.4 Socially emotional intelligent agents based on BICA and deep learning
Presenting Author: Alexei V Samsonovich
Alexei V Samsonovich: National Research Nuclear University “MEPhI”

FT30.5 How Feedback in Interactive Activation Improves Perception
Presenting Author: James Magnuson
James Magnuson: University of Connecticut; Samantha Grubb: University of Connecticut; Anne Marie Crinin: University of Connecticut; Sahil Luthra: Carnegie Mellon University; Phoebe Gaston: University of Connecticut
FT30.6 **Comparing Machine and Human Learning in a Planning Task of Intermediate Complexity**  
Presenting Author: Zheyang (Sam) Zheng  
Zheyang (Sam) Zheng: New York University; Xinlei (Daisy) Lin: NYU; Jake Topping: University of Oxford; Wei Ji Ma: New York University

FT31.1 **Our construal and bodily actions are impacted by changes in language and virtual viewpoints**  
Presenting Author: Chie Fukada  
Chie Fukada: Kyoto Institute of Technology; Yukiko Nishizaki: Kyoto Institute of Technology; Kaishi Sasaki: Kyoto Institute of Technology; Noriyuki Kida: Kyoto Institute of Technology

FT31.2 **Where would you stand on the subway? A Bayesian framework for modeling commuter positioning choices in simulated subway coaches**  
Presenting Author: Mr Rohit Priyadarshi Sanatani  
Rohit Priyadarshi Sanatani: Massachusetts Institute of Technology

FT31.3 **When Newton beats Euclid: intuitive physics underlies sensitivity to geometry**  
Presenting Author: Dr. Sarah Placi  
Sarah Placi: Center for Mind/Brain Sciences

FT31.5 **Intercultural enactive ethics: an approach from science and technology understood as enactive practices**  
Presenting Author: Ms. Melina Gastelum Vargas  
Melina Gastelum Vargas: UNAM

FT31.6 **How heavy do you think you are? Self-weight estimation is modulated by body dissatisfaction and weight concerns.**  
Presenting Author: Verónica Ramenzi  
Sofia Abrevaya: National Scientific and Technical Research Council; Lola Kaplanski: Instituto de Neurociencia Cognitiva y Traslacional (Consejo Nacional de Investigaciones Científicas y Técnicas); Trinidad Belén Speranza: National Scientific and Technical Research Council; Verónica Ramenzi: National Scientific and Technological Council of Argentina

FT32.2 **The role of reading test strategy in reading comprehension: An eye-movement study**  
Presenting Author: Jocelyn Ching Yan Kwok  
Jocelyn Ching Yan Kwok: The University of Hong Kong; Janet Hsiao: University of Hong Kong

FT32.3 **Modeling Fixation Behavior in Reading with Character-level Neural Attention**  
Presenting Author: Michael Hahn  
Songpeng Yan: School of informatics; Michael Hahn: Stanford University; Frank Keller: University of Edinburgh

FT32.4 **Automated generation of sentence reading fluency test items**  
Presenting Author: Julia White  
Julia White: Stanford University; Amy Burkhardt: Stanford University; Jason Yeatman: Stanford University; Noah Goodman: Stanford University

FT32.5 **The Impact of Dyslexia Awareness Month on Search Volume Using GoogleTrends**  
Presenting Author: Kelly Nisbet  
Kelly Nisbet: University of Alberta; Dania Awartani: University of Alberta; Beyza Kandemir: University of Alberta; Sarah Sweneya: University of Alberta; Kate Richards: University of Alberta; Jacqueline Cummine: University of Alberta

FT32.6 **Dyslexia and Motor Skills: A Meta-Analysis**  
Presenting Author: Dr. Rita Obeid  
Rita Obeid: Case Western Reserve University; Catherine M Messina: Columbia University; Nicole Zapparrata: College of Staten Island; Christopher Donnan Gravelle: College of Staten Island, CUNY; Patricia J. Brooks: College of Staten Island and the Graduate Center, CUNY

FT32.1 **Does word boundary information facilitate Chinese sentence reading in children as beginning readers?**  
Presenting Author: Weiyan Liao  
Weiyan Liao: University of Hong Kong; Wing Chi Chong: University of Hong Kong; Janet Hsiao: University of Hong Kong

FT33.1 **How scene attributes and sound influence visual exploration of omnidirectional panoramic scenes**  
Presenting Author: Halit Ozsoy  
Halit Ozsoy: Bogazici University; Mert Cokelek: Koc University; Inci Ayhan: Bogazici University; Erkut Erdem: Hacettepe University; Aykut Erdem: Koc University

FT33.2 **Multiple-Object Search in Cluttered Scenes**  
Presenting Author: Elizabeth Brogna  
Elizabeth Brogna: New Jersey Institute of Technology; Sophie Jedrysek: New Jersey Institute of Technology; Yelda Semizer: New Jersey Institute of Technology
**FT33.3** Differential patterns of object-location binding in children and adults: Pruning the special role of location
Presenting Author: Mengcun Gao
Mengcun Gao: The Ohio State University; Maurryce Starks: The University of North Carolina at Chapel Hill; Julie Golomb: the Ohio State University; Vladimir Sloutsky: The Ohio State University

**FT33.5** Perception of liquids relies on generalizable, physics-based representations
Presenting Author: Yuting Zhang
Yuting Zhang: Yale University; Wenyen Bi: Yale University; Ilker Yildirim: Yale University

**FT33.6** Semantic Congruence Across Sensory Modalities
Presenting Author: Dr. Susan Geffen
Susan Geffen: Occidental College; Taylor Beck: Occidental College; Sheroz Faisal: Ohio State University: Newark; Chris Robinson: The Ohio State University

**FT34.1** Clickbait’s Impact on Visual Attention – An Eye Tracker Study
Presenting Author: Vivek Kaushal
Vivek Kaushal: International Institute of Information Technology, Hyderabad; Sawar Sagwal: International Institute of Information Technology - Hyderabad; Kavita Vemuri: International Institute of Information Technology - Hyderabad

**FT34.2** Performance incentives enhance alerting, orienting, and executive attentional processes
Presenting Author: Christopher Bravo
Christopher Bravo: Brown University; Harrison Ritz: Brown University

**FT34.3** Predictors of Incidental and Intentional Learning: Curiosity, Construal Level, and Musical Arousal
Presenting Author: Firuze E Mullaoglu
Firuze E Mullaoglu: Ruhr University Bochum; Nursena Armağan: Albert Ludwigs Freiburg University; Gülten Ünal: Ankara Yıldırım Beyazıt University

**FT34.4** Posttraumatic stress disorder and differences in eye gaze during a visual search task with cognitive load
Presenting Author: Heather Roy
Heather Roy: DEVCOM; Leah R Enders: DCS Corp; Thomas Rohaly: Army Research Laboratory; Bianca Dalangin: DCS Corp; Jessica Villarreal: DCS Corp; Angela Jeter: DCS Corp

**FT34.5** Effortful Control of Attention and Executive Function in Preschool Children
Presenting Author: Aditi Deodhar
Aditi Deodhar: Riley Hospital for Children at IU Health, IU School of Medicine; Bennett I. Bertenthal: Indiana University

**FT34.6** Intentional Forgetting of Habits? Combining List-Method Directed Forgetting and Item-Specific Stimulus-Response Priming
Presenting Author: Hannah Dames
Hannah Dames: University of Zurich; Andrea Kiesel: University of Freiburg; Christina U. Pfeuffer: Catholic University of Eichstätt-Ingolstadt; Marco Ragni: TU Chemnitz

**FT35.1** Aligning Language and Memory Accounts of Semantic Interference
Presenting Author: Channing E Hambrick
Channing E Hambrick: Lehigh University; Padraig O’Seaghdha: Lehigh University

**FT35.2** Does Being an Expert Matter? The Influence of Source Expertise on Recognition Memory
Presenting Author: Rina Miyata Harsch
Rina Harsch: University of Minnesota; Panayiota Kendeou: University of Minnesota

**FT35.3** Uninvited and unwanted: False memories for words predicted but not seen
Presenting Author: Katja Haeuser
Katja Haeuser: Saarland University; Jutta Kray: Saarland University

**FT35.4** Effect of stimuli congruency on gaze behavior and memory
Presenting Author: Vivienne Kraeter
Vivienne Kraeter: Tilburg University; Veronika Kritskaia: Tilburg University; Travis J. Wiltshire: Tilburg University; Silvy H.P. Collin: Tilburg University

**FT35.5** How Increasing Item and Cue Duration Influence Item-Method Directed Forgetting
Presenting Author: Pelin Tanberg
Pelin Tanberg: University of Waterloo; Colin M. MacLeod: University of Waterloo; Myra A. Fernandes: University of Waterloo; William E Hockley: Wilfrid Laurier University

**FT36.1** How children talk about their desires: A corpus study of ‘want’
Presenting Author: Sangeet Khemlani
Sangeet Khemlani: Altamira Corporation; Sangeet Khemlani: Naval Research Laboratory
FT36.2 *Intolerant Data: Testing The Tolerance Principle*  
**Presenting Author:** Xiaomeng Ma  
**Xiaomeng Ma:** Graduate Center, City University of New York;  
**Martin Chodorow:** Hunter College and the Graduate Center of CUNY;  
**Virginia Valian:** Hunter College

FT36.3 *How Do Children Combine Pointing and Language in the Earliest Stages of Development? A Case Study of Russian and Chintang*  
**Presenting Author:** Jekaterina Mazara  
**Jekaterina Mazara:** University of Zurich;  
**elena veronica maria lieven:** University of Manchester;  
**Sabine Stoll:** University of Zurich

FT36.4 *The link between language and cognition in infancy*  
**Presenting Author:** Apoorva Shivaram  
**Apoorva Shivaram:** Northwestern University;  
**Mary Youkhanna:** Western Sydney University;  
**Marieke van Heugten:** Western Sydney University;  
**Susan Hespos:** Northwestern University

FT36.5 *How to Build a Toddler Lexical Network*  
**Presenting Author:** Jennifer Weber  
**Jennifer Weber:** University of Colorado, Boulder;  
**Eliana Colunga:** University of Colorado Boulder

FT36.6 *Grounding Action Verbs in Egocentric Visual Perception*  
**Presenting Author:** Yayun Zhang  
**Yayun Zhang:** University of Texas - Austin;  
**Ellis Cain:** University of California, Merced;  
**David Crandall:** Indiana University;  
**Chen Yu:** University of Texas at Austin

FT37.1 *Beyond financial knowledge and IQ: The effect of temporal values on pension planning and financial wealth of natives and immigrants in the Netherlands*  
**Presenting Author:** Dr Yan Gu  
**Yeqiu Zheng:** Erasmus University Rotterdam;  
**Yan Gu:** UCL;  
**Arthur van Soest:** Tilburg University

FT37.2 *Locating past and future: The Influence of Spatial Ability on Time Representation*  
**Presenting Author:** Ege Otenen  
**Ege Otenen:** Sabanci University;  
**Junko Kanero:** Sabanci University

FT37.3 *Judgmental Time Series Forecasting: A systematic analysis of graph format and trend type*  
**Presenting Author:** ceyda tumen  
**ceyda tumen:** Bogazici University;  
**Aysecan Boduroglu:** Bogazici University

FT37.4 *Time to get attention: The effect of temporal values on health, income and happiness*  
**Presenting Author:** Dr Yan Gu  
**Yeqiu Zheng:** Erasmus University Rotterdam;  
**Yan Gu:** UCL;  
**Arthur van Soest:** Tilburg University

FT37.5 *Do humans have intuitive theories of time?*  
**Presenting Author:** James Daly  
**James Daly:** University of Texas at Austin;  
**Katharine A Tillman:** UT Austin

FT37.6 *Temporal Gestures in Different Temporal Perspectives*  
**Presenting Author:** Emir Akbuga  
**Emir Akbuga:** Koç University;  
**Uras Gülhan:** Koç University;  
**Sudenur Güngör:** Koç University;  
**Tilbe Göksun:** Koç University

FT38.1 *The cognitive neuroscience of social learning in human evolution*  
**Presenting Author:** Heidi Øhrn  
**Heidi Øhrn:** Department of Psychosocial Science;  
**Larissa Mendoza Straffon:** University of Bergen;  
**Andrea Bender:** University of Bergen

FT38.2 *Neurodiversity and anthropomorphism in social insect research*  
**Presenting Author:** Dr. Sidney Carls-Diamante  
**Alice Lacy:** Konrad Lorenz Institute;  
**Sidney Carls-Diamante:** University of Konstanz;  
**Giorgia Silani:** University of Vienna

FT38.3 *Internalized Beauty Ideals and Sociocultural Pressures Shape How Young Women and Men Perceive Body Attractiveness*  
**Presenting Author:** Trinidad Belén Speranza  
**Trinidad Belén Speranza:** National Scientific and Technical Research Council;  
**Ivonnia M Flores Bravo:** Pontificia Universidad Católica Argentina;  
**Soafa Abrevaya:** National Scientific and Technical Research Council;  
**Verónica Ramenzoni:** National Scientific and Technological Council of Argentina

FT38.4 *Active learning, feedback and hypercorrection effect in word learning*  
**Presenting Author:** Martina de Eccher  
**Martina de Eccher:** University of Goettingen;  
**Nivedita Mani:** University of Goettingen

FT38.5 *The moderation effect of Illusion of effect in word learning*  
**Presenting Author:** Ms. Atekeh Ebrahim  
**Atekeh Ebrahim:** Pavia University;  
**Babak Hemmatian:** University of Illinois Urbana-Champaign;  
**Mehdi Purmohammad:** Shahid Beheshti University
FT38.6 People think of others as more prosocial when they are motivated by aesthetic goals vs. instrumental goals
Presenting Author: Tanushree Agrawal
Tanushree Agrawal: University of California San Diego; Adena Schachner: University of California, San Diego

FT39.1 Modeling grammatical breakdown under processing load
Presenting Author: Lily Xu
Lily Xu: University of California, Los Angeles; Claire Moore-Cantwell: UCLA

FT39.2 Reduced phonological processing during speech-planning
Presenting Author: Elvan Emurla
Elvan Emurla: Humboldt University Berlin; Pauline Reiß: Humboldt University Berlin; Lily Marie Schrewe: Freie Universität Berlin; Mathias Barthel: HU Berlin

FT39.3 Morphological Strengthening of Phonological Performance in Child Speech
Presenting Author: Anastasia Chuprina
Anastasia Chuprina: HSE

FT39.4 Les Liaisons Dangereuses: Quantifying French liaison-induced homophony
Presenting Author: Sharon Peperkamp
Sharon Peperkamp: ENS-PSL; Victor Antoine: ENS-PSL; Rory Turnbull: Newcastle University

FT39.5 Walking munu and jumping bibi: Sound symbolism in (non)words produced by Turkish speakers
Presenting Author: Selin Topel
Selin Topel: Leiden University; Junko Kanero: Sabanci University; Noburo Saji: Waseda University; Tilbe Göksun: Koç University

FT39.6 Assessing the learnability of process interactions using grammatical spaces
Presenting Author: Christopher Yang
Christopher Yang: MIT; Adam Albright: MIT; Naomi H Feldman: University of Maryland

FT40.1 Learners Integrate Syntactic Frames and Semantic Hypotheses in Cross-situational Verb Learning
Presenting Author: Yiran Chen
Yiran Chen: University of Pennsylvania; Alexander S LaTourrette: University of Pennsylvania; John Trueswell: University of Pennsylvania

FT40.2 Key Open Door: Simulating Children’s Early Three-word Utterances Reveals Simple Statistical Regularities Underlying Telegraphic Speech
Presenting Author: Qihui Xu
Qihui Xu: Graduate Center, CUNY; Martin Chodorow: Hunter College and the Graduate Center of CUNY; Virginia Valian: Hunter College

FT40.3 Modelling Children’s Sentence Recall using an Encoder-Decoder Network
Presenting Author: Dr. Daniel Freudenthal
Daniel Freudenthal: University of Liverpool; Julian M. Pine: University of Liverpool; Colin Bannard: University of Manchester

FT40.4 Query-Based Memory Approximates Rational Induction: Applications to Infant Statistical Learning
Presenting Author: Robert Ralston
Robert Ralston: The Ohio State University; Vladimir Sloutsky: The Ohio State University

FT40.5 Identifying the distributional sources of children’s early vocabulary
Presenting Author: Georgia Loukatou
George Kachergis: Stanford University; Georgia Loukatou: Stanford University; Michael C. Frank: Stanford University

