

Wifi: Institute Guest PW: sounders

Monday, September 23, 2024				
1:30- 2:00pm	Registration + Poster Set-Up			
2:00-2:15pm	Welcome and opening remarks			
2:15-3:15pm	KEYNOTE- David Baker, University of Washington Protein design for molecular recognition			
3:15-3:45pm	Bing Brunton, University of Washington Embodied intelligence through integrated neuromechanical models of natural behavior			
3:45-4:15pm	Andreas Tolias, Stanford University NeuroAl: Building Digital Twins of the Brain			
4:15- 4:30pm	Coffee Break			
4:30- 6:00pm	Reception + Poster Session			
6:00- 7:00pm	Dinner			
7:00pm	Day 1 Conclusion			

Tuesday, Septem	ber 24, 2024		
8:00-9:00am	Registration + Breakfast		
9:00-9:30am	Matheus Viana, Allen Institute for Cell Science Towards a holistic and quantitative stem cell state landscape		
9:30-10:00am	Kim Stachenfeld, Columbia University/Google DeepMind Learning to Simulate and Control Fluid Dynamics with Graph Neural Networks		
10:00-10:30am	Armita Nourmohammad, University of Washington Learning the shape of the protein and immune universe		
10:30-11:00am	Coffee Break		
11:00-11:30am	Mariano Gabitto, Allen Institute for Brain Science Deep generative models for the multimodal analysis of single-cell datasets		
11:30-12:00pm	Lukas Hafner Al driven science		
12:00-12:30pm	Stefan Mihalas, Allen Institute-Center for Data-Driven Discovery Why is the activity in the brain so variable?		
12:30-2:00pm	Lunch		
2:00-2:30pm	Michael Elowitz, California Institute of Technology  Many-to-many protein networks as flexible computational modules		
2:30-3:30pm	Panel Discussion		
3:30-4:00pm	Coffee Break		
4:00- 5:30pm	Reception + Poster Session		
5:30- 6:30pm	Dinner		
6:30pm	Day 2 Conclusion		

Wednesday, September 25, 2024				
8:00-9:00am	Registration + Breakfast			
9:00-10:00am	KEYNOTE (virtual)- Emily Fox, Stanford University, insitro  Machine Learning for Better Medicines			
10:00-10:30am	Xiaojun Li, Allen Institute for Immunology Application of AI in Immunology Research			
10:30-11:00am	Coffee Break			
11:00-11:30am	Gokul Upadhyayula, University of California Berkeley Navigating challenges and opportunities with high-resolution in vivo imaging			
11:30-12:00pm	Laura Driscoll, Allen Institute for Neural Dynamics Fast and slow learning in artificial and biological networks			
12:00-12:30pm	Eric Shea-Brown, University of Washington Assigning credit through the "other" connectome			
12:30-2:00pm	Lunch			
2:00-2:30pm	Viren Jain, Google Simulating a zebrafish brain with functional connectomics and Al			
2:30-3:00pm	Kristin Branson - Janelia Research Campus, Howard Hughes Medical Institute What can we learn from deep-learning-based forecasting models of biological time series?			
3:00-3:30pm	Ben Cowley, Cold Spring Harbor Laboratory  Mapping model units to visual neurons reveals population code for social behavior			
3:30-4:00pm	Coffee Break			
4:00- 5:00pm	Panel Discussion			
5:00pm	Workshop Conclusion			