



Schedule Overview

Saturday, March 25, 2023

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| 9:00 – 11:00 am | Satellite Event |
| 11:00 am - 1:30 pm | Exhibitor Check In, <i>Pacific Concourse</i> |
| 11:00 am - 6:00 pm | On-site Registration & Pre-Registration Check In, <i>Grand Ballroom Foyer</i> |
| 12:00 - 1:30 pm | Data Blitz Session 1 , <i>Grand Ballroom A</i> |
| | Data Blitz Session 2 , <i>Grand Ballroom B/C</i> |
| | Data Blitz Session 3 , <i>Bayview Room</i> |
| 1:00 - 1:30 pm | Poster Session A Set-Up, <i>Pacific Concourse</i> |
| 1:30 - 3:30 pm | Poster Session A , <i>Pacific Concourse</i> |
| 1:30 - 5:30 pm | Exhibits Open, <i>Pacific Concourse</i> |
| 2:30 – 3:00 pm | Coffee Service, <i>Pacific Concourse</i> |
| 3:30 - 4:30 pm | Opening Ceremonies & Keynote Address - Poverty and Neuroscience: A Fish and a Bicycle?, Martha J. Farah , <i>University of Pennsylvania</i> , <i>Grand Ballroom</i> |
| 4:45 – 6:30 pm | CNS at 30: Perspectives on the Roots, Present, and Future of Cognitive Neuroscience , <i>Grand Ballroom</i> |
| 5:00 - 5:30 pm | Poster Session A Take-Down, <i>Pacific Concourse</i> |
| 5:30 pm | Exhibit Hall Closed for the Day – No Entry |
| 6:30 - 7:30 pm | Welcome Reception, <i>Atrium</i> |
| 8:00 – 11:00 pm | 30th Anniversary Dance Party, <i>Grand Ballroom</i> |

Sunday, March 26, 2023

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| 7:30 - 8:00 am | Exhibit Hall Access for Exhibitors/Poster Session B Set-up Only, <i>Pacific Concourse</i> |
| 7:30 am - 6:30 pm | On-site Registration & Pre-Registration Check In, <i>Grand Ballroom Foyer</i> |
| 8:00 - 8:30 am | Continental Breakfast, <i>Pacific Concourse</i> |
| 8:00 - 10:00 am | Poster Session B , <i>Pacific Concourse</i> |
| 8:00 am - 7:00 pm | Exhibits Open, <i>Pacific Concourse</i> |
| 10:00 am - 12:00 pm | Invited Symposium 1 — Electrophysiological Studies of Human Memory Retrieval , Nanthia Suthanas, Chair, <i>Grand Ballroom A</i> |
| ▶ 10:00 - 10:08 am | Introduction |
| ▶ 10:08 - 10:36 am | Talk 1: Hippocampal-Prefrontal Representations Differentiate Outcomes that Vary by Context, Alison Preston |
| ▶ 10:36 - 11:04 am | Talk 2: Memory Prediction and Reactivation in Human Electrophysiology, Nicholas Turk-Browne |
| ▶ 11:04 - 11:32 am | Talk 3: Dynamic Neurophysiological Representations of Memory During Real-World Navigation in Humans, Nanthia Suthana |
| ▶ 11:32 - 12:00 pm | Talk 4: Schema, Drift, and Episodic Boundaries: A New Look at Primacy Effects in Free Recall, Bradley Lega |
| 10:00 am - 12:00 pm | Invited Symposium 2 — Learning and Generalization in Humans and Machines , Anna Schapiro, Chair, <i>Grand Ballroom B/C</i> |