FT40.6 A First Look at Zipf’s Law and the Speech of Children with Autism Spectrum Disorder
Presenting Author: Leon García-Camargo
Leon García-Camargo: Gonzaga University; Jeb Kilfoyle: University of New Mexico; Paul De Palma: Gonzaga University; Mark VanDam: Washington State University; Joseph Stover: Gonzaga University

FT41.1 Understanding of Linguistic Scales in Speakers with Williams Syndrome
Presenting Author: Asya Achimova
Asya Achimova: University of Tübingen; Julien Musolino: Rutgers University; Rennie Pasquinelli: Johns Hopkins University; Martin V. Butz: University of Tübingen; Barbara Landau: Johns Hopkins University

FT41.2 Exploring age and gender differences in socio-semantic representations of words
Presenting Author: James Brand
Mikuláš Preininger: Charles University; James Brand: Charles University; Adam Kříž: Faculty of Arts, Charles University

FT41.3 The driving forces of polarity-sensitivity: Experiments with multilingual pre-trained neural language models
Presenting Author: Dr. Lisa Bylinina
Lisa Bylinina: Bookarang; Alexey Tikhonov: Independent researcher
FT42.1 Minimizing Expected Uncertainty in Visual Word Recognition: Are Readers Sensitive to the Distribution of Information across Word Forms?
Presenting Author: Dr Jon W Carr
Jon W Carr: International School for Advanced Studies (SISSA); Davide Crepaldi: International School for Advanced Studies (SISSA)

FT42.2 Parsing Compounds and Pseudocompounds at the Fovea
Presenting Author: Kyan Salehi
Kyan Salehi: Concordia University; Roberto G. de Almeida: Concordia University; Caitlyn Antal: McGill University

FT42.3 Low Spatial Proximity Between Text and Illustrations Improves Children’s Comprehension and Attention: An Eye Tracking Study
Presenting Author: Morgan Boyd

FT42.4 The effect of orthographic relationships, lexical status and contextual constraint on visual word recognition: Evidence from event-related potentials
Presenting Author: Neslihan Caliskan
Neslihan Caliskan: University of South Florida; Sara Milligan: University of South Florida; Elizabeth R Schotter: University of South Florida

FT42.5 Grapho-Syllabic Systematicity in Chinese: Chinese Pictographs Have a Non-Arbitrary relation with their Pronunciations
Presenting Author: Dr Hana Jee
Fiona Du: The University of Edinburgh; Hana Jee: The University of Edinburgh; Monica Tamariz: Harriot-Watt University; Richard Shilcock: The University of Edinburgh

FT43.1 Processing singular “they” is harder than plural “they”, but does not cause referential failure
Presenting Author: Peiyou Chen
Nadia Mansoor: Swarthmore College; Ella Shenkar: Swarthmore College; Ji Su Ahn: Swarthmore College; Peiyou Chen: Swarthmore College; Leah Owen-Oliver: Swarthmore College; Daniel Grodner: Swarthmore College

FT43.2 Investigating the real-time effect of register-situation formality congruence versus verb-argument semantic fit during spoken language comprehension
Presenting Author: Angela Giovanna Patarroyo
Angela Giovanna Patarroyo: Humboldt-Universität zu Berlin; Katja Maquate: Humboldt-Universität zu Berlin; Aine Ito: National University of Singapore; Pia Knoeferle: Humboldt-Universität zu Berlin; Pia Knoeferle: Charité

FT43.3 Second language vocabulary learning: When do pictures speak louder than words?
Presenting Author: Ms Paula Janjic
Paula Janjic: University of East Anglia; Kenny R Coventry: University of East Anglia

FT43.4 Integrating Non-Native Speaker Identity in Semantic and Pragmatic Processing
Presenting Author: Dr Martin Ho Kwan Ip
Martin Ho Kwan Ip: University of Pennsylvania; Anna Papafragou: University of Pennsylvania

FT43.5 Conditional probability of novel word sequences predicts immediate serial recall performance
Presenting Author: Cassandra Jacobs
Cassandra Jacobs: University at Buffalo; Steven Schwering: University of Wisconsin-Madison; Maryellen MacDonald: University of Wisconsin-Madison
FT43.6 Linguistic Anticipation in Children’s Correction Sentences
Presenting Author: Alejandra Mitzi Castellón-Flores
Alejandra Mitzi Castellón-Flores: Universidad Nacional Autónoma de México; Armando Quetzalcóatl Ángulo Chavira: UNAM; Natalia Arias-Trejo: Universidad Nacional Autónoma de México, UNAM

FT44.1 How to Explain the Automaticity of Object Recognition
Presenting Author: Dr Aleksandra Mroczko-Wasowicz
Aleksandra Mroczko-Wasowicz: University of Warsaw; Alfonso Anaya: University of Warsaw

FT44.2 Investigating the Composite Effect in Prototype-Defined Checkerboards vs. Faces
Presenting Author: Emika Waguri
Emika Waguri: University of Exeter; IPL McLaren: University of Exeter; Ciro Civile: University of Exeter

FT44.3 Local versus global coherence in the generalization of category training
Presenting Author: Josh C Glass
Josh C Glass: Binghamton University; Kenneth Kurtz: Binghamton University

FT44.4 Which semantic properties of a feature affect access to an object concept?
Presenting Author: Caitlyn Antal
Caitlyn Antal: McGill University; Roberto G. de Almeida: Concordia University; Brendan Johns: McGill University

FT44.5 Typicality gradients in the category fluency task
Presenting Author: Reba Koenen
Reba Koenen: Georgia Institute of Technology; Benjamin Y Hayden: University of Minnesota; Alexander B. Herman: University of Minnesota; Sashank Varma: Georgia Tech

FT44.6 Typicality Gradients in Computer Vision Models
Presenting Author: Neha Upadhyay
Neha Upadhyay: Georgia Institute of Technology; Kritika Mittal: Georgia Institute of Technology; Sashank Varma: Georgia Tech

FT45.1 The Principle of Sufficient Reason in ordinary cognition
Presenting Author: Scott Partington
Scott Partington: Cornell University; Alejandro Vesga: Cornell University; Shaun Nichols: Cornell University

FT45.2 Priming Counterintuitive Scientific Ideas
Presenting Author: Andrew Shulman
Andrew Shulman: Occidental College; Daniel Paul Meller: Occidental College

FT45.3 The Generation of Original and Known Explanations: How the presence or absence of relevant information influences sense-making and information foraging
Presenting Author: Kara Kedrick
Kara Kedrick: University of Minnesota; Iris Vilares: University of Minnesota; Paul Schrater: University of Minnesota, Twin Cities

FT45.4 Alternative Outcomes, Surprise, and Predicting Replication of Psychological Research
Presenting Author: Edward Munnich
Edward Munnich: University of San Francisco; Marci Adolfo: University of San Francisco; Erica Divinagracion: University of San Francisco; Sydney Laxson: University of San Francisco; Sabrina Ibrahim: University of San Francisco; Joshua Condry: University of San Francisco

FT45.5 Simplicity beyond probability: Simplicity’s role in evaluating explanations goes beyond providing cues to priors and likelihoods
Presenting Author: Thalia Vrantsidis
Thalia Vrantsidis: Princeton University; Tania Lombozo: Princeton University

FT45.6 Cognitive Differences in Human and AI Explanation
Presenting Author: Robert A Kaufman
Robert A Kaufman: University of California, San Diego; David Kirsh: UCSD

FT46.1 Optimal learning under structural environmental uncertainty reveals inherent learning trade-offs
Presenting Author: SANTIAGO HERCE CASTAÑÓN
SANTIAGO HERCE CASTAÑÓN: University of Geneva; Pedro Cardoso-Leite: University of Luxembourg; C. Shawn Green: University of Wisconsin-Madison; Daphne Bavelier: University of Geneva; Paul Schrater: University of Minnesota, Twin Cities

FT46.2 How Optimal is Too Optimal? Expectations About Performance in the Traveling Salesman Problem
Presenting Author: Serena DeStefani
Serena DeStefani: Rutgers University; Samuel S Sohn: Rutgers University; Adeeb Kabir: Rutgers University; Mubbasir Kapadia: Rutgers University; Jacob Feldman: Rutgers University

FT46.3 Exploration as a Learning Strategy to Support Children’s Pattern Learning
Presenting Author: Tricia J. Ngoon
Tricia J. Ngoon: Carnegie Mellon University; Vivian Leung: University of California, San Diego; Micah Goldwater: University of Sydney; Caren M. Walker: University of California San Diego
FT46.4 Far Analogical Transfer Is Associated with Aha Moments
Presenting Author: Christine Chesebrough
Christine Chesebrough: Drexel University; Tim George: Union College

FT46.5 Hints and the Aha-Accuracy Effect in Insight Problem Solving
Presenting Author: Taylor Strickland
Taylor Strickland: University of Illinois at Chicago; Jennifer Wiley: University of Illinois Chicago; Stellan Ohlsson: University of Illinois at Chicago

FT46.6 Measuring Quality of General Reasoning
Presenting Author: Luke Rowe
Alexandru Marcoci: University of Dundee; Margaret E Webb: The University of Melbourne; Luke I Rowe: Australian Catholic University; Ashley Barnett: University of Melbourne; Tamar Primoratz: The University of Melbourne; Ariel Kruger: University of Melbourne; Benjamin Stone: University of Melbourne; Michael L Diamond: University of Melbourne; Morgan Saletta: University of Melbourne; Tim van Gelder: University of Melbourne; Simon Dennis: University of Melbourne

FT47.1 Russian-language semantic categories and their brain activity correspondence
Presenting Author: Dr., Prof ELENA M POZDNYAKOVA
Vera Ivanovna Zabotkina: Russian State University for the Humanities; Artemy Kotov: Kurchatov Institute; ELENA M POZDNYAKOVA: Moscow State Institute of International Affairs (University)

FT47.2 N400 amplitudes as Bayesian surprise at the level of meaning
Presenting Author: Dr. Milena Rabovsky
Alma Lindborg: Potsdam University; Lea Musilek: Technical University Berlin; Dirk Ostwald: Universität Magdeburg; Milena Rabovsky: University of Potsdam

FT47.3 Long-Term Plausibility of Language Models and Neural Dynamics during Narrative Listening
Presenting Author: Subba Reddy Oota
Subba Reddy Oota: Inria; Frederic Alexandre: Inria-Research; Xavier Hinaut: Inria

FT47.4 Catastrophic interference in neural network models is mitigated when the training data reflect a power-law environmental structure
Presenting Author: Sibløy Lyndgaard
Sibløy Lyndgaard: Georgia Institute of Technology; Zachary R Tidler: Georgia Institute of Technology; Lucas Provine: Georgia Institute of Technology; Sashank Varma: Georgia Tech

FT47.5 The Neurobehavioral Basis of Parallel Individuation and Numerical Approximation
Presenting Author: Jean Ee Tang
Jean Ee Tang: Teachers College, Columbia University; Nick Bisbee: Johns Hopkins University; Maitri Jain: Teachers College, Columbia University; Daniela Sezçön-Cepeda: Teachers College, Columbia University; Sadra Gerami: Teachers College, Columbia University; Erin Kirby: Teachers College, Columbia University; Ariana Olivares: Teachers College, Columbia University; Emily Rose Mantaro: Teachers College, Columbia University; Samah Abdelrahim: Teachers College, Columbia University; Paul J Smith: Teachers College, Columbia University; Sungbong Kim: Teachers College, Columbia University; Peter Gordon: Teachers College, Columbia University

FT47.6 A Research Blueprint for the SOM Neurocomputational Cognitive Modeling of Brain Disorders
Presenting Author: Dr Spyridon Revithis
Spyridon Revithis: UNSW

FT48.1 Bizarreness Effect and Its Relation to Memory and Metamemory
Presenting Author: Samet Kaya
Samet Kaya: Bilkent University; Miri Besken: Bilkent University

FT48.2 Does Sans Forgetica font facilitate word memory?
Presenting Author: Lucy Cui
Lucy Cui: University of California, Los Angeles; Jereth Liu: Geffen Academy at UCLA

FT48.3 Changed-goal or cue-strengthening? An investigation into the underlying mechanisms of judgment of learning reactivity
Presenting Author: Minyu Chang
Minyu Chang: Cornell University; Charles Brainerd: Cornell University

FT48.4 Immediate Feedback Decreases False Recognition in the DRM Paradigm
Presenting Author: Dr. Angela Nelson Lowe
Angela Nelson Lowe: University of California, San Diego; John Wixted: UC San Diego

FT48.5 Finding the right words: A computational model of cued lexical retrieval
Presenting Author: Molly Apsel
Molly Apsel: Indiana University; Abhilasha A Kumar: Indiana University; Michael N. Jones: Indiana University

FT48.6 A neural implementation of MINERVA 2
Presenting Author: Professor Erik D Reichek
Erik D Reichek: Macquarie University; Aaron Veldre: University of Sydney; Lili Yu: Macquarie University; Sally Andrews: The University of Sydney
**FT49.1** Limits on Neural Networks: Agent-First Strategy in Child Comprehension  
**Presenting Author:** Dr. Gyu-Ho Shin  
**Gyu-Ho Shin:** Palacký University Olomouc; Seongmin Mun: Chosun University

**FT49.2** The contingency symmetry bias as a foundation of word learning: Evidence from 8-month-olds in a matching-to-sample task  
**Presenting Author:** Dr. Mutsumi Imai  
**Mutsumi Imai:** Keio University; Chizuko Murai: Seika Women’s Junior College; Masato Ohba: Keio University; Shohei Hidaka: Japan Advanced Institute of Science and Technology; Hiroyuki Okada: Tamagawa University; Kazuhide Hashiya: Kyushu University

**FT49.3** Prosodic input and children’s word learning in infant- and adult-directed speech  
**Presenting Author:** Dr. Mengru Han  
**Mengru Han:** East China Normal University; Nivja Helena De Jong: LUCF; Rene Kager: Utrecht University

**FT49.4** Visual perception of vertical movements in word learning  
**Presenting Author:** Sho Akamine  
**Sho Akamine:** Max Planck Institute for Psycholinguistics; Akari Omine: transcosmos inc.; Tsuyoshi Kohatsu: University of the Basque Country; Manami Sato: Okinawa International University

**FT49.5** Learning from Word Books: Does the Type of Illustration Matter?  
**Presenting Author:** Jennifer Weber  
**Jennifer Weber:** University of Colorado, Boulder; Eliana Colunga: University of Colorado Boulder

**FT50.1** Interaction in Acting Training and its Manifestations in Novices and Actors  
**Presenting Author:** Jingyan Sun  
**Jingyan Sun:** The University of Tokyo; Takeshi Okada: The University of Tokyo

**FT50.2** The acquisition of subordinate nouns as pragmatic inference: Semantic alternatives modulate subordinate meanings  
**Presenting Author:** June Choe  
**June Choe:** University of Pennsylvania; Anna Papafragou: University of Pennsylvania

**FT50.3** Vacant

**FT50.4** Study on Heterogeneous Roles in Coordinated Behavior of a Triad Using Force-based Models  
**Presenting Author:** Jun Ichikawa  
**Jun Ichikawa:** Shizuoka University; Keisuke Fuji: Nagoya University

**FT50.5** Rhythmic Coordination Affects Children’s Perspective-Taking during Online Communication  
**Presenting Author:** Yingjia Wan  
**Yingjia Wan:** Institute of Psychology, Chinese Academy of Sciences; Yipu Wei: Peking University; Baorui Xu: Peking University; Michael Tanenhaus: University of Rochester

**FT50.6** Modelling the Emergence of Linguistic Conventions for Word Order: The Roles of Semantics, Structural Priming, and Population Structure  
**Presenting Author:** Lois Dona  
**Lois Dona:** Utrecht University; Marieke Schouwstra: University of Amsterdam

**FT51.1** Emotion Evaluator: Expanding the Affective Lexicon with Neural Network Model  
**Presenting Author:** Junho Lee  
**Junho Lee:** Seoul National University; Jaeseo Lim: Seoul National University; Jooyong Park: Department of Psychology; Cheongtag Kim: Seoul National University

**FT51.2** A Quantum Walk Model For Emotion Transmission In Serial Reproduction of Narratives  
**Presenting Author:** Jiaqi Huang  
**Jiaqi Huang:** Indiana University; Qizi Zhang: Indiana University; Jerome Busemeyer: Indiana University; Fritz Breithaupt: Indiana University

