

SESSION 1: Computational Neuroscience (7 Nov 2024, Thursday)

Poster #	Presenter	Title
1	Alex Qin	Longer brain state visitations have higher salience
2	Anna Behler	The role of traveling waves and phase-phase interactions in cortico-hippocampal communication
3	Aswin Paul	Bridging biology and ai: active inference for biologically plausible decision-making models
4	Beth Fisher	Active inference model of the optimism bias
5	Chetan Gohil	Tracking information flow during cognitive tasks using time-resolved transfer entropy
6	Christopher Whyte	A large-scale corticothalamic model of conscious access
7	Elaine Kuan	Language activation from naturalistic fMRI time series using machine learning
8	Eli Muller	Thalamic control over laminar cortical dynamics across conscious states
9	Elizabeth Zavitz	Learning to map the topography of thought
10	Elnaz Nemati	Emergence of prediction error neurons in V1 through specialized inhibitory microcircuits: a hierarchical neural model
11	Francis Normand	Generative model of the human connectome: a geometric approach
12	Hamid Karimi-Rouzbahani	Tracking information flow across the brain using representational connectivity analyses
13	Jayson Jeganathan	Spurious correlations in surface-based functional brain imaging
14	Matthew Greaves	Structurally informed generative modelling of effective connectivity: progress and outlook
15	Mehran Hossein Zadeh Bazargani	Brain in the dark: design principles for neuro-mimetic learning and inference
16	Mehul Gajwani	Geometric constraints on mouse brain function and organisation
17	Moein Khajehnejad	Temporal attention-enhanced variational graph recurrent neural network captures dynamics of neurons and their behavior
18	Richa Pogat	Biophysical modeling of cortical-hippocampal interactions
19	Rishi Maran	Simultaneously modeling local and long-range interactions in brain dynamics

20	Vicky He	Multilayer network switching rate in the language network and its relationship with reading proficiency
21	Victor Barnes	Effects of cortical heterogeneity on the eigenmodes of brain geometry
22	Yifei Sun	Voxel-wise brain state prediction using Swin Transformer
23	Baptiste Couvy-Duchesne	Regular medication use is associated with grey matter structure in regions linked to Alzheimer's disease
24	Bryan Paton	Developing a time series feature set for tracking primary brain cancer
25	Christian Behler	In silico modelling of brain tumour temperature
26	Gustavo Candelario Guzmán	Cell distribution in neurodevelopment: insights and perspectives from brain organoids
27	Isaac Pope	Connectome-based predictive modelling of clinical outcomes in first-episode psychosis
28	Jieru Liao	Stability of brain networks in epilepsy
29	Kaichao Wu	Mapping and modeling age-related changes in intrinsic neural timescales
30	Parvin Zarei Eskikand	Neural connectivity patterns forecast seizure duration: insights from neural mass model
31	Pok Him Siu	Geometric eigenmodes as a means to constrain the EEG source localisation problem in epilepsy
32	Shawn Prest	Modelling meditative deconstruction and its phenomenology under active inference
33	Sin-Yee Yap	A deep probabilistic spatiotemporal framework for dynamic graph representation learning with application to brain disorder identification
34	Wei Qin	Brain-wide calcium imaging in zebrafish and generative network modelling reveal cell-level functional network properties of seizure development
35	Yalda Amirmoezzi	Characterizing brain-cardiovascular aging using multi-organ imaging and machine learning