MIDAS MICHIGAN INSTITUTE FOR DATA SCIENCE UNIVERSITY OF MICHIGAN

Seminar Series

Detection structure and patterns in big biomedical data

High-throughput, high-dimensional data has become ubiquitous in the biomedical and health sciences as a result of breakthroughs in measurement technologies like single cell RNA-sequencing, as well as vast improvements in health record data collection and storage. While these large datasets containing millions of cellular or patient observations hold great potential for understanding generative state space of the data, as well as drivers of differentiation, disease and progression, they also pose new challenges in terms of noise, missing data, measurement artifacts, and the so-called "curse of dimensionality." In this talk, Smita will cover a unifying theme in her research which has helped to generally tackle these problems: *manifold learning* and the associated manifold assumption.

LEARN MORE:

Friday, October 4, 2019 | 3:00PM—4:00PM |
Palmer Commons, Forum Hall, 100 Washtenaw Ave.

For more information, including a link to a live video stream when available, visit midas.umich.edu/seminar-series

FEATURED SPEAKER

Smita Krishnaswamy, Assistant Professor, Genetics and Computer Science, Yale School of Medicine

MIDAS gratefully acknowledges Wacker Chemie AG for supporting the MIDAS Seminar Series.

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