**FT51.3** High-arousal positive emotion evoking is more effective in VR than on a 2D monitor based on computational affection  
**Presenting Author:** Dr. Feng Liu  
**Feng Liu:** East China Normal University; Yihao Zhou: East China Normal University; Xun Jia: East China Normal University; Hanyang Wang: East China Normal University; Siyuan Shen: East China Normal University; Aimin Zhou: East China Normal University

**FT51.4** Trait anxiety modulates negative affect-cued distribution of visuo-spatial attention.  
**Presenting Author:** Ms. Gursimran Kaur  
**Gursimran Kaur:** IIITD; Rakshita Anand: IIIT Delhi; Mrinmoy Chakrabarty: Indraprastha Institute of Information Technology Delhi (IIIT-D)

**FT51.5** Role of Implicit Emotion in Response Inhibition and Response Adjustment  
**Presenting Author:** Mr. Shubham Pandey  
**Shubham Pandey:** Indian Institute of Technology Bombay, Mumbai; Rashmi Gupta: Indian Institute of Technology Bombay, Mumbai
FT51.6 Psychological Flexibility Determines COVID-19 Peritraumatic Distress and Severity of Depression
Presenting Author: Rishabh Singhal
Rishabh Singhal: International Institute of Information Technology; Minaxi Goel: International Institute of Information Technology, Hyd; Priyanka Srivastava: International Institute of Information Technology, Hyderabad

FT52.1 Modeling Causal Inference from Emotional Displays
Presenting Author: Dennis W.H. Teo
Dennis W.H. Teo: National University of Singapore; Zheng Yong Ang: National University of Singapore; Desmond Ong: National University of Singapore

FT52.2 Analogy Use in Parental Explanation
Presenting Author: Yang Gao
Yang Gao: Tsinghua University; Kexin Que: Tsinghua University; Zijing Tan: Tsinghua University; Yi Zhang: Tsinghua University; Stella Christie: Tsinghua University

FT52.3 Expectations of Causal Determinism in Causal Learning
Presenting Author: Graduate Student Phuong (Phoebe) Ngoc Dinh
Phuong (Phoebe) Ngoc Dinh: Carnegie Mellon University; David Danks: University of California, San Diego

FT52.4 Causal invariance guides inference of empirical integration rules
Presenting Author: Jeffrey K Bye
Jeffrey K. Bye: University of Minnesota; Patricia Cheng: UCLA

FT52.5 Exploring the Richness of Human Causal Reasoning with Think Aloud Data
Presenting Author: Dr Stephen H Dewitt
Stephen H Dewitt: University College London; Ekaterina K Stoilova: University College London; David Lagnado: University College London

FT52.6 The Perceived Dilution of Causal Strength
Presenting Author: Simon Stephan
Simon Stephan: University of Göttingen; Neele Engelmann: University of Göttingen; Michael R. Waldmann: University of Göttingen

FT53.1 Identifying a Phonetic Factors of Onomatopoeias Correlated to Sound Symbolic Commons between Japanese and Non-Japanese Speakers
Presenting Author: Maki Miyamoto
Maki Miyamoto: Japan Advanced Institute of Science and Technology; Shohei Hidaka: Japan Advanced Institute of Science and Technology

FT53.2 ‘Sheep’ and ‘Ship’: An investigation into English vowel merger in multilingual Singapore
Presenting Author: Ms Fei Ting Woon
Fei Ting Woon: Nanyang Technological University; Suzy J. Styles: Nanyang Technological University

FT53.3 Metonymy as a Universal Cognitive Phenomenon: Evidence from Multilingual Lexicons
Presenting Author: Mrs. Temuulen Khishigsuren
Temuulen Khishigsuren: National University of Mongolia; Gábor Bella: University of Trento; Thomas Brochhagen: Universitat Pompeu Fabra; Daarimaa Marav: National University of Mongolia; Fausto Giunchiglia: University of Trento; Khuyagbaatar Batsuren: National University of Mongolia

FT53.4 Studying the Effect of Moderator Biases on the Diversity of Online Discussions: A Computational Cross-linguistic Study
Presenting Author: Katherine J Atwell
Sabit Hassan: University of Pittsburgh; Katherine J Atwell: University of Pittsburgh; Malihe Alikhani: UPitt

FT53.5 From social identity to meaning interpretation: when looser speakers are treated more strictly
Presenting Author: Andrea Beltrama
Andrea Beltrama: University of Pennsylvania; Florian Schwarz: University of Pennsylvania

FT53.6 Quantifying the Socio-semantic Representations of Words
Presenting Author: James Brand
Mikuláš Preininger: Charles University; James Brand: Charles University; Adam Kríž: Faculty of Arts, Charles University

FT54.1 Sampling-based probability construction explains individual differences in risk preference
Presenting Author: Mr Bhanu Prakash Ankoju
Bhanu Prakash Ankoju: Indian Institute of Technology Kanpur; Nisheeth Srivastava: Indian Institute of Technology

FT54.2 Selecting between visuomotor lotteries to measure mental effort in risky decisions
Presenting Author: Selecting between visuomotor lotteries to measure mental effort in risky decisions samarth mehrotra samarth mehrotra: Indian Institute of Technology Kanpur; Nisheeth Srivastava: Indian Institute of Technology
FT54.3 Perception of Risk and Intention for Vaccination in times of Covid-19 emergency in an Indian sample
Presenting Author: Dr. Divya Bhatia
Alessandro Santirocchi: Sapienza University of Rome; Divya Bhatia: O.P. Jindal Global University; Rakhi Gupta: O.P. Jindal Global University; Pietro Spataro: Universitas Mercatorum; Clelia Rossi-Arnaud: Sapienza University of Rome; Vincenzo Cestari: Sapienza University of Rome

FT54.4 Meta-Learning of Dynamic Policy Adjustments in Inhibitory Control Tasks
Presenting Author: Soumya Chatterjee
Soumya Chatterjee: Google Research India; Aakriti Kumar: University of California, Irvine; Pradeep Shenoy: Google Research India

FT54.5 Radial Basis Leaky Competing Accumulator Model: A Biologically Plausible Framework for Decision-Making in a Continuous Option Space
Presenting Author: Amir Hosein Hadian Rasanan
Amir Hosein Hadian Rasanan: Shahid Beheshti University; Jamal Amani Rad: Shahid Beheshti University; Laura Fontanesi: University of Basel

FT54.6 Connecting Exploration, Generalization, and Planning in Correlated Trees
Presenting Author: Tobias Ludwig
Tobias Ludwig: MPI Biological Cybernetics; Charley M Wu: University of Tübingen; Eric Schulz: Max Planck Institute for Biological Cybernetics

FT55.1 Summary statistics extracted in tactile feature
Presenting Author: Midori Tokita
Midori Tokita: Meiji University; Akira Ishiguchi: Ochanomizu University

FT55.2 Perceptual Grouping for War and Peace
Presenting Author: Zhen Li
Zhen Li: Zhejiang University; Ning Tang: Zhejiang University; Jiaying Zhang: Zhejiang University; Siyi Gong: University of California, Los Angeles; Jifan Zhou: Zhejiang University; Mowei Shen: Zhejiang University; Tao Gao: UCLA

FT55.3 Assessing Deepfake Video Detection Ability Using Unsupervised Machine Learning
Presenting Author: Gernel Walker
Zachary R Tidler: Georgia Institute of Technology; Thereza Pereira: Federal University of Paraiba; Gernel Lumacad: St. Rita’s College of Balingsasag; Richard Catrambone: Georgia Institute of Technology

FT55.4 Face-prefering regions in FFA, STS, and MPFC have different functions.
Presenting Author: Heather L Kosakowski
Heather L Kosakowski: MIT; Nancy Kanwisher: Massachusetts Institute of Technology; Rebecca Saxe: MIT

FT55.5 Manipulating the face contour affects face recognition performance leaving the Face Inversion Effect unaltered
Presenting Author: Siobhan McCourt
Siobhan McCourt: University of Exeter; IPL McLaren: University of Exeter; Ciro Civile: University of Exeter

FT55.6 The speed of statistical perception
Presenting Author: Brynn E Sherman
Brynn E Sherman: Yale University; Sami R Yousif: Yale University; Caroline Reiner: Yale University; Frank Keil: Yale University

FT56.1 Neural Language Model-based Readability Assessment of Computer Science Introductory Texts for English-as-a-Second Language Learners
Presenting Author: Yo Ehara
Yo Ehara: Tokyo Gakugei University

FT56.2 When we feel watched: Effects of presenting the teacher’s face on students’ monitors during online classes
Presenting Author: Kozue Miyashiro
Kozue Miyashiro: Utsunomiya University

FT56.3 Science Education Helps Suppress Naïve Science Thinking
Presenting Author: Rui WANG
Rui WANG: University of Cambridge; Aaron Britton: Queen’s University Belfast; Harriet Godfrey: Queen’s University Belfast; Aidan Feeney: Queen’s University Belfast; Michelle Ellefson: University of Cambridge

FT56.4 The relations between parent–educator communication, the home environment, and children’s outcomes in preschool
Presenting Author: Tanya M Paes
Tanya M Paes: Purdue University; Joyce Lin: California State University, Fullerton; Robert Duncan: Purdue University; David Purpura: Purdue University; Sara Schmitt: Purdue University

FT56.5 Math Self-Concept, Stereotypes, Achievement and Anxiety – A Cross-Sectional Study
Presenting Author: M.Sc. Alexander von Bergen
Alexander von Bergen: ETH Zurich; Dario Cvencek: Institute of Learning and Brain Sciences; Esther Ziegler: ETH Zurich; Venera Gasaj: ETH; Andrew Melzof: University of Washington, Institute of Learning and Brain Sciences; Manu Kapur: ETH Zurich
FT56.6 Does Expressive Writing Blunt the Effects of Math Anxiety on Math Performance? A Conceptual Replication and Extension of Park et al. (2014)
Presenting Author: Daniel A Scheibe
Daniel A Scheibe: Kent State University; Christopher Was: Kent State University; Clarissa A Thompson: Kent State University

FT57.1 Evaluating locality in NMT models
Presenting Author: Itay Itzhak
Itay Itzhak: Tel Aviv University; Koustuv Sinha: McGill; Brenden Lake: NYU; Adina Williams: Facebook AI Research; Dieuwke Hupkes: Facebook AI Research

FT57.2 Efficient learning through compositionality in a CNN-RNN model consisting of a bottom-up and a top-down pathway
Presenting Author: Martin V. Butz
Sarah Fabi: University of Tübingen; Lena Holzwarth: University of Tübingen; Martin V. Butz: University of Tuebingen

FT57.3 Priority-Adjusted Replay for Successor Representations
Presenting Author: Mr Samuel Barnett
Samuel Barnett: Princeton University; Ida Momennejad: Microsoft Research

FT57.4 Towards Capturing Scientific Reasoning to Automate Data Analysis
Presenting Author: Yolanda Gil
Yolanda Gil: University of Southern California; Deborah Khider: Information Sciences Institute; Maximiliano Osorio: University of Southern California; Varun Ratnakar: Information Sciences Institute; Hernandez Vargas: University of Southern California; Daniel Garijo: University of Southern California; Suzanne Pierce: The University of Texas in Austin

FT57.5 User-Centric Enhancements to Explainable AI Algorithms for Image Classification
Presenting Author: Severine Soltani
Severine Soltani: University of California, San Diego; Robert A Kaufman: University of California, San Diego; Michael J Pazzani: University of California, San Diego

FT57.6 Representational Smoothing to Improve Medical Image Decision Making
Presenting Author: Eeshan Hasan
Eeshan Hasan: Vanderbilt University; Jennifer Trueblood: Vanderbilt University

FT58.1 A Quantitative Symbolic Approach to Individual Human Reasoning
Presenting Author: Emmanuelle-Anna Dietz
Emmanuelle Dietz: Airbus Central Research & Technology; Johannes Klaus Fichte: TU Wien; Florim Hamiti: Empty

FT58.2 Bayesian comparators: a probabilistic modeling tool for similarity evaluation between predicted and perceived patterns
Presenting Author: Alexandra Steinhilber
Alexandra Steinhilber: Laboratoire de Psychologie et NeuroCognition; Sylviane Valdois: CNRS et Université Grenoble Alpes; Julien Diard: CNRS - Université Grenoble Alpes

FT58.3 Reasoning from Samples to Populations: Children Use Variability Information to Predict Novel Outcomes
Presenting Author: Elizabeth Lapidow
Elizabeth Lapidow: University of California, San Diego; Mariel K. Goddu: Harvard University; Caren M. Walker: University of California San Diego

FT58.4 The Myside Bias in Argument Evaluation: A Bayesian Model
Presenting Author: Edoardo Baccini
Edoardo Baccini: University of Groningen; Stephan Hartmann: LMU Munich

FT58.5 Examining Strategy Differences on the Relational Match-to-Sample Task (RMTS)
Presenting Author: Graduate Researcher Mercury K Mason
Mercury K Mason: Binghamton University; Kenneth Kurtz: Binghamton University

FT58.6 The effect of language on the approximate number system
Presenting Author: Harmen Gudde
Harmen Gudde: University of East Anglia; Kenny R Coventry: University of East Anglia

FT59.1 Role of Prior Knowledge in Feedback Timing
Presenting Author: Julie Shirah
Julie Shirah: University of Kentucky; Pooja Gupta Sidney: University of Kentucky

FT59.2 Fact-checking Instruction Strengthens the Association between Attitudes and Use of Lateral Reading Strategies in College Students
Presenting Author: Jessica E. Brodsky
Jessica E. Brodsky: College of Staten Island and the Graduate Center, CUNY; Arshia K Lodhi: College of Staten Island; Catherine M Messina: Columbia University; Patricia J. Brooks: College of Staten Island and the Graduate Center, CUNY

FT59.3 Retrieval Practice Promotes Learning of Turkish as a Foreign Language: A Computer-Assisted Language Learning Study
Presenting Author: Maya C Rose
Maya C Rose: CUNY Graduate Center; Patricia J. Brooks: College of Staten Island and the Graduate Center, CUNY; Arshia K Lodhi: College of Staten Island; Angela Cortez: College of Staten Island
FT59.4 Self-Explaining the Notional Machine to Improve Novice Programmers’ Learning and Mental Models, Supported by a Computer Tutor System

Presenting Author: Miss Veronica S Chiarelli
Veronica S Chiarelli: Carleton University; Kasia Muldner: Carleton University

FT59.5 How does Sustaining and Interleaving Visual Scaffolding Help Learners? A Classroom Study with an Intelligent Tutoring System

Presenting Author: Tomohiro Nagashima
Tomohiro Nagashima: Carnegie Mellon University; Elizabeth Ling: Harvard University; Bin Zheng: Carnegie Mellon University; Anna N. Bartel: University of Wisconsin, Madison; Elena Marie Silla: University of Delaware; Nicholas A Vest: University of Wisconsin-Madison; Martha W Alibali: University of Wisconsin-Madison; Vincent Alevé: Carnegie Mellon University

FT59.6 Eliciting Proactive and Reactive Control during Use of an Interactive Learning Environment

Presenting Author: Deniz Sonmez Unal
Deniz Sonmez Unal: University of Pittsburgh; Catherine M. Arrington: Lehigh University; Erin Solovey: Worcester Polytechnic Institute; Erin Walker: University of Pittsburgh

FT60.1 Multimodal Communication in Virtual and Face-to-Face Settings: Gesture Production and Speech Disfluency

Presenting Author: Burcu Arslan
Burcu Arslan: Koç University; Can Avci: Koç University; Tilbe Göksun: Koç University

FT60.2 Gesture and Speech Disfluency in Narrative Context: Disfluency Rates in Spontaneous, Restricted, and Encouraged Gesture Conditions

Presenting Author: Can Avci
Can Avci: Koç University; Burcu Arslan: Koç University; Tilbe Göksun: Koç University

FT60.3 Timing relationships between representational gestures and speech: A corpus based investigation

Presenting Author: Dr Ed Donnellan
Ed Donnellan: University College London; Levent Emir Özder: Koç University; Hillarie Man: University College London; Beata Grzyb: University College London; Yan Gu: UCL; Gabriella Vigliocco: University College London

FT60.4 Why do people gesture more during disfluent speech? A pragmatic account.

