Fri 13:20 - Poster Session #2

Improving Number Foundations in Preschoolers: ANS versus Symbolic Knowledge
   Jo Van Herwegen, Hiwet Costa, Bethany Nicholson, Chris Donlan

Children's Familiarity Preference in Self-directed Study Improves Recognition Memory
   Katherine Adams, George Kachergis, Doug Markant

Statistical Learning and Orthographic Preferences among Kindergarten and First Native Arab Graders
   Haitham Taha

Infusing Cognitive Science Content in Teacher Preparation
   Julie Booth

The Interaction of Worked-Examples/ Self-Explanation Prompts and Time on Algebra Conceptual Knowledge
   Kelly McGinn, Julie Booth, Laura Young

Language input and development during a year in an early intervention classroom
   Lynn Perry, Emily Prince, Adriana Valtierra, Camila Rivero-Fernández, Mary Anne Ullery, Lynne Katz, Daniel Messinger

How and when does the syllable become a reading unit? Developmental evidence in French children
   Norbert Maïonchi-Pino, Virginie Loiseau

The Relationship Between Executive Functions and Science Achievement
   Drake Bauer, Sashank Varma, Keisha Varma, Martin Van Boekel, Alyssa Worley, Jean-Baptiste Quillien, Tayler Loiselle, Purav Patel

Interleaving area problems in the 4th grade classroom: What is the role of context and practice?
   Rachael Todaro, Bradley Morris

When Less Isn’t More: A Real-World Fraction Intervention Study
   Tasha Posid, Vladimir Sloutsky

Training Graph Literacy: Developing the RiskLiteracy.org Outreach Platform
   Vincent Ybarra, Edward Cokely, Cody Adams, Margo Woller-Carter, Jinan Allan, Adam Feltz, Rocio Garcia-Retamero

A Two-Stage Model of Solving Arithmetic Problems
   Vladimir Glebkin, Alexander Kovtunenko, Ekaterina Krysova

A Cognitive Model of Social Influence
   Greg Trafton, Malcolm McCurry, Kevin Zish, Laura Hiatt, Sunny Khemlani

Fast and Easy: Approximating Uniform Information Density in Language Production
   Jesus Calvillo
A Theory of Resonance: Towards an Ecological Cognitive Architecture  
Vicente Raja

Five-Year-Old Children Transfer a Metacognitive Strategy to a Novel Task  
Allison O'Leary, Vladimir Sloutsky

The Structure of Young Children’s Numerical and Spatial Abilities  
Christopher Young, Stephen Raudenbush, Britney Fraumeni, Susan Levine

Improving Perceptual Reasoning in School Children through Chess Training  
Ebenezer Joseph, Sumathi Chandrasekaran, Uma T.r., Veena Easvaradoss

Learning Object Names from Visual Pervasiveness: the Visual Statistics Predict  
Elizabeth Clerkin, Chen Yu, Linda Smith

Varieties of Numerical Estimation: A Unified Framework  
Jike Qin, Dan Kim, John Opfer

Preschoolers and Infants Calibrate Persistence from Adult Models  
Julia Leonard, Max Kleiman-Weiner, Yuna Lee, Josh Tenenbaum, Laura Schulz

Investigating Sensitivity to Shared Information and Personal Experience in Children’s Use of Majority Information  
Kay Otsubo, Andrew Whalen, Daphna Buchsbaum

Learning in the Wild: Real-World Experiences Shape Children’s Knowledge Organization  
Layla Unger, Anna Fisher

The relationship between fairness, cognitive control, and numerical encoding  
Nadia Chernyak, Peter Blake

Talking to Ourselves to Engage Control? Testing Developmental Relations Between Self-directed Speech, Cognitive Control and Talkativeness  
Sabine Doebel, Yuko Munakata

Pragmatics Influence Children’s Use of Majority Information  
Theresa Pham, Jane C Hu, Daphna Buchsbaum

Slow Change: The Visual Context for Real World Learning  
Charlene Tay, Linda Smith, Chen Yu

Interruptions Reduce Confidence Judgments: Predictions of Three Sequential Sampling Models  
Kevin Zish, Malcolm McCurry, Nathan Aguiar, J. Gregory Trafton

Spatial language: Meaning, use, and lexical choice  
Kristen Johannes, Barbara Landau

Jupyter Notebooks and Nbconvert: Reproducible Workflows for Computational Cognitive Science
From Words to Sentences & Back: Characterizing Context-dependent Meaning Representations in the Brain
Nora E Aguirre-Celis, Manuel Valenzuela-Rendon, Risto Miikkulainen

