

8
SUN

ELSC ANNUAL RETREAT

Organizing Committee: Jonathan Kadmon & Raunak Basu

11:00 - 12:00

Welcome & Coffee

12:00 - 13:40

Session I

11:30

Keren Kasten (Ahissar) - Slower Online Updating in Autism: Evidence from fMRI Motor Tasks

11:55

Shulamit Baror-Sebban (Adam) - Voltage Imaging in Freely Moving Mice Using Fiberscope and Targeted Illumination

12:20

Ido Aizenbud (London & Segev) - What Can a Single Neuron Compute?

12:45

David Beniaguev (London & Segev) - Training Large-Scale Spiking Networks of Realistic Neurons via Differentiable DNN Twins

13:40 - 13:55

The Future of Neuroscience I

13:55 - 15:00

Lunch + Room Allocation

(rooms will be assigned as they become available, additional rounds may be needed)

15:00 - 16:15

Session II

14:30

Gal Chen (Deouell) - High-level Prediction of Continuous Speech During Mind-Wandering

14:55

Yifat Haddad (Habib) - From Cellular Dynamics to Causal Mechanism: A Framework for Simulating Interventions in Alzheimer's Disease

15:20

Tirzah Kreisel (Goshen) - Astrocytic Activation Corrects Memory Performance in an Alzheimer's Disease Model

16:15 - 16:30

The Future of Neuroscience II

16:30 - 16:45

Blitz I

Adria Dym (Mizrahi & Lottem), Nadav Elan Eliash (Habib), Roy Dayan (Citri/Arkadir),

16:45 - 17:00

Poster Setup

17:00 - 19:00

Poster Session I + Beer

19:00 - 20:00

Dinner

20:00 - 21:00

Keynote - Omri Marcus

Beyond the Data: How AI is Becoming Your New Storytelling Assistant

21:00 - 23:00

Social Event

9
MON

ELSC ANNUAL RETREAT

Organizing Committee: Jonathan Kadmon & Raunak Basu

08:00 - 09:00

Breakfast

09:00 - 13:30

Hiking Trip

13:30 - 14:00

Lunch

14:00 - 15:40

Session III

14:00

David Shores (Loewenstein) - Investigating the Determinants of Social Intelligence Using LLM Agents

14:25

Shoham Atia (Joskowicz) - Vestibular Schwannoma Segmentation and Prediction of Treatment Response for Multi-Modality Longitudinal Clinical and MRI Data

14:50

Tomer Sheinfeld (Citri) - Dopamine Differentially Modulates Insula-Striatum Projections Via Distinct Cellular Compartments.

15:15

Nadav Lederman (Sompolinsky) - One Manifold, Two Modalities: Probing Shared Structure in Audio-Visual Representations

15:40 - 15:55

The Future of Neuroscience III

15:55 - 16:15

Break

16:15 - 16:30

Blitz II

Mousa Karayanni (Nelken & Loewenstein),
Yogev Hendel (Hart), Yael Morose (Goshen),
Serafima Dubnov (Soreq & Nitzan),
Shira Eve Papiashvili (Deouell)

16:30 - 17:30

Keynote - Prof. Itzhak Fried

Mending the Mind: From Single-Neuron Codes to Memory Prosthetics

17:30 - 19:30

Poster Session II + Beer

19:30 - 20:30

Dinner

20:30 - 23:00

Party

10
TUE

ELSC ANNUAL RETREAT

Organizing Committee: Jonathan Kadmon & Raunak Basu

09:00 - 10:40

Session IV

- 09:00 Ke Ding (Ben Yakov) - The Causal Role of the Left Angular Gyrus in Creativity-Driven Restructuring
- 09:25 Anael Cain (Habib) - Multi-Tissue Coordination of Aging and Alzheimer's Disease Trajectories
- 09:50 John Schwarcz (Kadmon & Lottem) - Learning to Leverage Interaction-Information in Uncertain Environments: How Animals and RNNs Discover Context from Reward
- 10:15 Isaac Ashkenazi (Hart) - Segmenting Experience into Discrete Events: An Optimal Compression Framework

10:40 - 11:10

Break

11:10 - 12:25

Session V

- 11:10 Aviel Sulem (Ahissar) - How Does Response Strategy Shape the Relative Weight of Recent and Long-Term Histories in Perceptual Decisions?
- 11:35 Avital Pushett (Meshorer) - Mutant Huntingtin Disrupts Global DNA Methylation in Human iPSC-Derived Cerebral Organoids
- 12:00 Yehonatan Avidan (Sompolinsky) - Sparse Coding of Neural Manifolds

12:25 - 12:35

The Future of Neuroscience IV

12:35 - 12:40

Concluding Remarks Lunch and Home