Presenting Author: Yağmur Deniz Kisa
Yağmur Deniz Kisa: University of Chicago; Cordelia Achen: Stanford University; Susan Goldin-Meadow: University of Chicago; Daniel Casasanto: Cornell University

FT60.5 Exploring the Role of Pragmatic Reasoning in Linguistic Framing Effects

Presenting Author: Kevin J. Holmes
Rishi Krishnamurthy: Reed College; Nan Elpers: Reed College; Paul Thibodeau: Oberlin College; Stephen Flusberg: Purchase College, SUNY; Kevin J. Holmes: Reed College

FT60.6 Accessibility factors that lead to good-enough language production

Presenting Author: Crystal Lee
Crystal Lee: Princeton University; Casey Lew-Williams: Princeton University; Adele Goldberg: Princeton University

FT60.7 Creativity, Compositionality, and Common Sense in Human Goal Generation

Presenting Author: Guy Davidson
Guy Davidson: New York University; Todd M Gureckis: New York University; Brenden Lake: NYU

FT60.8 Making Predictions Without Data: How an Instance-Based Learning Model Predicts Sequential Decisions in the Balloon Analog Risk Task

Presenting Author: Erin H. Bugbee
Erin H. Bugbee: Carnegie Mellon University; Cleotilde Gonzalez: Carnegie Mellon University

FT60.9 Selection of goal-consistent acoustic environments by adults and preschool-aged children

Presenting Author: Rondeline M. Williams
Rondeline M. Williams: Stanford University; Michael C. Frank: Stanford University

FT60.10 Decision Variables in the Case of Police Lineup Rejections

Presenting Author: Anne S Yilmaz
Anne S Yilmaz: University of California, San Diego; John Wixted: UC San Diego

FT60.11 Undoing in human planning

Presenting Author: Dongjae Kim
Dongjae Kim: New York University; Sherry Dongqi Bao: New York University; Qixiu Fu: New York University; Wei Ji Ma: New York University

FT60.12 Adults’ Processing of Overextensions Reflects Category Violation. An ERP study

Presenting Author: Lucas Raynal
Lucas Raynal: Paris Descartes; Evelyne Clément: Université d’Orsay; Pia Ràma: Paris Descartes; Emmanuel Sander: University of Geneva; Louise Goyet: Paris &
FT62.2 An End-to-End Imagery-Based Modeling of Solving Geometric Analogy Problems
Presenting Author: Yuan Yang
Yuan Yang: Vanderbilt University; Deepayan Sanyal: Vanderbilt University; Joel Michelson: Vanderbilt University; James Ainooson: Vanderbilt University; Maithilee Kunda: Vanderbilt University

FT62.3 Perceptual Similarity Affects Relational Judgements
Presenting Author: Dr. Priya B. Kalra
Priya B. Kalra: University of Western Ontario

FT62.4 Children's Acquisition of the Concept of Antonym Across Different Lexical Classes
Presenting Author: Amalia Ionescu
Amalia Ionescu: UCLA; Hongjing Lu: UCLA; Keith Holyoak: University of California, Los Angeles; Catherine Sandhofer: University of California, Los Angeles

FT62.5 Conceptual Prerequisites for Proportional Analogy
Presenting Author: Shuyuan Yu
Shuyuan Yu: the Ohio State University; Ho-Chieh Lin: The Ohio State University; John Opfer: The Ohio State University

FT62.6 Pragmatics of Metaphor Revisited: Modeling the Role of Degree and Salience in Metaphor Understanding
Presenting Author: Alexandra Mayn
Alexandra Mayn: Saarland University; Vera Demberg: Saarland University

FT63.1 Agreement can facilitate learning of noun class systems
Presenting Author: Shira Tal
Shira Tal: University of Edinburgh; Kenny Smith: University of Edinburgh; Jennifer Culbertson: University of Edinburgh

FT63.2 Does Positional Level Structural Priming Depend on the Verb?
Presenting Author: Dr. Alexandra K Frazer
Alexandra K Frazer: Muhlenberg College; Anna Riordan: Muhlenberg College; Jessica N Rostrom: Muhlenberg College

FT63.3 Two measures for complement coercion interpretation: Interpretation vs production for complement coercion
Presenting Author: Barend Beekhuizen
Frederick Dietz: University of Toronto; Barend Beekhuizen: University of Toronto, Mississauga

FT63.4 Syntactic adaptation to short-term cue-based distributional regularities
Presenting Author: Weijie Xu
Weijie Xu: University of California, Irvine; Jiaxuan Li: University of California Irvine; Ming Xiang: University of Chicago; Richard Futrell: UC Irvine

FT63.5 Learning Biases for Syncretic Morphological Systems
Presenting Author: Sara Finley
Sara Finley: Pacific Lutheran University

FT63.6 Does One Size Fit all in Crosslinguistic Dependency Length Minimization?
Presenting Author: Zoey Liu
Zoey Liu: Boston College; Ria Upreti: University of Texas at Austin; Mathew A. Kramer: University of Michigan; Savithry Namboodiripad: University of Michigan, Ann Arbor

FT64.1 Inter-Team Cognitive Diversity – Using Distributed Cognition for Analyzing Team Cognitive Diversity
Presenting Author: Juhani Merilehto
Juhani Merilehto: University of Jyväskylä

FT64.2 Sharing of mental effort in a joint task
Presenting Author: Vjeran Keric
Vjeran Keric: Central European University; Natalie Sebanz: Central European University

FT64.3 Modeling cognitive diversity in group problem solving
Presenting Author: Samuli Reijula
Samuli Reijula: University of Helsinki; Jaakko Kuorikoski: University of Helsinki

FT64.4 Learning Through Collaboration: Designing Collaborative Activities to Promote Individual Learning
Presenting Author: Katherine S Moore
Katherine S Moore: MIT; James E. Corter: Columbia University

FT64.5 Know your network: people infer cultural drift from network structure, and expect collaborating with more distant experts to improve innovation, but collaborating with network-neighbors to improve memory
Presenting Author: Emory Richardson
Emory Richardson: Yale University; Daniela Miro-Rivera: Yale University; Frank Keil: Yale University
FT64.6 Exploration is Higher in Social Contexts at the Cost of Rewards
Presenting Author: Rista C Plate
Rista C Plate: University of Pennsylvania; Huang Ham: Department of Psychology; Adrianna C. Jenkins: University of Pennsylvania

FT65.1 Color Overmodification Emerges from Data-Driven Learning and Pragmatic Reasoning
Presenting Author: Fei Fang
Fei Fang: Stanford University; Kunal Sinha: Stanford University; Noah Goodman: Stanford University; Christopher Potts: Stanford University; Elisa Kreiss: Stanford University

FT65.2 Pragmatic Reasoning in Structured Signaling Games
Presenting Author: Emil Carlsson
Emil Carlsson: Computer Science and Engineering; Devdatt Dubhashi: Chalmers University of Technology

FT65.3 Applying the pragmatics-first approach to agent-based models of emergent communication – insights from a study in experimental semiotics
Presenting Author: Katarzyna Skowrońska
Katarzyna Skowrońska: University of Warsaw; Piotr Jończyk: University of Warsaw

FT65.4 Modeling atypicality inferences in pragmatic reasoning
Presenting Author: Vera Demberg
Ekaterina Kravtchenko: Saarland University; Vera Demberg: Saarland University

FT65.5 An explanation of representativeness: contrastive confirmation-theoretical reasoning motivated by question-answering dynamics
Presenting Author: Janek Guerrini
Janek Guerrini: Ecole Normale Supérieure; Mathias Sablé-Meyer: NeuroSpin center, CEA DRF/12BM, INSERM, Université Paris-Sud, Université Paris-Saclay; Salvador Mascarenhas: Ecole Normale Supérieure

FT65.6 Adjusting the Use of Generalizations Based on Audience Expertise
Presenting Author: Jeff Coon
Jeff Coon: UC Irvine; Alexander Etz: The University of Texas at Austin; Gregory Scontras: University of Irvine; Barbara W Sarnecka: University of California-Irvine

FT66.2 What’s Different About Improvised Rap?
Presenting Author: Jordan A Ackerman
Jordan A Ackerman: UC Merced

FT66.3 Cue integration in speech and music
Presenting Author: May Pik Yu Chan
May Pik Yu Chan: University of Pennsylvania; Jianjing Kuang: University of Pennsylvania

FT66.4 Young children’s drawings and descriptions of layouts and objects
Presenting Author: Dr. Moira Rose Dillon
Agata Bochynska: New York University; Moira Rose Dillon: New York University

FT66.5 Fluency modulates ordering of visual narrative layouts
Presenting Author: Neil Cohn
Neil Cohn: Tilburg University; Irmak Hacimusaoğlu: Tilburg University; Bien Klomberg: Tilburg University

FT66.6 Improving Improv: Effects of Interpersonal Coordination on Music Improvisation
Presenting Author: Tevin Williams
Tevin Williams: University of North Carolina at Charlotte; Alexia Galati: University of North Carolina at Charlotte

FT67.1 Does error-driven learning occur in the absence of cues? Examination of the effects of updating connection weights to absent cues
Presenting Author: Dr Jessie S. Nixon
Jessie S. Nixon: Universität Tübingen; Sanne Poelstra: University of Groningen; Jacobien van Rij: University of Groningen

FT67.2 Three systems interact in one-shot reinforcement learning
Presenting Author: Amy R Zou
Amy R Zou: University of California, Berkeley; Anne GE Collins: UC Berkeley

FT67.3 Modelling Dual-Processes in a Connectionist Network
Presenting Author: Mr Toby D Johnson
Toby D Johnson: University of Exeter; IPL McLaren: University of Exeter

FT67.4 Modeling the Learning and Use of Probability Distributions in Chimpanzees and Humans
Presenting Author: Ardavan Nobandegani
Thomas Shultz: McGill University; Ardavan S. Nobandegani: McGill University
FT67.5 Contingency learning decreases when associations are shared
Presenting Author: Brady R. T. Roberts
Brady R. T. Roberts: University of Waterloo; Noah Forrin: McMaster University; David McLean: University of Waterloo; Colin M. MacLeod: University of Waterloo

FT67.6 Machines and Molds: An Exploration of Brainless Cognition
Presenting Author: Ms. Laurie E O'Neill
Laurie E O'Neill: Muhlenberg College; Alexandra K Frazer: Muhlenberg College

FT68.1 Bridging the prosody GAP: Genetic Algorithm with People to efficiently sample emotional prosody
Presenting Author: Pol van Rijn
Pol van Rijn: Max Planck Institute for Empirical Aesthetics; Harin Lee: Max Planck Institute for Human Cognitive and Brain Sciences; Nori Jacoby: Max Planck Institute for Empirical Aesthetics

FT68.2 Angry, sad, or scared? Within-valence mapping of emotion words to facial and body cues in 2- to 4-year old children
Presenting Author: Yang Wu
Yang Wu: Stanford University; Hannah Matteson: Stanford University; Claire M. Baker: Stanford University; Michael C. Frank: Stanford University

FT68.3 A Bayesian Drift-Diffusion Model of Schachter-Singer’s Two-Factor Theory of Emotion
Presenting Author: Lance Ying
Lance Ying: University of Michigan; Audrey Michal: University of Michigan; Jun Zhang: University of Michigan

FT68.4 Emotions, age, and subjective probability in children
Presenting Author: Lara Bertram
Lara Bertram: University of Surrey; Jonathan D. Nelson: University of Surrey; Azzurra Ruggeri: Max Planck Institute for Human Development

FT68.5 The demographics of pain: How age, race, and gender affect pain assessments
Presenting Author: Nicole Steiner
Nicole Steiner: The University of Texas at Austin; Katharine A Tillman: UT Austin

FT69.2 Hering’s opponent-colors theory fails a key test in a non-Western culture
Presenting Author: Bevil R Conway
Bevil Conway: National Eye Institute and National Institute of Mental Health; Saima Malik-Moraleda: Harvard University; Edward Gibson: Massachusetts Institute of Technology

FT69.3 Rates of gender representation in children’s literature across cultures: A comparison of US vs. Chinese children’s books
Presenting Author: Tianlin Wang
Qi Sun: SUNY at Albany; Ching-I Huang: SUNY at Albany; Kennedy Casey: University of Chicago; Matthew Cooper Borkenhagen: University of Wisconsin-Madison; Tianlin Wang: University at Albany-SUNY

FT69.4 What creates violations of linguistic universals? Correlates of linguistic rarities and their importance in studying lingusdiversity
Presenting Author: Arturs Semenuks
Arturs Semenuks: University of California, San Diego

FT69.5 Familial Guilt: A Cross-Society Comparison of Judgments of Collective Family Responsibility
Presenting Author: Junho Lee
Junho Lee: University of California, Los Angeles; Keith Holyoak: University of California, Los Angeles

FT69.6 Nature in the Balance: Symmetry in perceived human-nature relations predicts pro-environmental attitudes
Presenting Author: Joan Kim
Joan Kim: Northeastern University; John D Coley: Northeastern University

FT70.1 The role of predictability and sense of agency in time estimation
Presenting Author: Tsuyoshi Kohatsu
Tsuyoshi Kohatsu: University of the Basque Country; Sho Akamine: Max Planck Institute for Psycholinguistics; Akari Omine: transcosmos inc.; Manami Sato: Okinawa International University

FT70.2 How people use the past as cues to the present
Presenting Author: Ms Mahi K Luthra
Mahi K Luthra: Indiana University; Peter M. Todd: Indiana University, Bloomington

FT70.3 Comparing Impact of Time Lag and Item Lag in Relative Judgment of Recency
Presenting Author: Sahaj Maini
Sahaj Singh Maini: Indiana University; Louis Francis Labuzienski: Indiana University; Saurabh Gulati: Indiana University Bloomington; Zoran Tiganj: Indiana University Bloomington
**FT70.4** Contrasting the semantic typology biases of Deaf and hearing people in their conceptualization of time and space  
Presenting Author: Roberto Aguirre  
Maria Noel Macedo: Universidad de la República; Matías M. Yerro Avincetto: CONICET-UNMDP-CIC; Jorge Ricardo Vivas Dr.: CONICET-UNMDP-CIC; Alejandro Fojo: Universidad de la República; Adriana de León: Universidad de la República; Maximiliano Meliande: Universidad de la República; Roberto Aguirre: Universidad de la República

**FT70.6** Sensitivity to time discrepancy: A computational model of human response to expectancy disconfirmation  
Presenting Author: Yuki Sasamoto  
Yuki Sasamoto: Fujitsu; Daichi Katsura: Fujitsu; Shinji Hotta: Fujitsu; Satoshi Amemiya: Fujitsu; Kensuke Kuraki: Fujitsu; Naoyuki Sawasaki: Fujitsu; Akihiro Inomata: Fujitsu

**FT71.1** Self-report vs. objective data. What impact of monitoring on smartphone use regulation?  
Presenting Author: Risienne Mazengani  
Jean-Marc Josset: b<>com; Risienne Mazengani: University of Paris-Saclay; Martin Ragot: b<>com

**FT71.2** Predicting Individual Discomfort in Autonomous Driving  
Presenting Author: MSc. Sara Todorovikj  
Sara Todorovikj: University of Technology Chemnitz; Felix Kettner: University of Technology Chemnitz; Daniel Brand: Chemnitz University of Technology; Matthias Beggiato: Chemnitz University of Technology; Marco Ragni: TU Chemnitz

**FT71.3** People’s evaluation of programs that drive agents’ behavior  
Presenting Author: Eric Bigelow  
Eric Bigelow: Harvard University; Tomer D. Ullman: Harvard University

**FT71.4** Children as Design Partners: Digital Media, Learning Analytics, and Metacognition  
Presenting Author: Leanne Ma  
Leanne Ma: OISE/University of Toronto

**FT71.5** Who owns your information? Young children’s judgments of who owns the general and personal information users share with apps.  
Presenting Author: Shaylene E Nancekivell  
Shaylene E Nancekivell: University of North Carolina at Greensboro; Jason B Fahey: University of North Carolina at Greensboro

**FT71.6** Toward Digital Transformation of Personality Questionnaire: Development of Digitalized Questionnaires and Correlation Analysis between Personality Traits and Reactions Obtained during answering the Questionnaires  
Presenting Author: Takashi Numata  
Takashi Numata: Hitachi, Ltd.; Yasuyuki Kudo: Hitachi, Ltd.; Takeshi Kato: Kyoto University; Michihiro Kaneko: Kyoto University; Michio Nomura: Kyoto University; Yusuke Moriguchi: Kyoto University; Ryuji Mine: Kyoto University

**FT72.1** Controlling the narrative: Euphemistic language affects judgments of actions while avoiding perceptions of dishonesty  
Presenting Author: Mr. Alexander C. Walker  
Alexander C. Walker: University of Waterloo; Martin Turpin: University of Waterloo; Ethan Meyers: University of Waterloo; Jennifer Stolz: University of Waterloo; Jonathan Fugelsang: University of Waterloo; Derek Koehler: University of Waterloo

**FT72.2** Constructing positive illusions in close relationships through latent-cause inference  
Presenting Author: Yeon Soon Shin  
Yeon Soon Shin: Yale University; Molly J Crockett: Yale University

**FT72.3** Do children interpret costs as signals of commitment to groups?  
Presenting Author: Emily Gerdin  
Emily Gerdin: Yale University; Yarrow Dunham: Yale University

**FT72.4** “He only changed his answer because they shouted at him”: children use affective cues to distinguish between genuine and forced consensus  
Presenting Author: Emory Richardson  
Emory Richardson: Yale University; Frank Keil: Yale University

**FT72.5** Inferences from Disagreement  
Presenting Author: Dr. Jamie Amemiya  
Jamie Amemiya: University of California, San Diego; Gail D. Heyman: UC San Diego; Tobias Gerstenberg: Stanford University

**FT72.6** Can Children Detect Fake News?  
Presenting Author: Shiao Xu  
Shiao Xu: Occidental College; Andrew Shtulman: Occidental College; Andrew G Young: Northeastern Illinois University
Eight poster sessions are happening throughout the CogSci 2022 Conference in Constitution Hall (105-107, North Building at the Metro Toronto Convention Centre). Posters are grouped into rough themes.