Human Learning in Atari
Pedro Tsividis, Thomas Pouncy, Jacqueline Xu, Joshua Tenenbaum, Samuel Gershman

An immersive binaural horizon for sonic data analytics
Richard Windeyer, Dan MacDonald, David Steinman, Ambrose Li, Peter Coppin

Applications of Cognitive Science to Enhancing Scholarly Communication
Purav Patel

Indirection Explains Flexible Tuning of Neurons in Prefrontal Cortex
David Noelle

Learning Temporal Generative Neural Codes for Biological Motion Perception and Inference
Fabian Schrodt, Martin V. Butz

Predicting Individual Differences in Working Memory Training Gain: A Machine Learning Approach
Shafee Mohammed, Benjamin Katz, Chelsea Parlett, Martin Buschkuehl, Susanne Jaeggi

A Spiking Neural Bayesian Model of Life Span Inference
Sugandha Sharma, Aaron Voelker, Chris Eliasmith

Application of fuzzy logic in dyslexia user modelling to design customizing assistive technology
Tereza Pařilová, Eva Hladká

A Study on the Impact of Chess Training on Creativity of Indian School Children

Poverty of materials makes recursive combination operation evolvable
Genta Toya, Takashi Hashimoto

A Data-Driven Approach for Making Analogies
Mei Si, Craig Carlson

Finding Creative New Ideas: Human-Centric Mindset Overshadows Mind-Wandering
Yung-Yi Juliet Chou, Barbara Tversky

Conversational topic connectedness predicted by Simplicity Theory
Jean-Louis Dessalles

Interactive Communicative Inference
Larry Muhlstein

Modeling Comprehension Processes via Automated Analyses of Dialogism
Planning in Action: Interactivity Improves Planning Performance
Emma Henderson, Gaelle Vallee-Tourangeau, Frederic Vallee-Tourangeau

Metacognitive Monitoring of Internal and External Storage and Retrieval
Evan Risko, Connor Gaspar, Dave McLean, Tim Dunn, Derek Koehler

Fake News and False Corroboration: Interactivity in Rumor Networks
Michael Spivey

The impact of the Digital Age in Moral Judgments
Albert Barque-Duran, Emmanuel Pothos, James Yearsley, James Hampton

Risky Decision Making for Medications: Age and Social Influence Effects
Amy Wing-Lam Chong, Michael Bixter, Wendy Rogers

Choosing while Losing: The Effects of Valence and Relative Magnitude on Decision Dynamics.
Avril Hand, Denis O'Hora, Rick Dale, Petri Piironen

The role of presentation order and orientation on information search and evaluations: An eye-tracking study
Claire Heard, Tim Rakow, Tom Foulsham

It is new, but will it be good? Context-driven exploration of novel options
Hrvoje Stojic, Eric Schulz, Maarten Speekenbrink

Intolerance to uncertainty is associated with diminished exploration
Jennifer Lenow, Nathaniel Daw, Elizabeth Phelps

Nudging Problematic Smartphone Use to a Lower Level
Lauri Palokangas, Jyrki Suomala

Perceptions of Psychological Momentum in Basketball
Thomas Hilbig, Matthew Welsh, Paul Delfabbro

On the Detection of “Alternative Facts” in Environmental Messages: The Effects of a Sequential versus a Simultaneous Presentation Format
Mona Guath, Peter Juslin

Adaptive response priors in context-dependent decision-making
Olga Lositsky, Michael Shvartsman, Robert C. Wilson, Jonathan D. Cohen

Belief Digitization in Economic Prediction
Samuel Johnson, Faith Hill

The Use of Ambiguous Messages as a Strategy to Appeal to Multiple Decision Makers
Devika Banerji, Torsten Reimer, Chris Roland
Behavioral Dynamics and Action Selection in a Joint Action Pick-and-Place Task  
Maurice Lamb, Tamara Lorenz, Stephen Harrison, Rachel Kallen, Ali Minai, Michael Richardson

Fitting a Stochastic Model to Eye Movement Time Series in a Categorization Task  
Paul Tupper, Thuan Pham Nguyen, Yunlong Nie, Jiguo Cao, Liangliang Wang

Bridging Visual Working Memory Research from Infancy through Adulthood with Dynamic Neural Field Modeling  
Vanessa Simmering, Sammy Perone

On the road to … somewhere? Change-blindness in event description tasks is informative about the interrelation between visual perception and language planning  
Johannes Gerwien, Ines Marberg