- ▶ 10:00 - 10:08 am Introduction
- ▶ 10:08 - 10:36 am **Talk 1:** How to Organise Knowledge for Flexible Behaviour, James Whittington
- ▶ 10:36 - 11:04 am **Talk 2:** Discovering Abstractions that Bridge Perception, Action, and Communication, Judy Fan
- ▶ 11:04 - 11:32 am **Talk 3:** Symbols and Compositionality in Large Artificial Neural Networks, Ellie Pavlick
- ▶ 11:32 - 12:00 pm **Talk 4:** How Well Do Unsupervised Learning Algorithms Explain Actual Human Learning?, Dan Yamins
- 11:30 - 11:45 am Poster B Take-Down, *Pacific Concourse*
- 12:00 - 1:30 pm Lunch Break (On your own)
- 1:30 - 2:00 pm Poster C Set-Up, *Pacific Concourse*
- 1:30 - 3:30 pm **Symposium 1 — Stable Perception in the Wavering Brain - Reconciling Perceptual Stability with Dynamic Neuronal Representations**, Leon Deouell, Chair, *Bayview Room*
- ▶ 1:30 - 1:38 pm Introduction
- ▶ 1:38 - 2:04 pm **Talk 1:** Dynamic Reorganization of Neuronal Activity Patterns in Parietal Cortex, Laura N. Driscoll
- ▶ 2:04 - 2:30 pm **Talk 2:** Communication Subspaces: A Mechanism for Flexible Interareal Signaling, Adam Kohn
- ▶ 2:30 - 2:56 pm **Talk 3:** Stable Conscious Experience is Represented by Time-Invariant Neural Patterns, Leon Y Deouell
- ▶ 2:56 - 3:22 pm **Talk 4:** Relational Coding Underlies the Stability of Perceptual Content in Human Visual Cortex, Rafael Malach
- ▶ 3:22 - 3:30 pm Q&A with the Audience
- 1:30 - 3:30 pm **Symposium 2 — 'Stop Thinking About It!': Cognitive and Neural Mechanisms of the Removal and Inhibition of Information in Memory**, Marie Banich, Chair, *Grand Ballroom A*
- ▶ 1:30 - 1:38 pm Introduction
- ▶ 1:38 - 2:04 pm **Talk 1:** Removal of Information from Working Memory Via Three Distinct Mechanisms, Marie Banich
- ▶ 2:04 - 2:30 pm **Talk 2:** Directed Forgetting within Working Memory: Evidence for Successful Removal and an Active Mechanism, Sara Festini
- ▶ 2:30 - 2:56 pm **Talk 3:** Disentangling Cognitive and Neural Mechanisms of Intentional Forgetting in Long-term Memory, Lili Sahakyan
- ▶ 2:56 - 3:22 pm **Talk 4:** Active Forgetting of Unwanted Memories via Global Hippocampal Suppression, Michael Anderson
- ▶ 3:22 - 3:30 pm Q&A with the Audience
- 1:30 - 3:30 pm **Symposium 3 — The Data Science Future of Cognitive Neuroscience**, Bradley Voytek, Chair, *Seacliff Room*
- ▶ 1:30 - 1:38 pm Introduction
- ▶ 1:38 - 2:04 pm **Talk 1:** Neuromaps: Structural and Functional Interpretation of Brain Maps, Justine Hansen
- ▶ 2:04 - 2:30 pm **Talk 2:** Data-Driven Mapping and Validation of a Framework for Human Brain Function, Ellie Beam
- ▶ 2:30 - 2:56 pm **Talk 3:** The BRAIN Initiative Cell Census and Cell Atlas Networks, Michael Hawrylycz
- ▶ 2:56 - 3:22 pm **Talk 4:** CogNeuro GO: Capturing Synchronized Neural and Experiential Data in the Wild, Cory Inman
- ▶ 3:22 - 3:30 pm Q&A with the Audience
- 1:30 - 3:30 pm **Symposium 4 — Beyond the Brain: Tracking Mind and Brain through the Periphery**, Freek van Ede, Chair, *Grand Ballroom B/C*
- ▶ 1:30 - 1:38 pm Introduction
- ▶ 1:38 - 2:04 pm **Talk 1:** Sensory Saliency at the Tip of Your Fingers: Evidence from Isometric Force Recordings, Giacomo Novembre
- ▶ 2:04 - 2:30 pm **Talk 2:** Eye Movements as a Window on Temporal Expectations, Shlomit Yuval-Greenberg
- ▶ 2:30 - 2:56 pm **Talk 3:** Peripheral Motor Measures as a Window into the Fronto-Subthalamic Inhibitory Control Circuit, Jan R. Wessel
- ▶ 2:56 - 3:22 pm **Talk 4:** Internal Selective Attention Under the Microsaccade Scope, Freek van Ede
- ▶ 3:22 - 3:30 pm Q&A with the Audience
- 3:30 - 4:00 pm Coffee Break, *Ballroom Foyer*
- 4:00 - 5:00 pm **29th Annual George A. Miller Prize in Cognitive Neuroscience Lecture, "Everyone knows what attention is ..."**
– On its neural basis in the primate brain, Sabine Kastner, Princeton University, *Grand Ballroom*
- 5:00 - 7:00 pm **Poster Session C**, *Pacific Concourse*
- 7:00 - 7:15 pm Poster Session C Take-Down, *Pacific Concourse*
- 7:15 pm Exhibit Hall Closed for the Day – No Entry