Poster numbers are PX-XX-XXXX. The first number after P, identifies the poster session you’re assigned to. The 2nd two-digit number is the location of the poster in the hall. This number can be 1 through 34 and identifies exactly where you are in the hall. The final four-digit number is the unique poster/paper ID number.

**POSTER SESSION 1 - EDUCATION, LANGUAGE ACQUISITION, AND DEVELOPMENT**

**JULY 28TH, 2022 - 10:20 - 12:00**

P1-1-2203 *Infants infer motor competence from differences in agent-specific relative action costs*  
*Presenting Author: Barbara Pomiechowska*  
*Barbara Pomiechowska: Central European University; Gergely Csibra: Central European University*

P1-2-1745 *When close isn’t enough: Semantic similarity does not facilitate cross-situational word-learning*  
*Presenting Author: Alexander S LaTourrette*  
*Alexander S LaTourrette: University of Pennsylvania; Charles Yang: U Penn; John Trueswell: University of Pennsylvania*

P1-3-2362 *Evaluating unsupervised word segmentation in adults: a meta-analysis*  
*Presenting Author: Joshua K Hartshorne*  
*Wesley Ricketts: Boston College; Joshua K Hartshorne: Boston College*

P1-4-2311 *How Stimuli Availability Effects Novel Noun Generalization in a Free-Choice Design.*  
*Presenting Author: Eleanor Stansbury*  
*Eleanor Stansbury: Université Bourgogne Franche Comté; Arnaud Witt: University of Bourgogne Franche-Comté; Jean-Pierre Thibaut: Université Bourgogne Franche Comté*

P1-5-1198 *The role of vocabulary and executive functions in the comparison process for novel word generalization*  
*Presenting Author: Ph.D. Student Yannick Lagarrigue*  
*Yannick Lagarrigue: University of Bourgogne Franche-Comté; Jean-Pierre Thibaut: University of Bourgogne Franche-Comté*
P1-6-2055 *How words can be learned by observation depends on what is meant by “learned”*

**Presenting Author:** Nina Schoener

Nina Schoener: University of Connecticut; Sara Johnson: University of Connecticut; Sumarga H. Suanda: University of Connecticut

P1-7-1799 *Visual attention and language exposure during everyday activities: an at-home study of early word learning using wearable eye trackers*

**Presenting Author:** Sara E Schroer

Sara E Schroer: UT Austin; Ryan E Peters: Duolingo; Alyssa Yarbrough: UT Austin; Chen Yu: University of Texas at Austin

P1-8-1457 *Is the learning of artificial phonotactic rules interfered with by the concurrent experience of English?*

**Presenting Author:** Suyeon Hwang

Suyeon Hwang: University of Illinois, Urbana-Champaign; Gary Dell: University of Illinois; Cynthia Fisher: University of Illinois, Urbana-Champaign

P1-9 *Vacant*

P1-10-1798 *Can children recognize pedagogical intent in the prosody of speech?*

**Presenting Author:** Igor Bascandziev

Igor Bascandziev: Harvard Graduate School of Education; Michael LaSorsa: Rutgers University, Newark; Patrick Shafto: Rutgers University, Newark; Elizabeth Bonawitz: Harvard Graduate School of Education

P1-11-2378 *Preschoolers’ sensitivity to abstract correlations in the properties of sets and functions*

**Presenting Author:** Nicole Coates

Nicole Coates: Massachusetts Institute of Technology; Max Siegel: MIT; Junyi Chu: Massachusetts Institute of Technology; Melissa Kline: MIT; Josh Tenenbaum: MIT; Laura Schulz: Massachusetts Institute of Technology

P1-12-2194 *Uncovering Children’s Category Representations with MCMCP*

**Presenting Author:** Pablo Leon Villagra

Pablo Leon Villagra: Brown University; Isaac Ehrlich: University of Toronto; Chris Lucas: University of Edinburgh; Daphna Buchsbaum: Brown University

P1-13-1884 *Developmental changes in the semantic part structure of drawn objects*

**Presenting Author:** Holly Huey

Holly Huey: University of California, San Diego; Bria Long: Stanford University; Justin Yang: University of California, San Diego; Kaylee R George: Stanford University; Judith E. Fan: University of California, San Diego

P1-14-2162 *Not just if, but how much: Children and adults use cost and need to make evaluations about generosity across contexts*

**Presenting Author:** Tim Wei-Ting Chao

Mia Radovanovic: University of Toronto; Emily Onyshko: University of Toronto; Tri Quang Huynh: University of Toronto; Yang Leona Liu: University of Toronto; Tim Wei-Ting Chao: University of Toronto; Jessica Sommerville: University of Toronto

P1-15-1846 *What to Do When Someone Expresses a Misconception? A Cross-Cultural Examination of Children’s White Lie-Telling Behaviour*

**Presenting Author:** Roksana Aleksandra Dobrin-De Grace

Roksana Aleksandra Dobrin-De Grace: Toronto Metropolitan University; Lili Ma: Toronto Metropolitan University

P1-16-1194 *Is there an Own-Age Advantage in Talker Recognition?*

**Presenting Author:** Madeleine Yu

Madeleine Yu: University of Toronto; Elizabeth Johnson: University of Toronto

P1-17-1733 *Reasoning About Specific Relations Versus General Associations Shows Protracted Development Throughout Adolescence*

**Presenting Author:** Alexander W McArthur

Alexander W McArthur: University of Toronto; Katharine F. Guarino: Loyola University Chicago; Alison Preston: University of Texas at Austin; Margaret L Schlichting: University of Toronto

P1-18-2095 *Zero in on This: Children are Exposed to Various Concepts of “Zero” Prior to Age Six*

**Presenting Author:** Nicholas A Vest

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

P1-19 *Vacant*

P1-20-1829 *How do young children interpret conditionals?*

**Presenting Author:** Ms/Miss Amina A Shmanova

Amina A Shmanova: University of Toronto; Myrto Grigoroglou: University of Toronto; Patricia Ganea: University of Toronto

P1-21-2342 *Developmental changes in children’s training strategies*

**Presenting Author:** Daniil Serko

Daniil Serko: Max Planck Institute for Human Development; Julia Anne Leonard: Yale University; Azzurra Ruggeri: Max Planck Institute for Human Development
P1-22-1938 Adaptive Learning Technology based on Working Memory Capacity
Presenting Author: Salomé Cojean
Salomé Cojean: Univ. Grenoble Alpes; Nicolas Martin: LIG

P1-23-1679 Test Before Study: Maximizing Adaptive Learning Gains using Prior Knowledge Assessment
Presenting Author: Mr. Thomas Jan Wilschut
Thomas Jan Wilschut: University of Groningen; Florian Sense: University of Granada; Hamutal Kreiner: Ruppin Academic Center; Richard Shillcock: The University of Edinburgh

P1-24-1888 Investigating Expert and Novice Programming Problem Solving
Presenting Author: Maria Vorobeva
Maria Vorobeva: Carleton University; Kasia Muldner: Carleton University

P1-25-2261 Inhibition and Fraction Arithmetic: Insights from Heat-map Strategy Reports
Presenting Author: Freya Kaur
Freya Kaur: University of Maryland, Baltimore County; Charles J Fitzsimmons: Kent State University; Yuika Iwai: University of Maryland, Baltimore County; Jennifer M. Taber: Kent State University; Clarissa A Thompson: Kent State University; Karrie E. Godw

P1-26-1990 Extending the Predictive Performance Equation to Account for Multivariate Performance
Presenting Author: Mr Michael Gordon Collins
Michael Gordon Collins: Air Force; Florian Sense: InfiniteTactics LLC; Michael Krusmark: L-3 Communications; Tiffany Jastrzembski: Wright-Patterson Air Force Base

P1-27 Vacant

P1-28-1610 Investigating the utility of peer tutoring for learning the skill of code tracing
Presenting Author: Ronessa Dass
Ronessa Dass: Carleton University; Kasia Muldner: Carleton University

P1-29-1232 Acceptability of technology involving artificial intelligence among future teachers
Presenting Author: Salomé Cojean
Salomé Cojean: Univ. Grenoble Alpes; Nicolas Martin: LIG

P1-30-2018 Reading left-to-right and right-to-left orthographies: Ocular prevalence and hemispheric priority for orthographic conventions
Presenting Author: Ruomeng Zhu
Ruomeng Zhu: The University of Edinburgh; Mateo Obregón: The University of Edinburgh; Hamutal Kreiner: Ruppin Academic Center; Richard Shillcock: The University of Edinburgh

P2-1-1113 Symmetry as a Representation for Intuitive Geometry?
Presenting Author: Ashok Goel
Wangcheng Xu: Georgia Institute of Technology; Snejana Shegheva: Georgia Institute of Technology; Ashok K. Goel: Georgia Institute of Technology

P2-2-2022 Cognitive and Emotional Impact of Politically-polarized Internet Memes About Climate Change
Presenting Author: Emily Wong
Emily Wong: University of California, Los Angeles; Keith Holyoak: University of California, Los Angeles; Hunter Priniski: UCLA

P2-3 Vacant

P2-5-1795 Interaction dynamics affect the emergence of compositional structure in cultural transmission of space-time mappings
Presenting Author: Dr. Tessa Verhoef
Tessa Verhoef: Leiden University; Esther Walker: -; Tyler Margheritis: University of California, Merced

P2-6-1928 Relative Numerical Context Affects Temporal Processing
Presenting Author: Mr Anuj Shukla
Anuj Shukla: Thapar Institute of Engineering & Technology; Raju Surampudi Bapi: IIIT Hyderabad

P2-7-1845 Relationship of time perception with working memory and number sense using gaussian process regression
Presenting Author: Kamil Szymanski
Kamil Szymanski: SWPS University of Social Sciences and Humanities

P2-8-1643 Deus ex Machina: The Influence of COVID-19 Pandemic on the Young Adults’ Religiosity, Temporal Values, and Time Spatialization across Cultures
Presenting Author: Julio Santiago
Carmen Caliño-Romero: University of Granada; Daniel Casasanto: Cornell University; Sobh Chahboun: Queen Maud University College; Tilbe Göksun: Koç University; Yan Gu: UCL; Alexander Kranjec: Duquesne University; Marc Ouellet: University of Granada; Slavi
P2-9-1712 Spatial organization of tactile localization in adults
Presenting Author: Professor Jeffrey J Lockman
Katarina Patton: Tulane University; Lisa K Chinn: University of Houston; Jeffrey J Lockman: Tulane University

P2-10-1797 Graphicy skills across ages and cultures: a new assessment tool of intuitive statistics’ abilities
Presenting Author: Lorenzo Ciccione
Lorenzo Ciccione: Collège de France - PSL University; Stanislas Dehaene: Neurospin/CEA, Collège de France - PSL University

P2-11-1440 Perceptual Features in Visual Representations: A Content Analysis of Inheritance Diagrams
Presenting Author: Olympia N. Mathiaparanam
Olympia N. Mathiaparanam: University of Rochester; Andrea Donovan: University of Wisconsin-Madison; David Menendez: University of Wisconsin - Madison; Collin Jones: University of Rochester; Seung Heon Yoo: University of Rochester; Martha W Alibali: Unive

P2-12-2288 A model of path integration that connects neural and symbolic representation
Presenting Author: Nicole Sandra-Yaffa Dumont
Nicole Sandra-Yaffa Dumont: University of Waterloo; Jeff Orchard: University of Waterloo; Chris Eliasmith: University of Waterloo

P2-13-1387 Learning Causal Overhypotheses through Exploration in Children and Computational Models
Presenting Author: Eliza Kosoy
Eliza Kosoy: UC Berkeley; Adrian Liu: UC Berkeley; Jasmine Collins: UC Berkeley; David M Chan: University of California, Berkeley; Jessica Hamrick: DeepMind; Sandy Han Huang: DeepMind; Nan Rosemary Ke: Deepmind, Mila; Bryanna Skye Kaufmann: UC Berkeley

P2-14-1234 Explaining Full Response Distributions in Causal Reasoning Tasks: The Bayesian Mutation Sampler
Presenting Author: Ivar R Kolvoort
Ivar R Kolvoort: University of Amsterdam; Leendert van Maanen: Utrecht University

P2-15-1468 Intuitions and Perceptual Constraints on Causal Learning from Dynamics
Presenting Author: Tianwei Gong
Tianwei Gong: University of Edinburgh; Neil R Bramley: University of Edinburgh

P2-16-1550 Absence Makes the Trust in Causal Models Grow Stronger
Presenting Author: Samantha Kleinberg
Samantha Kleinberg: Stevens Institute of Technology; Eren Alay: Stevens Institute of Technology; Jesseeae K. Marsh: Lehigh University

P2-17-1547 Using efficiency to infer the quality of machines
Presenting Author: Claudia G. Sehl
Claudia G. Sehl: University of Waterloo; Stephanie Denison: University of Waterloo; Chris Lucas: University of Edinburgh

P2-18-1946 Powering up causal generalization: A model of human conceptual bootstrapping with adaptor grammars
Presenting Author: Bonan Zhao
Bonan Zhao: University of Edinburgh; Neil R Bramley: University of Edinburgh

P2-19-2241 That was close! A counterfactual simulation model of causal judgments about decisions
Presenting Author: Sarah Wu
Sarah Wu: Stanford University; Shruti Sridhar: Stanford University; Tobias Gerstenberg: Stanford University

P2-20-1398 Self-Explanation of Worked Examples Integrated in an Intelligent Tutoring System Enhances Problem Solving and Efficiency in Algebra
Presenting Author: Nicholas A Vest
Nicholas A Vest: University of Wisconsin-Madison; Elena Marie Silla: University of Delaware; Anna N. Bartel: University of Wisconsin-Madison; Tomohiro Nagashima: Carnegie Mellon University; Vincent Aleven: Carnegie Mellon University; Martha W Alibali: University of Wisconsin-Madison

P2-21-2049 Explain with, rather than explain to: How explainees shape their learning
Presenting Author: Josephine Beryl Fisher
Josephine Beryl Fisher: University of Paderborn; Katharina Rohlfing: Paderborn University; Ed Donnellan: University College London; Angela Grimmering: Paderborn University; Yan Gu: UCL; Gabriella Vigliocco: University College London

P2-22 Vacant

P2-23-1115 Exploring perceptual decoupling in the context of smooth pursuit eye movement
Presenting Author: Ziva Korda
Ziva Korda: University of Graz; Sonja Annerer-Walcher: University of Graz; Christof Koerner: University of Graz; Mathias Benedek: University of Graz
**POSTER SESSIONS**

**P2-24-2313** Joint online inference of material properties and object shape  
*Presenting Author: Vivian C. Paulun*  
Vivian C. Paulun: Massachusetts Institute of Technology; Max Siegel: MIT; Josh Tenenbaum: MIT

**P2-25-2184** Benchmarking mid-level vision with texture-defined 3D objects  
*Presenting Author: Yoni Friedman*  
Yoni Friedman: MIT; Thomas O’Connell: MIT; Max Siegel: MIT; Daniel M Bear: Stanford University; Tuan Anh Le: MIT; Bernhard Egger: Friedrich-Alexander-Universität Erlangen-Nürnberg; Josh Tenenbaum: MIT

