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.

**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)

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**September 15**

Pankaj Metha, 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

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**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.