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 *Title TBD*
4:15- 4:30pm	Coffee Break
4:30- 6:00pm	Reception + Poster Session
6:00- 7:00pm	Dinner
7:00pm	**Day 1 Conclusion**

Tuesday, September 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 Univeristy/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	Roy Kishony, Technion-Israel Institute of Technology *AI 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- 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 AI*
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**