**P2-26-1775** Generalizing physical prediction by composing forces and objects  
*Presenting Author: Haoliang Wang*  
Haoliang Wang: University of California, San Diego; Kelsey R Allen: DeepMind; Ed Vul: University of California, San Diego; Judith E. Fan: University of California, San Diego

**P2-27-2250** Can Adults Revise Their Core Beliefs about Objects?  
*Presenting Author: Rongzhi Liu*  
Rongzhi Liu: University of California, Berkeley; Fei Xu: UC Berkeley

**P2-28-1516** What is Noise Music? A Psychometric Approach  
*Presenting Author: Pavan Brar*  
Pavan Brar: Duquesne University; James Schreiber: Duquesne University; Alexander Kranjec: Duquesne University

**P2-29-1126** Trait mindfulness is associated with dynamic transitions in a combination of affective qualities  
*Presenting Author: Mr Winson Fu Zun Yang*  
Winson Fu Zun Yang: Texas Tech University; Miranda Scolari: Texas Tech University

**P2-30-2013** Affect and grammatical anomaly in discourse  
*Presenting Author: Prof Veena Dhar Dwivedi*  
Veena Dhar Dwivedi: Brock University

**P2-31-1375** Looking for a second opinion: Epistemic emotions and the exploration of information sources  
*Presenting Author: Michael Slinger*  
Michael Slinger: Dalhousie University; Stanka A. Fitneva: Queen’s University

**P2-32-1171** Investigating Adults’ Strategy Use During Proportional Comparison  
*Presenting Author: Michelle Hurst*  
Michelle Hurst: University of Chicago; Steven Piantadosi: UC Berkeley

**POSTER SESSION 3 - DECISION MAKING, ATTENTION, PLANNING, AND SEARCH**

**JULY 28TH, 2022 – 15:00 – 16:40**

**P3-1 Vacant**

**P3-2-1684** What causes enhanced processing of high-value items?  
*Presenting Author: Nikolas McNeal*  
Nikolas McNeal: The Ohio State University; Blair Shevlin: The Ohio State University

**P3-3-1362** Exploring the Structure of Predecisional Information Search in Risky Choice  
*Presenting Author: Dr. Florian Bolenz*  
Florian Bolenz: Max Planck Institute for Human Development; Thorsten Pachur: Max Planck Institute for Human Development

**P3-4-1337** Individuals with Mild Cognitive Impairment are impaired in a gambling task  
*Presenting Author: Jeffrey Zemla*  
Jeffrey Zemla: Syracuse University

**P3-6-1709** Effects of reward schedule and pressure on procrastination  
*Presenting Author: PhD candidate Peiyuan Zhang*  
Peiyuan Zhang: New York University; Yijun Lin: University of Florida; Wei Ji Ma: New York University

**P3-7-1891** Procrastination and the Intention-Behavior Gap  
*Presenting Author: Luísa Leonelli de Moraes*  
Luísa Leonelli de Moraes: New York University; Peiyuan Zhang: New York University; Yijun Lin: University of Florida; Wei Ji Ma: New York University

**P3-8-1306** Does Mental Effort Avoidance Depend on the ‘Type of Effort’?  
*Presenting Author: Jake Ryan Embrey*  
Jake Ryan Embrey: The University of New South Wales; Chris Donkin: UNSW; Ben Newell: University of New South Wales

**P3-9-1403** Analyzing the Effect of External Environments on Mind Wandering during a Perceptual-Motor Task  
*Presenting Author: Kazuma Nagashima*  
Ryo Yoneda: Shizuoka University; Jumpei Nishikawa: Shizuoka University; Kazuma Nagashima: Shizuoka University; Junya Morita: Shizuoka University; Tetsuya Terada: Mazda Motor Corporation
P3-10-1204 Order effects in choice are selectively modulated by cognitive load
Presenting Author: Rahul Bhui
Rahul Bhui: MIT

P3-11-1437 User-Generated Star Ratings Are Not Inherently Comparable: How Star Ratings Structure Leads to Poor Choices
Presenting Author: Matt Meister
Matt Meister: University of Colorado Boulder; Nicholas Reinholz: University of Colorado Boulder

P3-12-2322 How Do People Use Star Rating Distributions?
Presenting Author: Jingqi Yu
Jingqi Yu: University of Toronto; David Landy: Netflix; Robert Goldstone: Indiana University

P3-13-2187 The Influence of Mean Product Ratings on Review Judgments and Search
Presenting Author: Daniel Katz
Daniel Katz: University of Chicago; Daniel Bartels: University of Chicago

P3-14-1082 Problematic Smartphone Usage, Objective Smartphone Engagement, and Executive Functions: A Latent Variable Analysis
Presenting Author: Dr Andree Hartanto
Andree Hartanto: Singapore Management University; Yi Jing Chua: Singapore Management University; Frosch Y. X. Quek: Singapore Management University; Joax Wong: Singapore Management University; Nadyanna M Majeed: Singapore Management University; Wei Ming O

P3-15 Vacant

P3-16-1318 Fun as maximizing learnability: Balancing difficulty and prior knowledge
Presenting Author: Franziska Brändle
Franziska Brändle: Max Planck Institute for Biological Cybernetics; Charley M Wu: University of Tübingen; Eric Schulz: Max Planck Institute for Biological Cybernetics

P3-17-1894 Handedness and Creativity: Facts and Fictions
Presenting Author: Mr. Owen P Morgan
Owen P Morgan: Cornell University; Daniel Casasanto: Cornell University

P3-18-1740 Do we mostly use only 10% of our brain? Prevalence and correlates of misconceptions on creativity and neuroscience in a culturally diverse sample.
Presenting Author: Simon Ceh
Simon Ceh: University of Graz; Izabela Lebuda: University of Wrocław; Mathias Benedek: University of Graz

P3-19-1726 A process-oriented approach to creative metacognition
Presenting Author: Mathias Benedek
Mathias Benedek: University of Graz; Izabela Lebuda: University of Graz

P3-20-1250 Generating and evaluating hypothesis testing strategies
Presenting Author: Aba Szollosi
Aba Szollosi: University of Edinburgh; Neil R Bramley: University of Edinburgh

P3-21-1080 Familiarity plays a unique role in increasing preferences for battery electric vehicle adoption
Presenting Author: Alexandre L. S. Filipowicz
Alexandre L. S. Filipowicz: Toyota Research Institute; Matthew L Lee: Toyota Research Institute; David A. Shamma: Toyota Research Institute; Shabnam Hakimi: Toyota Research Institute; Scott Carter: Toyota Research Institute; Rumen Iliev: Toyota Research Institute

P3-22-1444 A Resource-Rational Process Model of Violation of Cumulative Independence
Presenting Author: Ardavan S. Nobandegani
Yiwei Cao: McGill University; Ardavan S. Nobandegani: McGill University; Thomas Shultz: McGill University

P3-23-1441 A Resource-Rational Process-Level Account of Violation of Stochastic Dominance
Presenting Author: Ardavan S. Nobandegani
Feng Xia: McGill University; Ardavan S. Nobandegani: McGill University; Thomas Shultz: McGill University; Rahul Bhui: MIT

P3-24-1116 Choice blindness persists despite explicit instructions to detect false feedbacks: preliminary evidence for a Bayesian model of choice blindness
Presenting Author: Vogel Gabriel
Vogel Gabriel: Lund University; Petter Johansson: Department of Philosophy and Cognitive Science; Lars Hall: Lund University; Philip Parnamets: New York University
P3-25-1697 Formalization and Implementation of ViolEx: An Active Inference perspective
Presenting Author: Mr Dhanaraaj Raghuvear
Dhanaraaj Raghuvear: Philipps-Universitaet; Dominik M Endres: Philipps-Universitaet

P3-26-2185 Dynamic Strategy Selection in Active Function Learning
Presenting Author: Rebekah Gelpi
Nayan Saxena: University of Toronto; Rebekah Gelpi: University of Toronto; Daphna Buchsbaum: Brown University; Chris Lucas: University of Edinburgh

P3-27-1524 Probability matching and antimatching in hide-and-seek
Presenting Author: Peter DiBerardino
Peter DiBerardino: University of Waterloo; Britt Anderson: University of Waterloo

P3-28-2251 The shape of option generation in open-ended decision problems
Presenting Author: Jonathan Phillips
Gokul Srinivasan: Dartmouth College; Jane Acierno: Dartmouth College; Jonathan Phillips: Dartmouth College

P3-29 Vacant

P3-30-1548 Open System Model of Choice and Response Time
Presenting Author: Gunnar Epping
Gunnar Epping: Indiana University Bloomington; Peter Kvam: University of Florida; Tim Pleskac: University of Kansas; Jerome Busemeyer: Indiana University

P3-31-1011 Attentional Momentum Effects on Addition Verification
Presenting Author: Taylor Paige Guba
Taylor Paige Guba: University of Delaware; Emily R. Fyfe: Indiana University

P3-32-2035 Statistical Learning Guides Auditory Attention
Presenting Author: Austin Luor
Austin Luor: Carnegie Mellon University; Frederic Dick: Birkbeck & UCL; Barbara Shinn-Cunningham: Carnegie Mellon University; Lori L Holt: Carnegie Mellon University

P3-33-1792 Measuring social curiosity-driven attentional differences in children with autism using an augmented reality-based phone app
Presenting Author: Samaher F Radwan
Samaher F Radwan: Stanford University; Aaron Kline: Stanford University; Alejandro Galindo: Stanford University; Michael C. Frank: Stanford University; Dennis Wall: Stanford University; Nick Haber: Stanford

P4-1-1546 Inferring friendships from mutual connections
Presenting Author: Claudia G. Sehl
Claudia G. Sehl: University of Waterloo; Ori Friedman: University of Waterloo; Stephanie Denison: University of Waterloo

P4-2-2278 Inferring truth from lies
Presenting Author: Lauren A Oey
Lauren A Oey: University of California, San Diego; Ed Vul: University of California, San Diego

P4-3-1650 Source independence affects argument persuasiveness when the relevance is clear
Presenting Author: Manikya Alister
Manikya Alister: The University of Melbourne; Keith James Ransom: University of Adelaide; Andrew Perfors: University of Melbourne

P4-4-1881 Adults’ Evaluations of Rote and Reflective Teachers
Presenting Author: Ilona Bass
Ilona Bass: Harvard University; Elizabeth Bonawitz: Harvard University; Tomer D. Ullman: Harvard University

P4-5-1307 Representation matters: A PDP model of impression formation and person knowledge
Presenting Author: Professor George S Cree
George S Cree: University of Toronto Scarborough; Ruth M. Yilma: University of Toronto Scarborough; Brian Wu: University of Toronto Scarborough

P4-6-1948 Back to the drawing board: Rethinking potential predictors of preschool executive function in low-income South Africa
Presenting Author: Caylee Cook
Caylee Cook: University of Witwatersrand

P4-8-1021 Comparative Evaluation of Multivariate Coordination Methods to Assess Team Cognition in Multi-Modal Team Interactions.
Presenting Author: Elwira A. Halgas
Elwira A. Halgas: Eindhoven University of Technology; Josette M.P. Gevers: Eindhoven University of Technology; Kyana van Eijndhoven: Tilburg University; Travis J. Wiltshire: Tilburg University; Sonja Rispens: Eindhoven University of Technology; Joyce West
P4-9-2289  Reinforcement Learning, Social Value Orientation, and Decision Making: Computational Models and Empirical Validation
Presenting Author: Peter Duggins
Peter Duggins: University of Waterloo; Terrence C Stewart: University of Waterloo; Chris Eliasmith: University of Waterloo

P4-10-2254  Willingness to Interact Increases When Opponents Offer Specific Evidence
Presenting Author: Benjami$n$ F. Scheve
Benjami$n$ F. Scheve: Yale University; Xiuyuan Zhang: Yale University; Frank Kei$: Yale University

P4-11-1592  Investigating social norms in nonhuman animals
Presenting Author: Simon Fitzpatrick
Kristin Andrews: York University; Simon Fitzpatrick: John Carroll University; Evan Westra: York University

P4-12-1649  Multiple representational theories explain non-human primate perspective-taking: Evidence from computational modeling
Presenting Author: Dr. Daniel J. Horschler
Daniel J. Horschler: Yale University; Marlene Berke: Yale University; Laurie Santos: Yale University; Julian Jara-Ettinger: Yale University

P4-13-2101  From Neurons to Culture: Applying Newell’s Systems Levels to Understanding the Impact of Culture
Presenting Author: Mr. Tristan A. Shaeen
Robert L West: Carleton University; Tristan A. Shaeen: Carleton University

P4-14-1519  Integrating Experience into Bayesian Theory of Mind
Presenting Author: Marlene Berke
Marlene Berke: Yale University; Julian Jara-Ettinger: Yale University

P4-15-1217  Walking in or Talking with Others' Shoes: Studying the Role of Perspective Getting and Mimicry on Interlocutors’ Interpersonal Accuracy and Feelings of Empathy
Presenting Author: Hendrik Engelbrecht
Noa Reijnen: Tilburg University; Debby Damen: Tilburg University; Hendrik Engelbrecht: Tilburg University

P4-16-1663  Some forms of uncertainty may suppress the evolution of social learning
Presenting Author: Matthew Adam Turner
Matthew Adam Turner: Stanford University; Cristina Moya: University of California at Davis; Paul Smaldino: University of California, Merced; James Holland Jones: Stanford University

P4-17-2200  Changing Perspectives: Examining Factors Related To Counterfactual Thinking In Ambiguous Social Judgments
Presenting Author: Betsy Lehman
Betsy Lehman: Michigan Technological University; Elizabeth S. Veinott: Michigan Technological University

P4-18-1568  Choices are treated as probabilistic when the outcome is unknown
Presenting Author: Tiffany Doan
Tiffany Doan: University of Waterloo; Ori Friedman: University of Waterloo

P4-19-2170  Critical transitions in belief and identity
Presenting Author: Tyler Marghetis
Tyler Marghetis: University of California, Merced; Maya A Changaran Kumarath: University of California Merced; Eleanor Brower Schille-Hudson: Indiana University

P4-20-2009  People Have Systematically Different Intuitions about Ownership even in Seemingly Simple Cases
Presenting Author: Xiuyuan Flora Zhang
Xiuyuan Zhang: Yale University; Paul Bloom: University of Toronto; Julian Jara-Ettinger: Yale University

P4-21-1272  A Bayesian Multilevel Analysis of Belief Alignment Effect Predicting Human Moral Intuitions of Artificial Intelligence Judgements
Presenting Author: Ms Yuxin Liu
Yuxin Liu: University of Edinburgh; Adam Moore: University of Edinburgh

P4-22-1565  Cognitive Models as Simulators: The Case of Moral Decision-Making
Presenting Author: Ardavan S. Nobandegani
Ardavan S. Nobandegani: McGill University; Thomas Shultz: McGill University; Irina Rish: University of Montreal

P4-23-2270  Consent and the Doctrine of Double Effect
Presenting Author: Jonathan Phillips
Joshua Ocampo: Dartmouth College; Jonathan Phillips: Dartmouth College

P4-24-2070  Expectations bias moral judgments
Presenting Author: Brittany Schotsch
Derek Powell: Arizona State University; Brittany Schotsch: Arizona State University; Justin Mikell: Arizona State University; Zachary Horne: University of Edinburgh

P4-25-2027  Moral Foundations in Supreme Court Oral Arguments
Presenting Author: Dr Eyal Sagi
Eyal Sagi: University of St. Francis
P4-26-1308 Evolution of moral semantics through metaphorization
Presenting Author: Aida Ramezani
Aida Ramezani: University of Toronto; Jennifer E Stellar: University of Toronto; Matthew Feinberg: University of Toronto; Yang Xu: University of Toronto

P4-27 Vacant

P4-28-1447 Leveraging psychometrics of rational inattention to estimate individual differences in the capacity for cognitive control
Presenting Author: Huang Ham
Huang Ham: University of Pennsylvania; Ivan Grahek: Brown University; Laura A. Bustamante: Princeton University; Nathaniel Daw: Princeton University; Andrew Caplin: New York University; Sebastian Musslick: Brown University

P4-29-2240 Effects of negation and knowledgeable on pragmatic inferences
Presenting Author: Dr Alice Rees
Alice Rees: University of Edinburgh; Hannah Rohde: University of Edinburgh

