Department of Applied and Computational Mathematics and Statistics Colloquium

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Mapping Cell States from Single-Cell Gene Expression Data

Characterizing cellular hierarchy has profound implications in development and diseases. Single-cell technologies have great potential in discovering new cell types and lineage relationships, but there remain technical and conceptual challenges. In this talk, I will discuss our effort to overcome these challenges. In particular, I will present several computational methods we have recently developed. I will also discuss the perspective of using attractors and bifurcations to understand the dynamics of cell-fate transitions.

Monday, March 6, 2017
4:15 PM – 5:15 PM
127 Hayes-Healy Center

Colloquium Tea   3:45 PM to 4:15 PM   154 Hurley Hall