

**UCLA** QCBio

# FRONTIERS IN QUANTITATIVE AND SYSTEMS BIOLOGY SEMINAR SERIES

**JANUARY 11 - MARCH 15, 2019**

A speaker series sponsored by the

**Department of Biomathematics** and the  
**Institute for Quantitative and Computational  
Biosciences (QCBio).**

**Seminars are held Fridays 1-2pm in Boyer Hall.**

**All seminars are free and open to the public.**

For additional information, contact **Tom Chou**,  
Departments of Biomathematics and Mathematics,  
tomchou@ucla.edu or 310-206-2787.

**JAN  
11**



*Uncovering and resolving Challenges of Quantitative Modeling in a Simplified Microbial Community*

**WENYING SHOU**

Affiliate Associate Professor  
Fred Hutch Cancer Research Center - Seattle, WA  
Boyer Hall 159

**JAN  
18**



*In Vitro and in Silico Reconstruction of Actin Dynamics*

**ALEX MOGILNER**

Professor of Mathematics and Biology - Courant Institute  
New York University  
Boyer Hall 130

**JAN  
25**



*Trigger Waves in Cell Signaling*

**JAMES FERRELL**

Professor  
Chemical and Systems Biology/Chemistry  
Stanford University  
Boyer Hall 159

**FEB  
1**



*Inference of Cell-cell Communication Networks and Transition States from Single-cell Transcriptomics*

**ADAM MACLEAN**

Assistant Professor of Biological Sciences  
University of Southern California  
Boyer Hall 159

**FEB  
8**



*Harnessing the Power of Machine Learning for Quantitative Microscopy in Cell Biology*

**JULIE THERIOT**

Professor  
Department of Biology  
University of Washington  
Boyer Hall 130

**FEB  
15**



*Mapping Circadian Modulation of Sleep-wake Dynamics*

**VICTORIA BOOTH**

Associate Professor  
Department of Mathematics  
University of Michigan  
Boyer Hall 159

**FEB  
22**



*Building Low-dimensional Models from High-dimensional Single Cell Data*

**MATT THOMSON**

Assistant Professor  
Division of Biology and Biological Engineering  
Caltech  
Boyer Hall 159

**MAR  
1**



*The Role of Space in Population Dynamics*

**KIRILL KOROLEV**

Assistant Professor  
Department of Physics  
Boston University  
Boyer Hall 159

**MAR  
8**



*Gene Expression Noise Accelerates the Evolution of a Biological Oscillator*

**NICOLAS BUCHLER**

Associate Professor  
Veterinary Medicine  
North Carolina State University  
Boyer Hall 159

**MAR  
15**



*Learning to Soar*

**MASSIMO VERGASSOLA**

Professor  
Department of Physics  
University of California, San Diego  
Boyer Hall 159