The time course of Intentional Binding  
Miriam Ruess, Roland Thomaschke, Andrea Kiesel

Endpoints and Midpoints in Event Perception  
Yue Ji, Anna Papafragou

A model of cultural co-evolution of language and mindreading  
Marieke Woensdregt, Simon Kirby, Chris Cummins, Kenny Smith

Effects of transmission perturbation in the cultural evolution of language  
Thomas Brochhagen, Michael Franke

Comparison of directed gaze during vocalizations in bonobo and human infants  
Ulrike Griebel, Josep Call, Eugene Buder, D. Kimbrough Oller

How do speakers coordinate planning and articulation? Evidence from gaze-speech lags.  
Chiara Gambi, Matthew Crocker

Eye movement-based probabilistic models for physical scene understanding  
Eghbal Hosseini, Eli Pollock, Tobias Gerstenberg

Age-related top-down and bottom-up guidance on eye movements when searching in real-world scenes  
Hanane Ramzaoui, Sylvane Faure, Sara Spotorno

An Exploratory Study on Remote Associates Problem Solving: Evidence of Eye Movement Indicators  
Po-Sheng Huang, Shu-Ling Peng, Jon-Fan Hu

Tracking the temporal course of counterfactual understanding  
Isabel Orenes, Juan Antonio Garcia Madruga, Isabel Gómez-Veiga, Orlando Espino, Ruth Byrne

Reconsideration on Linking Eye-movement Data with Argument Realization  
Yujing Huang, Laine Stranahan, Jesse Snedeker

Data Driven Eye Gaze Path Segmentation  
Joseph Houpt, Mary Frame, Leslie Blaha
The time course of colour guidance in realistic scene search
    Sara Spotorno, Ben Tatler

A time-series eye-fixation analysis of the similarity-compromise effect in multi-alternative choice
    Tsuzuki Takashi, Chiba Itsuki

Convincing Conversations: Using a Computer-Based Dialogue System to Promote a Plant-Based Diet
    Emma Zaal, Gregory Mills, Afke Hagen, Carlijn Huisman, John Hoeks

Do you forgive past mistakes of virtual assistant? A study on changing impressions of virtual character when using
its assistance multiple times
    Masahide Yuasa

Decoding Partner Type in Human-Agent Negotiation using functional MRI
    Eunkyung Kim, Jared Gilbert, Charlotte Horowitz, Jonathan Gratch, Jonas Kaplan, Morteza Dehghani

Artificial Intelligent Agents Augment Their Ontologies and Lexicons in Conversations with People
    Sergei Nirenburg, Marjorie McShane

Compound effects of expectations and actual behaviors in human-agent interaction: Experimental investigation using
the Ultimatum Game
    Yugo Hayashi, Ryo Okada

How infants map nonce phrases to scenes with objects and predicates.
    Angelica Buerkin-Pontrelli, Daniel Swingley

The effect of acute physical activity on children’s memory for language
    Carla Pastorino Campos, John Williams

The acquisition of verb morphology in Polish and Finnish: Model and experiment
    Felix Engelmann, Joanna Kolak, Sonia Granlund, Ben Ambridge, Julian Pine, Anna Theakston, Elena Lieven

What Do We Learn from Dyslexia and Second Language Learners on the Difference Between Long-term Frequency
and Short-term Sequence Repetition Effects?
    Eva Kimel, Itay Lieder, Luba Daikhin, Hilla Jacoby, Atalia Hai Weiss, Merav Ahissar

Discourse continuity promotes children’s learning of new objects labels
    Jessica F. Schwab, Casey Lew-Williams

Children Learn Words Better From One Storybook Illustration at a Time
    Zoe Flack, Jessica Horst

Gestural Hesitation Reveals Children’s Competence on Multimodal Communication: Emergence of Disguised
Adaptor
    Kazuki Sekine

Pragmatic aspects of spatial language acquisition and use across languages
    Myrto Grigoroglou, Megan Johanson, Anna Papafragou
Is infants’ mutual exclusivity response based on preference to novelty or non-name of an object?
   Qinmei Xu, Ye Tao, Yuyan Wang, Jon-Fan Hu

Exploring the relations between oral language and reading instruction in a computational model of reading
   Ya-Ning Chang, J. S. H. Taylor, Kathleen Rastle, Padraic Monaghan

The Meanings of Morality: Investigating the psychometric properties of distributed representations of latent moral concepts
   Joe Hoover, Katie Horton, Morteza Dehghani

