

Seminario Aleatorio

Sesión 428

Application of mathematics to modern biological technologies

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Abstract

Modern biological technologies measure human biology in unprecedented scale and complexity. While such technologies have great potential to improve our understanding of human health and disease, there is an increasing need to develop rigorous mathematical modeling approaches for the analysis of such data. In this talk, we discuss how several technical challenges necessitate the development of appropriate statistical methods, including mixed measurements, noisy data, and technical measurement effects. We develop a statistical framework accounting for these challenges to identify cell types and gene expression changes within spatially-indexed cellular datasets. We will also discuss opportunities in the field of biostatistics more broadly including graduate programs in biostatistics as well as research areas in biostatistical methodology, clinical studies, and genomics.

Introduction to Graduate Program at the University of Michigan

Mike Boehnke

20 min + 10 min Q&A

Seminario vía zoom:

https://itam.zoom.us/j/94446870531?pwd=cnBuakIwWDFmR2lvZkxLSU5hcFQyUT09

Meeting ID: 944 4687 0531 Passcode: 774808

> Viernes 13 de septiembre de 2024, 13:00 horas de CDMX