P4-30-1937 Modeling Social Influences on Indirectness in a Rational Speech Act Approach to Politeness
Presenting Author: Eleonore Lumer
Eleonore Lumer: Bielefeld University; Hendrik Buschmeier: Bielefeld University

POSTER SESSION 5 - LANGUAGE PROCESSING, REPRESENTATION, AND USE
JULY 29TH, 2022 – 10:20 - 12:00

P5-1-1528 Mouse-tracking meta-cognitive ratings of comprehension during garden-path sentences.
Presenting Author: Benjamin Nguyen
Benjamin Nguyen: University of California, Merced; Michael Spivey: UC Merced

P5-2-1345 Islands effects without extraction: the discourse functions of constructions predicts island status
Presenting Author: Adele Goldberg
Nicole Cuneo: Princeton University; Adele Goldberg: Princeton University

P5-3-1757 Satiation effects generalize across island types
Presenting Author: Jiayi Lu
Jiayi Lu: Stanford University; Nicholas Wright: The College of William & Mary; Judith Degen: Stanford University

P5-4-1538 No agreement attraction facilitation observed in Czech: Not even syncretism helps
Presenting Author: Radim Lacina
Radim Lacina: University of Potsdam; Jan Chrómy: Faculty of Arts, Charles University

P5-5-1536 The Comprehension of Broad Focus: Probing Roothian Alternatives
Presenting Author: Radim Lacina
Radim Lacina: University of Potsdam; Sturt Patrick: University of Edinburgh; Nicole Gotzner: University of Potsdam

P5-6-1665 Syntactic harmony arises from a domain-general learning bias
Presenting Author: Jennifer Culbertson
Jennifer Culbertson: University of Edinburgh; Simon Kirby: The University of Edinburgh

P5-7-1289 Investigating the Presence of NegFirst Biases in Learning and Communication
Presenting Author: Danielle Burgess
Danielle Burgess: University of Michigan

P5-8-1067 Pupil Diameter as Implicit Measure to Estimate Sense of Embodiment
Presenting Author: Sara Falcone
Sara Falcone: University of Twente; Liang Zhang: University of Twente; Saket Sachin Pradhan: University of Twente; Ivo V. Stuldreher: TNO; Ioana Cucu: TNO; Martijn Heuvel: TNO; Pieter Simke de Vries: TNO; Kaj Gijsbertse: TNO; Gwenn Englebienne: University
P5-9-1984 LSTM Can Learn Basic Wh- and Relative Clause Dependencies in Norwegian
Presenting Author: Anastasia Kobzeva
Anastasia Kobzeva: Norwegian University of Science and Technology (NTNU); Suhas Arehalli: Johns Hopkins University; Tal Linzen: New York University; Dave Kush: University of Toronto

P5-10-1667 The interplay of situation-formality register congruence and verb-argument relations
Presenting Author: Ana-Maria Płeśca
Ana-Maria Płeśca: Humboldt Universität zu Berlin; Katja Maquate: Humboldt-Universität zu Berlin; Pia Knoeferle: Humboldt University of Berlin; Pia Knoeferle: Einstein Center for Neurosciences Berlin

P5-11-1103 Word-final orthographic priming as a function of word frequency, prime duration, and morphological status
Presenting Author: Jeonghwa Cho
Jeonghwa Cho: University of Michigan; Jonathan R. Brennan: University of Michigan

P5-12-2345 Overloaded Communication as Paternalistic Helping
Presenting Author: Stephanie Stacy
Stephanie Stacy: University of California - Los Angeles; Aishni Parab: University of California, Los Angeles; Max Kleiman-Weiner: Massachusetts Institute of Technology; Tao Gao: UCLA

P5-13-1390 Moving past indirect proxies for language experience: 'Native speaker' and residential history are poor predictors of language behavior
Presenting Author: Lauretta S. P. Cheng
Lauretta S. P. Cheng: University of Michigan; Mathew A. Kramer: University of Michigan; Ria Upreti: University of Texas at Austin; Savithry Namboodiripad: University of Michigan, Ann Arbor

P5-14-1407 Is the Language Familiarity Effect gradual? A computational modelling approach
Presenting Author: Maureen de Seyssel
Maureen de Seyssel: ENS-PSL / EHESS / CNRS / INRIA; Guillaume Wisniewski: Université de Paris; Emmanuel Dupoux: EHESS, CNRS, ENS, INRIA

P5-15-1849 Predicting Fixation Locations in 43 Languages based on Perceptual Constraints and Information Theory
Presenting Author: Talia Kate Shafir
Talia Kate Shafir: University of Toronto; Noam Siegelman: Hebrew University of Jerusalem; Ram Frost: Hebrew University of Jerusalem; Blair C. Armstrong: University of Toronto

P5-16-1549 (How) Do Register and Morphosyntactic Congruence Effects Interact during Sentence Reading? Two Eye-Tracking Pilot Studies
Presenting Author: Valentina Nicole Pescuma
Valentina Nicole Pescuma: Humboldt-Universität zu Berlin; Camilo R. Ronderos: University of Oslo; Aine Ito: National University of Singapore; Katja Maquate: Humboldt-Universität zu Berlin; Pia Knoeferle: Humboldt-Universität zu Berlin; Pia Knoeferle: Humboldt-Universität zu Berlin

P5-17-1986 Activation of biographical information via picture of cultural figures during comprehension: evidence from eye-tracking during reading
Presenting Author: Daniela Palleschi
Daniela Palleschi: Humboldt-Universität zu Berlin; Pia Knoeferle: Humboldt-Universität zu Berlin

P5-18-2047 Effects of task and visual context on referring expressions using natural scenes
Presenting Author: Eleonora Gualdoni
Andreas Mädebach: Universitat Pompeu Fabra; Ekaterina Torubarova: Universitat Pompeu Fabra; Eleonora Gualdoni: Universitat Pompeu Fabra; Gemma Boleda: Universitat Pompeu Fabra

P5-19-1479 Exploring context’s role in the interpretation of novel noun compounds
Presenting Author: Barend Beekhuizen
Tiana V. Simovic: University of Toronto; Barend Beekhuizen: University of Toronto, Mississauga

P5-20-2058 Learning cognitive and linguistic prosodic categories for automatic cross-lingual sign language understanding
Presenting Author: Mert Inan
Mert Inan: University of Pittsburgh; yang zhong: University of Pittsburgh; Sabit Hassan: University of Pittsburgh; Lorna C Quandt: Gallaudet University; Malhe Alikhant: U Pitt

P5-21-1286 Evidence for Availability Effects on Speaker Choice in the Russian Comparative Alternation
Presenting Author: Thomas Clark
Thomas Clark: Massachusetts Institute of Technology; Ethan Gotlieb Wilcox: Harvard University; Edward Gibson: Massachusetts Institute of Technology; Roger Levy: Massachusetts Institute of Technology

P5-22-1351 Influence of Visual Information on Interpersonal Coordination of Head- and Body-Movement During Dyad Conversations
Presenting Author: Kentaro Kodama
Kentaro Kodama: Tokyo Metropolitan University; Daichi Shimizu: Kobe University; Ken Fujiwara: National Chung Cheng University
P5-23 Vacant

P5-24-1467 Cross-cultural differences in the emergence of referential strategies in artificial sign languages
Presenting Author: Danielle Naegeli
Danielle Naegeli: Tilburg University; David Peeters: Tilburg University; Emiel Krahmer: Tilburg University; Marieke Schouwstra: University of Amsterdam; Yasamin Motamedi: University of Edinburgh; Connie De Vos: Tilburg University

P5-25-1347 Communicating understanding of physical dynamics in natural language
Presenting Author: Haoliang Wang
Haoliang Wang: University of California, San Diego; Jane Yang: University of California, San Diego; Ronen Tamari: Hebrew University of Jerusalem; Judith E. Fan: University of California, San Diego

P5-26-1810 The logic of guesses: how people communicate probabilistic information
Presenting Author: Tadeg Quillien
Tadeg Quillien: University of Edinburgh; Chris Lucas: University of Edinburgh

P5-27-1606 Pragmatic comprehension of implicatures — consistency within individuals across types and time
Presenting Author: Margarita Ryzhova
Margarita Ryzhova: Saarland University; Jia Loy: Saarland University; Vera Demberg: Saarland University

P5-28-1982 Backchannel Behavior in Child-Caregiver Zoom-Mediated Conversations
Presenting Author: Kübra Bodur
Kübra Bodur: Aix-Marseille University; Mitja Nikolaus: Aix-Marseille University; Abdellah Fourtassi: Aix-Marseille University; Laurent Prévot: Aix-Marseille University

P5-29-1619 Do I need to repeat myself? Getting to the root of the Other Accent Effect
Presenting Author: Madeleine Yu
Madeleine Yu: University of Toronto; Jessamyn Schertz: University of Toronto Mississauga; Elizabeth Johnson: University of Toronto

P5-30-2213 Where’s the Bingleduff? How speaker accent shapes children’s linguistic processing
Presenting Author: Miss Bailey Agard
Bailey Agard: York University; Thomas St. Pierre: University of Toronto Mississauga; Elizabeth Johnson: University of Toronto

P5-31-1104 A conflict-based model of speech error repairs in humans
Presenting Author: Jack L Burgess
Jack L Burgess: Carnegie Mellon University; Nazbanou Nozari: Carnegie Mellon University

P5-32-1478 Trees neural those: RNNs can learn the hierarchical structure of noun phrases
Presenting Author: Yevgen Matusevych
Yevgen Matusevych: University of Edinburgh; Jennifer Culbertson: University of Edinburgh

P5-33-1572 Modeling Sentence Processing Effects in Bilingual Speakers: A Comparison of Neural Architectures
Presenting Author: Yevgen Matusevych
Rasmus Roslund: University of Edinburgh; Yevgen Matusevych: University of Edinburgh

POSTER SESSION 6 - NEUROSCIENCE, AI, AND HUMAN-COMPUTER INTERACTION
JULY 30TH, 2022 – 8:30 – 10:10

P6-1-2130 The Pure Poet: How Good is the Subjective Credibility and Stylistic Quality of Literary Short Texts Written with an Artificial Intelligence Tool as Compared to Texts Written by Human Authors?
Presenting Author: Vivian Emily Gunser
Vivian Emily Gunser: Leibniz-Institut für Wissensmedien; Steffen Gottschling: Leibniz-Institut für Wissensmedien; Birgit Brucker: Knowledge Media Research Center; Sandra Richter: Deutsches Literaturarchiv Marbach; Dîlan Çakir: Deutsches Literaturarchiv Ma

P6-2-1180 Linking Theories and Methods in Cognitive Sciences via Joint Embedding of the Scientific Literature: The Example of Cognitive Control
Presenting Author: Morteza Ansarinia
Morteza Ansarinia: University of Luxembourg; Paul Schrater: University of Minnesota, Twin Cities; Pedro Cardoso-Leite: University of Luxembourg

P6-3-2000 Intertwining Generalization and Memorization
Presenting Author: Henry Coxe-Conklin
Henry Coxe-Conklin: University of Edinburgh; Kenny Smith: University of Edinburgh
P6-4-1773 Deep networks as cognitive models: the case of reading in different orthographies
Presenting Author: Dr Juan C Valle-Lisboa
Camila Zugarramurdi: Universidad de la Republica; Soledad Assis: Universidad de la Republica; Juan C Valle-Lisboa: Universidad de la Republica

P6-5-2296 Set Size Effects on the P3b in a BCI Speller
Presenting Author: Alessandro D’Amico
Alessandro D’Amico: University of California, San Diego; Virginia de Sa: UC San Diego

P6-6-1081 IPower: Incremental, Probabilistic, Open-World Reference Resolution
Presenting Author: Tom Williams
Will Culpepper: Colorado School of Mines; Thomas A Bennett: Colorado School of Mines; Lixiao Zhu: Colorado School of Mines; Rafael Sousa Silva: Colorado School of Mines; Ryan Blake Jackson: Harvey Mudd College; Tom Williams: Colorado School of Mines

P6-6-1082 Ipower: Incremental, Probabilistic, OpenWorld Reference Resolution
Presenting Author: Tom Williams
Will Culpepper: Colorado School of Mines; Thomas A Bennett: Colorado School of Mines; Lixiao Zhu: Colorado School of Mines; Rafael Sousa Silva: Colorado School of Mines; Ryan Blake Jackson: Harvey Mudd College; Tom Williams: Colorado School of Mines

P6-7-1558 Improving Systematic Generalization Through Modularity and Augmentation
Presenting Author: L.E. Ruis
L.E. Ruis: University College London; Brenden Lake: NYU

P6-8-1421 Biologically-Based Neural Representations Enable Fast Online Shallow Reinforcement Learning
Presenting Author: Dr Madeleine Bartlett
Madeleine Bartlett: University of Waterloo; Terrence C Stewart: University of Waterloo Collaboration Centre; Jeff Orchard: University of Waterloo

P6-9-2156 Efficient exploration of spatial environments through map induction using adaptable compositional map representations
Presenting Author: Sugandha Sharma
Sugandha Sharma: MIT; Aidan Curtis: MIT; Marta Kryven: MIT; Josh Tenenbaum: MIT; Ila Fiete: MIT

P6-10-2182 Simulating progressive neurodegeneration in silico with deep artificial neural networks
Presenting Author: Anup Tuladhar
Anup Tuladhar: University of Calgary; Jasmine Moore: University of Calgary; Zahinoor Ismail: University of Calgary; Nils Forbert: University of Calgary

P6-11-1776 Leveraging Intentional Factors and Task Context to Predict Linguistic Norm Adherence
Presenting Author: Tom Williams
Cailyn Smith: Colorado School of Mines; Charlotte Gorgemans: University of Colorado Boulder; Ruchen Wen: Colorado School of Mines; Saad Elbeleidy: Colorado School of Mines; Sayanti Roy: Colorado School of Mines; Tom Williams: Colorado School of Mines

P6-12-1108 A Property Induction Framework for Neural Language Models
Presenting Author: Kanishka Misra
Kanishka Misra: Purdue University; Julia Rayz: Purdue University; Allyson Ettinger: University of Chicago

P6-13-1290 Predicting Human Similarity Judgments Using Large Language Models
Presenting Author: Raja Marjih

P6-14-1794 Predicting Human Judgments of Relational Similarity: A Comparison of Computational Models Based on Vector Representations of Meaning
Presenting Author: Dr Bryor Sneyfella
Bryor Sneyfella: UCLA; Nicholas Ichien: University of California, Los Angeles; Keith Holyoak: University of California, Los Angeles; Hongjing Lu: UCLA

P6-15 Vacant
P6-20-1227 The relation between gaze and turn-taking in dyadic avatar-mediated conversations  
Presenting Author: Malin Spaniol  
Malin Spaniol: University Hospital Cologne; Alicia Janz: University of Cologne; Mathis Jording: Research Center Jülich; Kai Vogeley: University Hospital Cologne

P6-21-1391 Reward Prediction Error Neurons Implement an Efficient Code for Reward  
Presenting Author: Dr. Heiko H Schuett  
Dongjae Kim: New York University; Heiko H Schuett: New York University; Wei Ji Ma: New York University

P6-22-1237 Hippocampus Engagement Early in Learning Supports Concept Formation  
Presenting Author: Melissa Gumus  
Melissa Gumus: University of Toronto; Michael L. Mack: University of Toronto

P6-23-1301 Using fMRI to study the neural basis of violation-of-expectation  
Presenting Author: Shari Liu  
Shari Liu: MIT; Kirsten Lydic: MIT; Sabrina Hsiao-Ling Piccolo: MIT; Rebecca Saxe: MIT

P6-24-1500 The role of primary motor cortex in inhibition of return: An investigation using transcranial magnetic stimulation  
Presenting Author: Dr Judith Bek  
Judith Bek: University of Toronto; Merryn D Constable: Northumbria University; Matthew Hilchey: University of Toronto; Timothy Welsh: University of Toronto

P6-25-2011 A Model for Optic Flow Integration in Locust Central-Complex Neurons Tuned to Head Direction  
Presenting Author: Kathrin Pabst  
Kathrin Pabst: Philipps-Universitaet; Frederick Zittrell: Marburg University; Uwe Homberg: Philipps Universitaet Marburg; Dominik M Endres: Philipps-Universitaet

P6-26-2090 Individual-specific versus shared cognitive states differently support complex semantic and perceptual judgments  
Presenting Author: Sagana Vijayaragh  
Sagara Vijayaragh: University of Toronto; Margaret L Schlichting: University of Toronto

