

SCIENCE at the Edge

Traditionally distinct scientific disciplines are merging to create new opportunities. Share the excitement and challenge through seminars and discussions with nationally recognized pioneers in Science at the Edge.



MICHIGAN STATE
UNIVERSITY

Fall Semester 2017

Seminars are on Fridays at 11:30 a.m. with refreshments served at 11:15 a.m.
1400 Biomedical and Physical Sciences Building (unless noted otherwise)

September 15

Pankaj Mehta, Department of Physics, Boston University
Understanding Emergent Behaviors in Biology: From Cell Fate to Microbial Ecosystems

September 22

Insoo Hyun, Department of Bioethics, Director of the CWRU Stem Cell Ethics Center, Case Western Reserve University
Biomedical Ethics of Genome Engineering

September 29

James Bardwell, Molecular, Cellular & Developmental Biology, University of Michigan
Watching a Chaperone Fold a Protein at High Resolution

October 6

Sunduz Keles, Department of Biostatistics & Medical Informatics and Department of Statistics, University of Wisconsin, Madison
Statistical Analysis of Global Gene Expression Information

October 13

Orly Alter, Department of Bioengineering, University of Utah
Multi-Tensor Decompositions for Personalized Cancer Diagnostics and Prognostics

October 20

Neil Kane, Director, Undergraduate Entrepreneurship, Michigan State University
Entrepreneurship in STEM

October 27

Sohini Ramachandra, Department of Ecology and Evolutionary Biology and Director of the Center for Computational Molecular Biology, Brown University
Causes and Consequences of Human Genomic Variation

November 10

Rongling Wu, Department of Public Health Sciences and Statistics and Director of Center for Statistical Genetics, Pennsylvania State University
Statistical Genetics and Genomics

November 17

Jeff Gore, Department of Physics, Massachusetts Institute of Technology
A Bottom-up Approach to Microbial Community Assembly

December 1

Arjun Krishnan, Department of Computational Mathematics, Science and Engineering and Department of Biochemistry and Molecular Biology, Michigan State University
Nobody Knew Things Were This Complicated: Data-driven Insights On Complex Disease

December 8

Wen Huang, Animal Genetics and Genomics, Department of Animal Science, Michigan State University
Genetics of Complex Quantitative Traits

Organizers

Carlo Piermarocchi (carlo@pa.msu.edu) & Ruby Ghosh (ghosh@pa.msu.edu)
Interdisciplinary Physics

Richard Lunt (rlunt@egr.msu.edu), Engineering
David Arnosti (arnosti@msu.edu), & George Mias (gmias@msu.edu)
Quantitative Biology/Gene Expression in Development & Disease

Web streaming of Science at the Edge Seminars is available upon request. Please contact the organizers in advance.