Monday, March 27, 2023

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| 7:30 - 8:00 am | Exhibit Hall Access for Exhibitors/Poster Session D Set-Up Only, <i>Pacific Concourse</i> |
| 8:00 am - 5:30 pm | On-site Registration & Pre-Registration Check In, <i>Grand Ballroom Foyer</i> |
| 8:00 - 8:30 am | Continental Breakfast, <i>Pacific Concourse</i> |
| 8:00 - 10:00 am | Poster Session D , <i>Pacific Concourse</i> |
| 8:00 am - 5:45 pm | Exhibits Open, <i>Pacific Concourse</i> |
| 8:00 - 10:00 am | Communications Open House, Press Room, <i>Regency A</i> |
| 10:00 am - 12:00 pm | Symposium 5 — Can't Stop Won't Stop: Statistical Learning Persists through Development, Brain Damage and Competing Demands , Laura Batterink, Chair, <i>Grand Ballroom B/C</i> |
| ▶ 10:00 - 10:08 am | Introduction |
| ▶ 10:08 - 10:34 am | Talk 1: The Neurobiology of Auditory Statistical Learning is More Domain-Specific Early in Life, Zhenghan Qi |
| ▶ 10:34 - 11:00 am | Talk 2: The Developing Brain Represents Specific and Group Level Regularities Differently, Amy Finn |
| ▶ 11:00 - 11:26 am | Talk 3: Statistical Learning does not Require the Dentate Gyrus, Laura Batterink |
| ▶ 11:26 - 11:52 am | Talk 4: Learning from Abstract Regularities in the Hippocampus and Visual Cortex, Brynn Sherman |
| ▶ 11:52 - 12:00 pm | Q&A with the Audience |
| 10:00 am - 12:00 pm | Symposium 6 — Neurocomputational Accounts of Agency , Ivan Grahek, Chair, <i>Seacliff Room</i> |
| ▶ 10:00 - 10:08 am | Introduction |
| ▶ 10:08 - 10:34 am | Talk 1: Neurocomputational Mechanisms of Agency-Modulated Reward Learning, Hayley Dorfman |
| ▶ 10:34 - 11:00 am | Talk 2: Neural Dynamics Underlying Updating and Adaptation to Changes in Performance Efficacy, Ivan Grahek |
| ▶ 11:00 - 11:26 am | Talk 3: Controllability and Goal-Directedness, Mimi Liljeholm |
| ▶ 11:26 - 11:52 am | Talk 4: Inter-Agent Empowerment as Social Incentive and the Three Laws of Robotics, Daniel Polani |
| ▶ 11:52 - 12:00 pm | Q&A with the Audience |
| 10:00 am - 12:00 pm | Symposium 7 — Events and Their Boundaries: A Developmental Perspective , Susan Benear, Chair, <i>Bayview Room</i> |
| ▶ 10:00 - 10:08 am | Introduction |
| ▶ 10:08 - 10:34 am | Talk 1: Setting Boundaries: Development of Neural and Behavioral Event Cognition in Early Childhood, Susan Benear |
| ▶ 10:34 - 11:00 am | Talk 2: Spatial Boundaries and the Development of Episodic Memory Structure, Yu Jin Rah |
| ▶ 11:00 - 11:26 am | Talk 3: Responses to Narrative Events Change with Development in the Cortex and Hippocampus, Samantha Cohen |
| ▶ 11:26 - 11:52 am | Talk 4: Beyond the Boundaries: Event Model Maintenance Across Development, Erika Wharton-Shukster |
| ▶ 11:52 - 12:00 pm | Q&A with the Audience |
| 10:00 am - 12:00 pm | Symposium 8 — From Observed Experience to Concepts: Multiple Views on the Mechanisms of Concept Formation in the Human Brain , Anna Leshinskaya, Chair, <i>Grand Ballroom A</i> |
| 10:00 - 10:08 am | Introduction |
| ▶ 10:08 - 10:34 am | Talk 1: Inferring Representational Abstraction from Plasticity Patterns in those Born Blind or Without Hands, Ella Striem-Amit |
| ▶ 10:34 - 11:00 am | Talk 2: Multimodal Object Representations Rely on Integrative Coding, Morgan Barese |
| ▶ 11:00 - 11:26 am | Talk 3: Relational Encoding Drives Sensory Abstraction in Lateral Temporal Cortex, Anna Leshinskaya |
| ▶ 11:26 - 11:52 am | Talk 4: The Effects of Early-Life Language Experience in Deriving Neural Semantic Representations, Yanchao Bi |
| ▶ 11:52 - 12:00 pm | Q&A with the Audience |
| 11:30 - 11:45 am | Poster Session D Take-Down, <i>Pacific Concourse</i> |
| 12:00 - 1:30 pm | Lunch Break (On your own) |
| 12:15 - 1:15 pm | Workshop — Industry Professional Development Panel , <i>Bayview Room</i> |
| 1:30 - 2:00 pm | Poster Session E Set-Up, <i>Pacific Concourse</i> |
| 1:30 - 2:00 pm | YIA 1 — Learning Representations of Specifics and Generalities Over Time , Anna Schapiro, <i>Grand Ballroom A</i> |
| 2:00 - 2:30 pm | YIA 2 — Focusing Working Memory for Behaviour , Freek van Ede, <i>Grand Ballroom A</i> |

