

BCH 252 Seminar Series



Dr. Nikolai Slavov, Allen Distinguished Investigator and Associate Professor, Founding Director of Parallel Squared Technology Institute

Seminar Title: "Learning from protein covariation across single cells: From cell cycle to drug resistance priming"

Biography: Nikolai Slavov received undergraduate education from MIT and a doctoral degree from Princeton University for characterizing the coordination of cellular growth with gene expression and metabolism. The **Slavov laboratory** pioneered **methods for single-cell proteomics** and used them to connect **protein covariation** across single cells to functional phenotypes, including macrophage polarization, emergence of drug resistance priming, early mammalian development, and stem cell differentiation. We also develop new **computational methods** for interpreting our data. The Slavov team has obtained direct evidence for a new regulatory mechanism of protein synthesis (ribosome specialization) and continues to drive research in this emerging field. Prof. Slavov organizes the annual **single-cell proteomics conference** and contributes to organizing other leading conferences, including NeurIPS.

Link to Northeastern University Webpage for Bio & Research Overview:

<https://coe.northeastern.edu/people/slavov-nikolai/>

ZOOM Link: <https://ucr.zoom.us/j/92569273073>

Meeting ID: 925 6927 3073

Passcode: 689525

Tuesday, April 25, 2023

12:00 p.m. - 12:50 p.m. PST

Host: Dr. Maria Ninova