P6-27-1533 The P600 and P3 ERP components are linked to pupil dilation as correlate of norepinephrine activity  
Presenting Author: Friederike Contier  
Friederike Contier: University of Potsdam; Mathias Weymar: University of Potsdam; Isabell Wartenburger: University of Potsdam; Milena Rabovsky: University of Potsdam

P6-28-1996 A neurophysiological investigation of noisy channel sentences  
Presenting Author: Pratik Nath  
Veena Dhar Dwivedi: Brock University; Pratik Nath: Brock University

P6-29-2299 A dynamic neural field model of phonetic trace effects in speech errors  
Presenting Author: Michael C. Stern  
Michael C. Stern: Yale University; Manasvi Chaturvedi: Yale University; Jason A. Shaw: Yale University

P6-30-1987 Validating child-friendly neuroimaging language localizer in adults  
Presenting Author: Halie Olson  
Halie Olson: MIT; Emily Chen: MIT; Hana Ro: MIT; Somaia Saba: MIT; Kirsten Lydic: MIT; Rebecca Saxe: MIT

P6-31 Vacant

P6-32-1814 Modeling the regular/irregular dissociation in non-fluent aphasia in a recurrent neural network  
Presenting Author: Alexandra Krauska  
Alexandra Krauska: University of Maryland; Naomi H Feldman: University of Maryland

P7-1-2073 Semantically homogenous item displays improve memory for item recall but not item location  
Presenting Author: Xinyi Lu  
Xinyi Lu: University of Waterloo; Mona Zhu: University of Waterloo; Evan Risko: University of Waterloo

P7-2-1451 Examining Prioritization in Working Memory for Verbal and Visual Stimuli  
Presenting Author: Emily Williamson  
Emily Williamson: Mississippi State University; Jarrod Moss: Mississippi State University

P7-3-1488 Investigating the Effect of Synthetic Voice Naturalness on Gist Memory  
Presenting Author: Ashley R Keaton  
Ashley R Keaton: University of California, Davis; Georgia Zellou: University of California, Davis

P7-4 Vacant
P7-5-1751 Using “Semantic Scent” to Predict Item-Specific Clustering and Switching Patterns in Memory Search

Presenting Author: Larry Zhang
Larry Zhang: Indiana University Bloomington; Michael N. Jones: Indiana University

P7-6 Vacant

P7-7-1945 Thinking Faster and Slower: A Resource-Rational Model of Working Memory Encoding

Presenting Author: Msc. Joost de Jong
Joost de Jong: University of Groningen; Hedderik van Rijn: University of Groningen; Elkan Akyürek: University of Groningen

P7-8-1452 Working Memory Capacity Predicts More Effective Problem Space Exploration

Presenting Author: Xinyu Xie
Xinyu Xie: Mississippi State University; Jarrod Moss: Mississippi State University

P7-9-2119 Forward and Backward Serial Recall

Presenting Author: Matthew Dougherty
Matthew Dougherty: University of Pennsylvania; Michael Kahana: University of Pennsylvania; David J. Halpern: University of Pennsylvania

P7-10-1300 Semantic Working Memory Predicts Relative Clause Sentence Comprehension: A Case Series Approach

Presenting Author: Rachel Zahn
Rachel Zahn: Rice University; Autumn Horne: Rice University; Oscar Najera: University of Texas at Austin; Randi Martin: Rice University

P7-11-2312 Constructing Individualized Computational Models for Dementia Patients

Presenting Author: Peggy Fidelman
Peggy Fidelman: The University of Texas at Austin; Uli Grasemann: The University of Texas at Austin; Claudia Peñaloza: University of Barcelona; Michael Scimeca: Boston University; Yakeel T. Quiroz: Massachusetts General Hospital; Swathi Kiran: Boston Univ

P7-12-1364 Memory without Imagery: No Evidence of Visual Working Memory Impairment in People with Aphantasia

Presenting Author: Kathryn F. Knight
Kathryn F. Knight: University of Exeter; Fraser Milton: University of Exeter; Adam Zbynuk James zeman: University of Exeter Medical School

P7-13-1252 Compositional Generalization in a Graph-based Model of Distributional Semantics

Presenting Author: Shufan Mao
Shufan Mao: University of Illinois at Urbana Champaign; Philip A Huebner: University of Illinois, Urbana-Champaign; Jon Willits: University of Illinois at Urbana-Champaign

P7-14-1491 Robustness of graph theoretic representations of semantic networks

Presenting Author: Isabella Destefano
Maria Robinson: University of California San Diego; Isabella Destefano: University of California, San Diego; Timothy F. Brady: University of California, San Diego; Ed Vul: University of California, San Diego

P7-15-2267 Representations of emotion concepts: Comparison across pairwise, appraisal feature-based, and word embedding-based similarity spaces

Presenting Author: Jonathan Phillips
Mijin Kwon: Dartmouth College; Tor Wager: Dartmouth College; Jonathan Phillips: Dartmouth College

P7-16-1190 Talker identification as a categorization problem

Presenting Author: Casey L Roark
Casey L Roark: University of Pittsburgh; Gangyi Feng: The Chinese University of Hong Kong; Bharath Chandrasekaran: University of Pittsburgh

P7-17-2316 Language-induced categorical perception of faces?

Presenting Author: Ana Chkhaidze
Ana Chkhaidze: UC San Diego; Lars Strother: University of Nevada, Reno

P7-18 Vacant

P7-19-2343 The paradox of learning categories from rare examples: a case study of NFTs & The Bored Ape Yacht Club

Presenting Author: Jordan W. Suchow
Jordan W. Suchow: Stevens Institute of Technology; Vahid Ashrafimoghad: Stevens Institute of Technology

P7-20-2176 Overlapping semantic representations of sign and speech in novice sign language learners

Presenting Author: Megan E. Hillis
Megan E. Hillis: Dartmouth College; Brianna Aubrey: Dartmouth College; Julien Blanchet: Dartmouth College; Qijia Shao: Dartmouth College; Xia Zhou: Dartmouth College; Devin Balkcom: Dartmouth College; David J. M. Kraemer: Dartmouth College
P7-21-1642 Lexical Categorization Variables for English and Mandarin Quantify Ambiguity in Object Naming
Presenting Author: Gabrielle Ma
Gabrielle Ma: Swarthmore College; Benjamin D. Zinszer: Swarthmore College

P7-22-1189 Coding Strategies in Memory for 3D Objects: The Influence of Task Uncertainty
Presenting Author: Christopher Bates
Christopher Bates: Harvard University; Samuel Gershman: Harvard University

P7-24-2266 What comes to mind? Samples from relevance-based feature spaces
Presenting Author: Jonathan Phillips
Tracey Mills: Dartmouth College; Jonathan Phillips: Dartmouth College

P7-25-1763 Testing the testing effect with featural and relational categories
Presenting Author: Enoch Sumakpoyaa
Enoch Sumakpoyaa: Syracuse University; Daniel Corral: Syracuse University

P7-27-1239 Verbal Labels Affect Holistic and Analytic Thinking Styles in Native English Speakers
Presenting Author: Dr. Lang Chen
Meg Richter: Santa Clara University; Birgit Koopmann-Holm: Santa Clara University; Lang Chen: Santa Clara University

P7-28-1401 Culture and Category Learning: The Relationship between Analytic and Holistic Thinking Styles
Presenting Author: Ms Neha Khemani
Neha Khemani: Western University; Ana C Ruiz Pardo: Western University; John Paul Minda: The University of Western Ontario

P7-29-1296 Category learning across the menstrual cycle: Learning exceptions to the rule varies by hormonal milieu
Presenting Author: Mateja Perovic
Mateja Perovic: University of Toronto; Emily M. Heffernan: University of Toronto; Gillian Einstein: University of Toronto; Michael L. Mack: University of Toronto

P7-30-2054 An In Silico Exploration of the Effect of Surprising Information on Hippocampal Representations
Presenting Author: Emily M. Heffernan
Emily M. Heffernan: University of Toronto; Michael L. Mack: University of Toronto

P7-31-1169 The emergence of discrete and systematic communication in a continuous signal–meaning space
Presenting Author: Alica M Chen
Alica M Chen: Harvard University; Matthias Hofer: MIT; Moshe Poliak: Harvard University; Roger Levy: Massachusetts Institute of Technology; Noga Zaslavsky: MIT

P7-32-1772 Identifying concept libraries from language about object structure
Presenting Author: Catherine Wong
Catherine Wong: Massachusetts Institute of Technology; William P McCarthy: University of California, San Diego; Gabriel Grand: MIT; Yoni Friedman: MIT; Josh Tenenbaum: MIT; Jacob Andreas: Massachusetts Institute of Technology; Robert Hawkins: Princeton Un

P8-1-1229 A Perceptually Grounded Neural Dynamic Architecture Establishes Analogy Between Visual Object Pairs
Presenting Author: M.Sc. Matthis E Hesse
Matthis E Hesse: Fakultät für Philosophie und Erziehungswissenschaft; Daniel Sabinasz: Institut für Neuroinformatik; Gregor Schöner: Ruhr-Universität Bochum

P8-2-1517 Impact of Semantic Representations on Analogical Mapping with Transitive Relations
Presenting Author: Bryce Linford
Bryce Linford: UCLA; Nicholas Ichien: University of California, Los Angeles; Keith Holyoak: University of California, Los Angeles; Hongjing Lu: UCLA

P8-3-1893 Maximum Entropy Function Learning
Presenting Author: Simon Segert
Simon Segert: Princeton University; Jonathan Cohen: Princeton University

P8-4-1322 Transfer of Learning-Guided Cognitive Control through Congruency Cues: a study involving two variants of Flanker task
Presenting Author: Nicola Vasta
Nicola Vasta: University of Trento; Barbara Treccani: University of Trento; Claudio Mulatti: Università di Trento
P8-5-2199 Catastrophic interference in neural network models is mitigated when the training data reflect a power-law environmental structure

Presenting Author: Sibley Lyndgaard
Sibley Lyndgaard: Georgia Institute of Technology; Zachary R Tidler: Georgia Institute of Technology; Lucas Provine: Georgia Institute of Technology; Sashank Varma: Georgia Tech

P8-6-1339 Integration of Event Experiences to Build Relational Memory in the Human Brain

Presenting Author: Dr Anna Leshinskaya
Anna Leshinskaya: UC Davis; Mitchell A Nguyen: University of California, Davis; Charan Ranganath: University of California, Davis

P8-7-1594 Pre-boundary lengthening and pause signal boundaries in action sequences

Presenting Author: Matt Hilton
Matt Hilton: University of Potsdam; Isabell Wartenburger: University of Potsdam; Julius Verrel: University of Lübeck; Birgit Elsner: University of Potsdam

P8-8-1696 Event Segmentation In Story Listening Using Deep Language Models

Presenting Author: Dr. Manoj Kumar
Manoj Kumar: Princeton University; Ariel Goldstein: Princeton University; Sebastian Michelmann: Princeton University; Jeffrey M. Zacks: Washington University in Saint Louis; Kenneth Norman: Princeton University; Uri Hasson: Princeton University

P8-9-2271 Name that state: How language affects human reinforcement learning

Presenting Author: Angela Radulescu
Angela Radulescu: New York University; Wai Keen Vong: New York University; Todd M Gureckis: New York University

P8-10-1631 A computer mouse-based throwing task to study perceptual-motor skill learning in humans and machines

Presenting Author: Dr. Patrick Nalepka
Patrick Nalepka: Macquarie University; Georgina Schell: Macquarie University; Gaurav Patil: Macquarie University; Michael J Richardson: Macquarie University

P8-11-2232 Inferring object interactions from scraping and rolling sounds

Presenting Author: Vinayak Agarwal
Vinayak Agarwal: MIT; Josh McDermott: Massachusetts Institute of Technology

P8-12-1263 Exploiting Embodied Simulation to Detect Novel Object Classes Through Interaction

Presenting Author: Nikhil Krishnaswamy
Nikhil Krishnaswamy: Colorado State University; Sadaf Ghaffari: Colorado State University

P8-13 Vacant

P8-14-2351 Looking into the past: Eye-tracking mental simulation in physical inference

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

P8-15-2188 The role of body representations in higher order cognition

Presenting Author: Miss Suesan G MacRae
Suesan G MacRae: University of Northern British Columbia; Heath Matheson: University of Northern British Columbia

P8-16-2280 Comparisons in Adaptive Perceptual Category Learning

Presenting Author: Victoria L Jacoby
Victoria L Jacoby: University of California, Los Angeles; Christine M. Massey: University of California, Los Angeles; Everett Mettler: University of California, Los Angeles; Philip J Kellman: University of California, Los Angeles

P8-17-1927 Bayesian gates: a probabilistic modeling tool for temporal segmentation of sensory streams into sequences of perceptual accumulators

Presenting Author: Mamady Nabe
Mamady Nabè: Université Grenoble Alpes; Jean-Luc Schwartz: CNRS; Julien Diard: CNRS - Université Grenoble Alpes

P8-18-1847 Dimension-Based Statistical Learning in Older Adults

Presenting Author: Alana Hodson
Alana Hodson: Carnegie Mellon University; Mishaela DiNino: Carnegie Mellon University; Barbara Shinn-Cunningham: Carnegie Mellon University; Lori L Holt: Carnegie Mellon University

P8-19-1556 The Treachery of Images: Objects, Pictures, Words and the Role of Affordances in Similarity Judgements

Presenting Author: Robyn Erica Wilford
Robyn Erica Wilford: Western University; Vicente Raja: Western University; Meghan Hershey: Franklin & Marshall College; Michael Anderson: University of Western Ontario

P8-20-1754 Combining mental simulation and abstract reasoning explains people’s reaction time in an intuitive physics task

Presenting Author: Felix Anthony Sosa
Felix Anthony Sosa: Harvard University; Samuel Gershman: Harvard University; Tomer Ullman: Harvard University
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P8-21-2056 **Eliciting Human Beliefs using Random Generation**
**Presenting Author:** Pablo Leon Villagra
Pablo Leon Villagra: Brown University; Lucas Castillo: University of Warwick; Nick Chater: University of Warwick; Adam Sanborn: University of Warwick

P8-22-1102 **Imprecise Probabilistic Inference from Sequential Data**
**Presenting Author:** Dr. Arthur Prat-Carrabin
Arthur Prat-Carrabin: Columbia University; Michael Woodford: Columbia University

P8-23-2120 **Bridging cultural and cognitive perspectives on similarity reasoning**
**Presenting Author:** Caren Walker
Alexandra Carstensen: UC San Diego; Chiara Saponaro: University of Milano-Bicocca; Michael C. Frank: Stanford University; Caren M. Walker: University of California San Diego

P8-24-2129 **Framing biodiversity Conceptions**
**Presenting Author:** Laura Leon Perez
Laura Leon Perez: Geneva University; Catherine Audrin: University of Teacher Education Lausanne; Emmanuel Sander: University of Geneva

P8-25-1819 **Addressing homelessness in LA County by combat or cure: Examining the effect of conceptual metaphor on reasoning**
**Presenting Author:** Shervin Nosrati
Shervin Nosrati: California State University Northridge; Tara Nicole Lee: California State University, Northridge; Nicole Abboud: California State University Northridge

P8-26-2160 **The Effects of Reflective Reasoning on Philosophical Dilemmas**
**Presenting Author:** William T. Ervin
William T. Ervin: Syracuse University; Daniel Corral: Syracuse University

P8-27-1634 **The Compelling Complexity of Conspiracy Theories**
**Presenting Author:** Jessecae K. Marsh
Jessecae K. Marsh: Lehigh University; Cayse Coachys: Lehigh University; Samantha Kleinberg: Stevens Institute of Technology

P8-28-1804 **Loaded Language and Conspiracy Theorizing**
**Presenting Author:** Emily Klein
Emily Klein: RPI; James Hendler: RPI

P8-29-1593 **All Animals are Conscious: A New Premise in the Cognitive Science of Consciousness**
**Presenting Author:** Kristin Andrews
Kristin Andrews: York University

P8-30-1477 **Modelling Forgetting at Different Timescales**
**Presenting Author:** Maarten van der Velde
Maarten van der Velde: University of Groningen; Florian Sense: University of Groningen; Jelmer Borst: University of Groningen; Hedderik van Rijn: University of Groningen

P8-31-1420 **Modeling the Learning and Use of Probability Distributions in Chimpanzees and Humans**
**Presenting Author:** Dr. Ardavan Nobandegani
Thomas Shultz: McGill University; Ardavan S. Nobandegani: McGill University