Quantitative Biology Symposium

JUNE 8, 2023 | 8 A.M. - 6 P.M.
CELL & DEVELOPMENTAL BIOLOGY
SIMPSON QUERREY AUDITORIUM
303 E. SUPERIOR ST.
CHICAGO, IL 60611

Logo Designed by: Emilia Hojel

The **Quantitative Biology Symposium** will showcase the power that quantitative and computational methodologies offer to open questions in cell and developmental biology. The day-long event includes lectures by scientists seamlessly treading the boundaries between biology and other disciplines, interactive activities between experimental and computational participants, and hands-on workshops covering a range of topics. The collective goals for the event are to catalyze interactions between cell and developmental biologists and mathematicians / physicists / statisticians / engineers and unveil the potential of quantitative methodologies to trainees across the broader Chicagoland area.

WORKSHOP FACILITATORS

Beyond Pretty Pictures: Extracting Quantitative Data from Series of Images

PATRICK OAKES
Loyola University Chicago

Using Mathematical Models and Simulations to Explore Biology

PAUL MACKLIN
Indiana University

As Simple as Possible, But No Simpler: Dimension Reduction in Biological Modeling

TIM TRICHE
Van Andel Research Institute

AND

ZACH DEBRUINE
Van Andel Research Institute

SEMINAR SPEAKERS

Quantitative Biology of Gastrulation

STANISLAV SHVARTSMAN
Princeton University

Physical Constraints in Organismal Development

ELENI KATIFORI
University of Pennsylvania

The Mathematical Basis of Constraints Driving Drosophila Wing Form

RICHARD CARTHEW
Northwestern University

Soft Modes Imply a Duality Between Evolutionary and Physiological Variation

ARVIND MURUGAN
University of Chicago

Building Biological Models for Metabolic and Regulatory Systems: Traditional and Data-Driven Approaches

NIALL MANGAN
Northwestern University

ORGANIZERS: BRIAN MITCHELL, LUISA ARISPE, MADELINE MELZER, AND YOGESH GOYAL

REGISTER TODAY
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For questions, please contact:
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