

CAMP2023

11 - 25 July

Tuesday 11

8:00 - 8:45	Breakfast
9:00 - 11:00	Nishikant Subhedar - Functional Neuroanatomy
11:00 - 11:30	Tea
11:30 - 12:30	Registration and Setup
12:30 - 14:00	Lunch
14:00 - 15:00	Suhita Nadkarni - Cellular Physiology
15:00 - 16:00	Demian Battaglia - Flexible information processing from collective neural dynamics I
16:00 - 16:30	Tea
16:30 - 17:30	Demian Battaglia - Flexible information processing from collective neural dynamics II
17:30 - 19:30	Nishikant Subhedar - Demo: Brain Slices
19:30 - 20:30	Dinner

Wednesday 12

8:00 - 8:45	Breakfast
9:00 - 10:00	Viktor Jirsa - Introduction to nonlinear dynamics
10:00 - 11:00	Viktor Jirsa - Linking neural dynamics, maximum information principle and free energy
11:00 - 11:30	Tea
11:30 - 12:30	Python Bootcamp
12:30 - 14:00	Lunch
14:00 - 15:00	Python Bootcamp
15:00 - 16:00	Demian Battaglia - Flexible information processing from collective neural dynamics III
16:00 - 16:30	Tea
16:30 - 17:30	Demian Battaglia - The Revenge of the Weak
17:30 - 18:30	Tom Bartol - Impact of LTP on information storage capacity at hippocampal synapses
19:30 - 20:30	Dinner

Thursday 13

7:00 - 7:30	Breakfast
7:45 - 14:00	Heritage Walk
15:00 - 16:00	Viktor Jirsa - Virtual Brain Theory
16:00 - 16:30	Tea
16:30 - 17:30	Viktor Jirsa - Virtual Brain in Epilepsy
17:30 - 18:30	Nixon Abraham - Systems Level Olfaction
19:30 - 20:30	Dinner

Friday 14

8:00 - 8:45	Breakfast
9:00 - 10:00	Tom Bartol - How to build a synapse with MCell/CellBlender
10:00 - 11:00	Tom Bartol - Organelle Model Tutorial
11:00 - 11:30	Tea
11:30 - 12:30	Tom Bartol - Organelle Model Tutorial
12:30 - 14:00	Lunch
14:00 - 16:00	Rishikesh Narayanan - Morphology and Cable Theory
16:00 - 16:30	Tea
16:30 - 17:30	Sarang Saini - Modelling Passive Compartments
18:30 - 19:30	T-shirt Designing
19:30 - 20:30	Dinner

Saturday 15

8:00 - 8:45	Breakfast
9:00 - 11:00	Rishikesh Narayanan - Ion Channels
11:00 - 11:30	Tea
11:30 - 12:30	Sarang Saini - Modelling Active Compartments
12:30 - 14:00	Lunch
14:00 - 16:00	Omri Barak - Recurrent Neural Networks: random, designed and trained I
16:00 - 16:30	Tea
16:30 - 17:30	Omri Barak - Recurrent neural networks: random, designed, and trained
17:30 - 19:30	Sports
19:30 - 20:30	Dinner

Sunday 16

8:00 - 8:45	Breakfast
9:00 - 11:00	Omri Barak - Recurrent Neural Networks: random, designed and trained II
11:00 - 11:30	Tea
11:30 - 12:30	Kabir Dabholkar - Training and analyzing Recurrent Neural Networks
12:30 - 14:00	Lunch
14:00 - 15:00	Claudia Lainscsek - Nonlinear dynamical classification of short time series of the Rössler system in high noise regimes
15:00 - 16:00	TBA
16:00 - 16:30	Tea
16:30 - 17:30	Rishikesh Narayanan - Computation and Plasticity in the Brain: Towards remedying the oversimplifications
18:30 - 19:30	Discussion
19:30 - 20:30	Dinner