2:30 - 4:30 pm
3:30 - 4:00 pm
4:30 - 5:30 pm

5:30 - 5:45 pm
5:45 - 7:15 pm
5:45 pm
7:30 - 10:00 pm

Poster Session E, Pacific Concourse
Coffee Service, *Pacific Concourse*
12th Annual Fred Kavli Distinguished Career Contributions in Cognitive Neuroscience Lecture, A Tale About the Frontal Lobes as told by a Neurologist, Mark D'Esposito, University of California, Berkeley, *Grand Ballroom*
Poster Session E Take-Down, *Pacific Concourse*
8th Annual CNSTA Professional Development Panel for Trainees, *Bayview Room*
Exhibit Hall Closed for the Day – No Entry
CNS Student Trainee Social Night

Tuesday, March 28, 2023

7:30 am - 8:00 am
8:00 am - 3:00 pm
8:00 - 8:30 am
8:00 - 10:00 am
8:00 am - 12:00 pm
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▶ 2:56 - 3:22 pm
▶ 3:22 - 3:30 pm

Exhibit Hall Access for Exhibitors/Poster Session F Set-Up Only, *Pacific Concourse*
On-site Registration & Pre-Registration Check In. *Grand Ballroom Foyer*
Continental Breakfast, *Pacific Concourse*
Poster Session F, Pacific Concourse
Exhibits Open, *Pacific Concourse*
Invited Symposium 3 — Fulfilling the Promise of Inhibitory Control: Bridging the Gap Between Motor and Cognitive Inhibition, Jan R. Wessel, Chair, *Grand Ballroom A*
Introduction
Talk 1: The Universal Role of Inhibitory Control in Flexible Behavior and Cognition, Jan R. Wessel
Talk 2: A Common Brain Mechanism for Stopping Unwanted Actions and Memories, Dace Apšvalka
Talk 3: Recruitment of Domain-General Inhibitory Control Supports Suppression of Encoding of Episodic Memories, Ryan J. Hubbard & Lili Sahakyan
Talk 4: Top-Down Control by Beta Rhythms, Earl K. Miller
Invited Symposium 4 — Paths to Increased Brain-Behavior Reproducibility, Nico Dosenbach, Chair, *Grand Ballroom B/C*
Introduction
Talk 1: Brain-Wide Association Studies: A Year in Review, Scott Marek
Talk 2: Considerations for Improving Measurement Reliability and Validity in fMRI, Stephanie Noble
Talk 3: Insights From Large-Scale Datasets for Optimizing Study Design and Boosting Prediction Accuracy, Thomas Yeo
Talk 4: Improving Robustness and Interpretability in Brain-Behavior Modeling, Russ Poldrack
Poster Session F Take-Down, *Pacific Concourse*
Exhibit Hall Closed for the Day – No Entry
Lunch Break (On your own)
