

Penn Symposium on Mathematical & Computational Biology



Venue: Glandt Forum, [Singh Center for Nanotechnology](#), University of Pennsylvania

Day 1 – Monday, May 23, 2016

8:00 – 8:50		Breakfast & Check-in
8:50 – 9:00	Yun S. Song	<i>Opening remarks</i>
9:00 – 9:50	Steven Altschuler (UCSF)	<i>Reverse engineering wiring principles of the fly eye: how flies avoid double, double, double vision</i>
9:50 – 10:40	Lani Wu (UCSF)	<i>Reverse engineering the neutrophil polarity network</i>
10:40 – 11:10		Break
11:10 – 12:00	Leah Edelstein-Keshet (UBC)	<i>Rho GTPases in cell polarization, shape, and motility</i>
12:00 – 2:00		Lunch
2:00 – 2:50	Sebastian Schreiber (UC Davis)	<i>Species coexistence in stochastic environments: a mathematical perspective</i>
2:50 – 3:40	John Wakeley (Harvard)	<i>The effects of population pedigrees on gene genealogies</i>
3:40 – 4:10		Break
4:10 – 5:00	Lior Pachter (UC Berkeley)	<i>Distance models for phylogenetics</i>
5:30 – 8:30		Reception

Day 2 – Tuesday, May 24, 2016

8:30 – 9:00		Breakfast & Check-in
9:00 – 9:50	Charles Epstein (U Penn)	<i>The amazing Kimura operator</i>
9:50 – 10:40	Caroline Uhler (MIT)	<i>Packing models of chromosomes and their expression</i>
10:40 – 11:10		Break
11:10 – 12:00	Carina Curto (Penn State)	<i>Emergent dynamics from network connectivity: a minimal model</i>
12:00 – 2:00		Lunch
2:00 – 2:50	Charles S. Peskin (NYU)	<i>Optimization of stochastic docking and release of vesicles in synaptic transmission</i>
2:50 – 3:40	Arjun Raj (U Penn)	<i>Probability and determinism in cancer biology</i>