Path salience in motion events from verbal and visual languages
   Neil Cohn, Vivian Wong, Kaitlin Pederson, Ryan Taylor

Head and Heart Metaphors for Moral Decision Making: Conceptual or Communicative?
   Rose K. Hendricks, Paul H. Thibodeau

When reading is harder than a mother kucker: Top-down effects of the taboo-ness on novel word pronunciation
   Sarah Kucker, Lynn Perry

Solving the Puzzle to Reach the Summit: Using Metaphor to Gauge Public Perceptions of Science
   Paul Thibodeau, Stephen Flusberg, Kevin Holmes

Weight matters: The role of physical weight in non-physical language across age and culture
   Tomer Ullman, Santiago Alonso-Diaz, Stephen Ferrigno, Sarina Zahid, Celeste Kidd

Refuting Overconfidence: Refutation Texts Prevent Detrimental Effects of Misconceptions on Text Comprehension and Metacomprehension Accuracy in the Domain of Statistics
   Anja Prinz, Stefanie Golke, Jörg Wittwer

Anticipation Effect after Implicit Distributional Learning
   Danlei Chen, Carol Jew, Benjamin Zinszer, Rajeev Raizada

Discovering simple heuristics from mental simulation
   Frederick Callaway, Jessica Hamrick, Tom Griffiths

Boosting Knowledge-Building with Cognitive Dialog Games
   Jonathan Herberg, Ilker Yengin, Praveena Satkunarajah, Margaret Tan

Algebra is not like trivia: Evaluating self-assessment in an online math tutor
   Rachel Jansen, Anna Rafferty, Tom Griffiths

Investigating the predictions of a memory-based account of statistical learning
   Sandrine Girard, Erik Thiessen

Practicing an auditory working memory task recruits lower-level auditory areas in a task-specific manner
   Tamar Malinovitch, Philippe Albouy, Merav Ahissar, Robert Zatorre

Probability matching as a cognitive basis of cultural drift
People toss coins with more vigor when the stakes are higher
Gregory Dam

Three-Way Bindings in Associative Recognition
Hyungwook Yim, Adam Osth, Vladimir Sloutsky, Simon Dennis

Exploring Functions of Working Memory Related to Fluid Intelligence: Coordination and Relational Integration
Joel Edward Bateman, Damian Patrick Birney, Vanessa Loh

Don't forget to bind: Memory binding and interference in development
Kevin Darby, Vladimir Sloutsky

Representing the Richness of Linguistic Structure in Models of Episodic Memory
Melody Dye, Michael Ramscar, Michael Jones

Simple and Complex Working Memory Tasks Allow Similar Benefits of Information Compression
fabien mathy, mustapha chekaf, Nelson Cowan

Rationalizing subjective probability distortions
Nisheeth Srivastava, Ed Vul

Peculiarity doesn't trump ordinariness: On recognition memory for exceptions to the category rule
Olivera Savic, Vladimir Sloutsky

Comparison strategies in the change detection task are influenced by task demands.
Rob Udale, Simon Farrell, Chris Kent

Repetition improves memory by strengthening existing traces: Evidence from paired-associate learning under midazolam
Vencislav Popov, Lynne Reder

Tangible rhythm: Sensorimotor representations of metrical structure and learning musical rhythm with gesture
Courtney Hilton, Micah Goldwater, Michael Jacobson

How does Music Reading Expertise Modulate Visual Processing of English Words? An ERP study
Tze Kwan Li, Hei Yan Veronica Chan, Luhe Li, Janet H. Hsiao

Recruitment of the motor system in the perception of handwritten and typed characters
Chelsea Gordon, Ramesh Balasubramaniam

Dynamic and multiplexed networks for working memory
Elizabeth Johnson, Robert Knight

Biological and Artificial Perspectives on Metacognition
Katherine Wagner
Hand, spoon or toothbrush? Towards the understanding of the neural underpinnings of affective touch in 5 months-old infants.
Laura Pirazzoli, Sarah Lloyd-Fox, Mark H. Johnson, Teodora Gliga

Neural Phase Synchrony on Understanding Meanings of Symbols
Masayuki Fujiwara, Takashi Hashimoto, Guanhong Li, Jiro Okuda, Takeshi Konno, Kazuyuki Samejima, Junya Morita

The Cognitive Architecture of Recursion: Behavioral and fMRI Evidence from the Visual, Musical and Motor Domains
Mauricio de Jesus Dias Martins