Symposium 9 — In Memoriam Leslie G. Ungerleider (1946-2020), Sabine Kastner, Chair, *Grand Ballroom B/C*
Introduction
Talk 1: Primate Parallel Pathways in Visual Areas and Beyond, Helen Barbas
Talk 2: The Essential Interaction of Function and Anatomy in Primate Vision, Chris Baker
Talk 3: On the Relevance of Gamma Oscillations for Figure-Ground Segregation in Visual Textures, Peter De Weerd
Talk 4: Face Patches and Circuitry in Human and Non-Human Inferotemporal Cortex, Marlene Behrmann
Q&A with the Audience
Symposium 10 — The Brain is Complex: Have we Been Studying it all Wrong?, Brad Postle, Chair, *Grand Ballroom A*
Introduction
Talk 1: The Entangled Brain, Luiz Pessoa
Talk 2: A Perspective from Network Neuroscience, Lucina Uddin
Talk 3: Modular Brain, Entangled Argument, John Krakauer
Talk 4: Not Every Thing Must Go, Felipe De Brigard
Q&A with the Audience

1:30 - 3:30 pm

Symposium 11 — Altered States of Cognition: The Acute and Persisting Consequences of Psychedelic Drugs on Cognition, Manoj Doss, Chair, *Bayview Room*

- ▶ 1:30 - 1:38 pm
- ▶ 1:38 - 2:04 pm
- ▶ 2:04 - 2:30 pm
- ▶ 2:30 - 2:56 pm

- ▶ 2:56 - 3:22 pm
- ▶ 3:22 - 3:30 pm

Introduction

Talk 1: LSD-Altered Spatial Cognition with Tetrode Recording of Hippocampal Place Cells, Carli Domenico

Talk 2: The Current State of Research on the Impact of Psychedelics on Episodic Memory, Manoj Doss

Talk 3: Spontaneous and Deliberate Creative Cognition During and After Psilocybin Exposure, Natasha L Mason

Talk 4: Beliefs, Psychedelics, and the Brain, Philip Corlett

Q&A with the Audience

1:30 - 3:30 pm

Symposium 12 — Methodological Advances in the Study of Autobiographical Memory, Roni Setton, Chair, *Seacliff Room*

- 1:30 - 1:38 pm
- ▶ 1:38 - 2:04 pm

- ▶ 2:04 - 2:30 pm
- ▶ 2:30 - 2:56 pm

- ▶ 2:56 - 3:22 pm
- ▶ 3:22 - 3:30 pm

Introduction

Talk 1: Age and Individual Differences in Autobiographical Memory Relate to Default Network Connectivity, Roni Setton

Talk 2: Autobiographical Memory Recall in a Spontaneous Flow of Thoughts, Hongmi Lee

Talk 3: New Insights into the Link Between Visual and Mnemonic Processing during Autobiographical Retrieval, Signy Sheldon

Talk 4: Measuring Post-Retrieval Replay of Real Life Emotional Memories in Individuals with Depression, Asieh Zadbood

Q&A with the Audience