Monday 17

	Outing
19:30 - 20:30	Dinner

Tuesday 18

8:00 - 8:45	Breakfast
9:00 - 10:00	Claudia Lainscsek - Nonlinear dynamical classification of short time series of the Rössler system in high noise regimes
10:00 - 11:00	Adrienne Fairhall - The biophysics of neural coding
11:00 - 11:30	Tea
11:30 - 12:30	Claudia Lainscsek - Delay Differential Analysis of iEEG Data
12:30 - 14:00	Lunch
14:00 - 16:00	Project
16:00 - 16:30	Tea
16:30 - 19:30	Project
19:30 - 20:30	Dinner

Wednesday 19

8:00 - 8:45	Breakfast
9:00 - 11:00	Project Presentation
11:00 - 11:30	Tea
11:30 - 12:30	Project Presentation
12:30 - 14:00	Lunch
14:00 - 15:00	Adrienne Fairhall - The role of adaptation in information representation
15:00 - 16:00	TBA
16:00 - 16:30	Tea
16:30 - 17:30	Adrienne Fairhall - Bridging neural firing to behavior in Hydra
18:30 - 19:30	Cultural Mix
19:30 - 20:30	Dinner

Thursday 20

8:00 - 8:45	Breakfast
9:00 - 11:00	Vatsala Thirumalai - TBA
11:00 - 11:30	Tea
11:30 - 12:30	Kabir Dabholkar - Training and analyzing Recurrent Neural Networks
12:30 - 14:00	Lunch
14:00 - 15:00	Gabrielle Gutierrez - Navigating the Hemibrain connectome using the Neuprint Python API
15:00 - 16:00	TBA
16:00 - 16:30	Tea
16:30 - 17:30	Vatsala Thirumalai - TBA
17:30 - 19:30	Sports
19:30 - 20:30	Dinner

Friday 21

8:00 - 8:45	Breakfast
9:00 - 11:00	Aurnab Ghose - Design Principles in Neuroscience
11:00 - 11:30	Tea
11:30 - 12:30	TBA
12:30 - 14:00	Lunch
14:00 - 15:00	Gabrielle Gutierrez - A reduced dynamical systems model of the circadian clock circuit
15:00 - 16:00	Raghav Rajan - TBA
16:00 - 16:30	Tea
16:30 - 17:30	Gabrielle Gutierrez - Exploring the connectome of the Drosophila clock circuit
19:30 - 20:30	Dinner

Saturday 22

8:00 - 8:45	Breakfast
9:00 - 11:00	Sarang Saini - Modelling real 3D Neuronal Morphology, Oscillations, and Synapses
11:00 - 11:30	Tea
11:30 - 12:30	TBA
12:30 - 14:00	Lunch
14:00 - 15:00	Srikanth Ramaswamy - Neuromodulatory function in neural networks
15:00 - 16:00	Raghav Rajan - TBA
16:00 - 16:30	Tea
16:30 - 17:30	Srikanth Ramaswamy - Multiscale effects of neuromodulatory signalling in neocortical circuits
18:30 - 19:30	Discussion
19:30 - 20:30	Dinner

Sunday 23

8:00 - 8:45	Breakfast
9:00 - 11:00	Arvind Kumar - Reinforcement Learning
11:00 - 11:30	Tea
11:30 - 12:30	Arvind Kumar - Dopamine and vector-valued feedback in the basal ganglia
12:30 - 14:00	Lunch
14:00 - 16:00	Upi Bhalla - Detailed cellular signalling models
16:00 - 16:30	Tea
16:30 - 17:30	Upi Bhalla - Synaptic Signaling: Experiments, Models and Computation
19:30 - 20:30	Dinner

Monday 24

8:00 - 8:45	Breakfast
9:00 - 11:00	Sanjay Sane - TBA
11:00 - 11:30	Tea
11:30 - 12:30	Sanjay Sane - TBA
12:30 - 14:00	Lunch
14:00 - 16:00	Project
16:00 - 16:30	Tea
16:30 - 19:30	Project
19:30 - 20:30	Dinner

Tuesday 25

8:00 - 8:45	Breakfast
9:00 - 11:00	Project Presentation
11:00 - 11:30	Tea
11:30 - 12:30	Project Presentation
12:30 - 14:00	Lunch
14:00 - 15:00	Closing Session
16:00 - 16:30	Tea
17:30	Wynkk

Pedagogical Talk
Research Talk
Tutorial
Project
Outing
Break Time
Others