

Room:

3:10 - 3:30 PM

Clara Yu

Bioengineering and Computation and Neural Systems

113 Spalding Lab



1:40 - 2:00 PM	EmilyTu John Stauffer SURF Fellow	Episomal DNA isolation for oncogenic virus detection and viral vector discovery	Rustem F. Ismagilov Ethel Wilson Bowles and Robert Bowles Professor of Chemistry and Chemical Engineering; Merkin Institute Professor Natalie Wu-Woods Graduate Student in Bioengineering Christopher Neimeth Graduate Student in Bioengineering
2:00 - 2:20 PM	Tanvi L. Ganapathy	Biophysical study on the kinetics of cooperative DNA hybridization in winner-take-all pairwise annihilation reactions	Lulu Qian Professor of Bioengineering Matthew Plazola Graduate Student in Bioengineering
2:20 - 2:40 PM	Anthony K. Lindo Samuel P. and Frances Krown SURF Fellow	Lower time complexity of DNA winner take all neural network combining shared fuel amplification and pairwise annihilation	Lulu Qian Professor of Bioengineering Matthew Plazola Graduate Student in Bioengineering
2:40 - 3:00 PM	Ritali Jain Arthur R. Adams SURF Fellow	On the computational power of nucleation kinetics	Erik Winfree Professor of Computer Science, Computation and Neural Systems, and Bioengineering Cameron Chalk Postdoctoral Scholar Research Associate in Biology and Biological Engineering Yancheng Du Postdoctoral Scholar Research Associate in Biology and Biological Engineering
3:00 - 3:10 PM	BREAK		

Interpretable deep learning for functional fine-mapping of

chromatin QTLs in Alzheimer's

Disease

David Knowles

NY Genome Center Shinsuke Shimojo

Associate Professor of Computer

Gertrude Baltimore Professor of Experimental Psychology

Science, Columbia University/

3:30 - 3:50 PM	Malia A. Christy	Unsteady inertial effects in cardiovascular flows: Experimental observations and analysis	Michael Plesniak Professor and Chair of Mechanical and Aerospace Engineering, George Washington University Kartik Bulusu Associate Professor of Mechanical and Aerospace Engineering, George Washington University John O. Dabiri Centennial Professor of Aeronautics and Mechanical Engineering
3:50 - 4:10 PM	Kyra T. Phaychanpheng James J. Morgan SURF Fellow	Wake dynamics and propulsive efficiency of natural and biohybrid robotic jellyfish	John O. Dabiri Centennial Professor of Aeronautics and Mechanical Engineering Simon Anuszczyk Graduate Student in Aerospace
4:10 - 4:30 PM	Jamie H. Kwon	Transcriptomic analysis of organ transplant donor for the Tabula Sapiens Atlas	Stephen R. Quake Professor of Bioengineering, Stanford University