An fNIRS Hyperscanning Study on Brain-Brain Interactions of a Dyad during a Joint Sentence Reading Task
Erdinc Isbilir, Murat Perit Cakir, Fred Cummins, Hasan Ayaz

Everyday object affordance enhances automatic inhibitory control: an ERP study
Stefania Righi, Giorgio Gronchi, Lapo Pierguidi, Maria Pia Viggiano

The Influence of Speaker's Gaze on Sentence Comprehension: An ERP Investigation
Torsten Jachmann, Heiner Drenhaus, Maria Staudte, Matthew Crocker

Word retrieval decline in midlife: a voxel-based morphometry study
Vanja Kljajevic

A Plausible Micro Neural Circuit for Decision-Making
Hui Wei, Dawei Dai, Yijie Bu

The Structure of Goal Systems Predicts Human Performance
David Bourgin, Falk Lieder, Daniel Reichman, Nimrod Talmon, Tom Griffiths

Which test to perform? Modeling utility of medical tests: information gain, patient risk and financial costs
Clara Schirren, Stefanie C. Hautz, Wolf E. Hautz, Juliane E. Kämmer, Björn Meder, Jonathan D. Nelson

Measuring Demand Avoidance with the Demand Selection Task: Challenges and Opportunities
Ion Juvina, Jeffrey Nador, Othalia Larue, Randall Green, Brandon Minnery, Assaf Harel

The spontaneous creation of systems of conventions
Jennifer Misyak, Nick Chater

The dilution effect: Conversational basis and witness reliability
Jens Koed Madsen, Ulrike Hahn, Marion Vorms

Enhancing metacognitive reinforcement learning using reward structures and feedback
Paul Krueger, Falk Lieder, Tom Griffiths

How does of initial inaccuracy benefit cross-situational word learning?
Chris Grimmick, George Kachergis, Todd Gureckis

Want to prime exercise? Calorie labels work better than activity ones!
Dawn Liu, Marie Juanchihch

How reactivation strength affects memory updating
    Scully Iiona, Hupbach Almut

Disambiguating Disfluencies: What Do Speech Disfluencies Tell Us About Speech Production?
    Mikhail Sokolov, John Logan

Document Similarity Misjudgment by LSA: Misses vs. False Positives
    Kyung Hun Jung, Eric Ruthruff, Timothy Goldsmith

Judging Magnitude: Is there a Common Cognitive System for Different Types of Magnitude Judgments?
    Rylan J. Waring, Lana M. Trick

Influences of the Matching Effects of Cognitive and Emotional Factors on Attitude Change
    Tung-Cheng Wu, Jon-Fan Hu, Shu-Ling Peng

Children’s reasoning about data sets
    Amy Masnick, Bradley Morris, Christopher Was

Perceived Difficulty of Moral Dilemmas Depends on Their Causal Structure: A Formal Model and Preliminary Results
    Barbara Kuhnert, Felix Lindner, Martin Bentzen, Marco Ragni

Reasons and the "Motivated Reasoning Effect"
    Cristina Ballarini, Steven Sloman

Moral Judgments in Trolley Like Dilemmas: An Eye-Tracking Study
    Vjeran Keric, Evgeniya Hristova

Reasoning ability predicts irrational worldview but not conspiracy belief
    Jan Jastrzebski, Adam Chuderski

Biases and labeling in iterative pragmatic reasoning
    Jon Stevens

Do forgiving God primes strengthen support for state sanctioned punishment?
    Katherine O'Lone, Ryan McKay

Determinants of judgments of explanatory power: Credibility, Generalizability, and Causal Framing
    Matteo Colombo, Leandra Bucher, Jan Sprenger

Rational and Semi-Rational Explanations of the Conjunction Fallacy: A Polycausal Approach
    Momme von Sydow

Abductive, Causal, and Counterfactual Conditionals Under Incomplete Probabilistic Knowledge
    Niki Pfeifer, Leena Tulkki
Instruction type and believability influence on metareasoning in a base rate task  
Pavle Valerjev, Marin Dujmović

Computational Modelling of Embodied Semantic Cognition: A Deep Learning Approach  
Ajitesh Ghose, Rick Cooper

Mouse Tracking Shows Attraction to Alternative Targets While Grounding Spatial Relations  
Jonas Lins, Gregor Schoener

To organize or not to organize? Examining biases in search strategies using Lego building blocks  
Mona Zhu, Kimberley Yuen, Evan Risko

Can Illness be Bright? Metaphor comprehension depends on linguistic and embodied factors  
Pei Q Liu, Louise Connell, Dermot Lynott