

## Frontiers in Computational Medicine Seminar Series

Spring 2024, Thursdays at 9-10 AM, CHS 23-105

**April 4, 2024**



***Beyond Cells: Tissue Context and Gene Programs***

**Dana Pe'er, Ph.D.**  
 Chair, Computational & Systems Biology Program, Sloan Kettering Institute  
 Director, Alan & Sandra Gerry Metastasis & Tumor Ecosystems Center  
 Howard Hughes Medical Institute  
[peerster@gmail.com](mailto:peerster@gmail.com)  
<https://www.mskcc.org/research/ski/labs/dana-pe'er>  
 Host: Jason Ernst

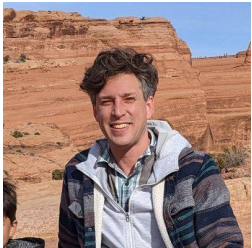
**May 9, 2024**



***Trait-based eco-evolutionary theory.***

**Christopher Klausmeier, PhD**  
 Professor  
 MSU Research Foundation Professor, Kellogg Biological Station, Michigan State University  
<https://www.kbs.msu.edu/kbs-people/faculty/christopher-klausmeier/>  
[klausme1@msu.edu](mailto:klausme1@msu.edu)  
 Host: Van Savage

**April 18, 2024**



***Computationally scalable approaches for large-scale inference in genetics and genomics***

**Nick Mancuso, Ph.D.**  
 Associate Professor of Population and Public Health Sciences, Keck School of Medicine, University of Southern California  
[nmancuso@usc.edu](mailto:nmancuso@usc.edu)  
<https://www.mancusolab.com>  
 Host: Dr. Harold Pimentel

**May 16, 2024**



***Leveraging large-scale epigenetic variation to identify novel context-specific disease mechanisms.***

**Sasha Gusev PhD**  
 Associate Professor, Harvard Medical School & Dana-Farber Cancer Institute  
[Alexander\\_Gusev@dfci.harvard.edu](mailto:Alexander_Gusev@dfci.harvard.edu)  
[gusevlab.org](http://gusevlab.org)  
 Host: Noah Zaitlen

**April 25, 2024**



***Statistical machine learning for learning representations of embryonic development***

**Bianca Dumitrascu, Ph.D.**  
 Herbert and Florence Irving Assistant Professor of Cancer Data Research and Assistant Professor of Statistics  
[bmd2151@columbia.edu](mailto:bmd2151@columbia.edu)  
<https://cancerdynamics.columbia.edu/bianca-dumitrascu-phd>  
 Host: Dr. Brunilda Balliu

**May 23, 2024**



***The Human Pangenome Project: Creating a Reference that Better Represents Human Global Genetic Diversity***

**Karen Miga PhD**  
 Assistant Professor, Biomolecular Engineering Department  
 Associate Director, UCSC Genomics Institute  
[khmiga@ucsc.edu](mailto:khmiga@ucsc.edu)  
<https://migalab.com/>  
 Host: Bogdan Pasaniuc

**May 2, 2024**



***Mathematical modeling of the neurobiology of drug addiction***

**Maria D'Orsogna PhD**  
 Professor of Mathematics, California State University at Northridge  
 Adjunct Associate Professor of Computational Medicine, UCLA  
[dorsogna@csun.edu](mailto:dorsogna@csun.edu)  
<https://www.csun.edu/~dorsogna/index.htm>

**May 30, 2024**



***Simulation and control of high-dimensional dynamical systems***

**Lucas Böttcher PhD**  
 Assistant Professor of Computational Science  
 Frankfurt School and UFL  
[lbottcher@ufi.edu](mailto:lbottcher@ufi.edu)  
<http://lucas-boettcher.info/>  
 Host: Tom Chou