

# National Institute for Theory and Mathematics in Biology Funded by the U.S. National Science Foundation and the Simons Foundation



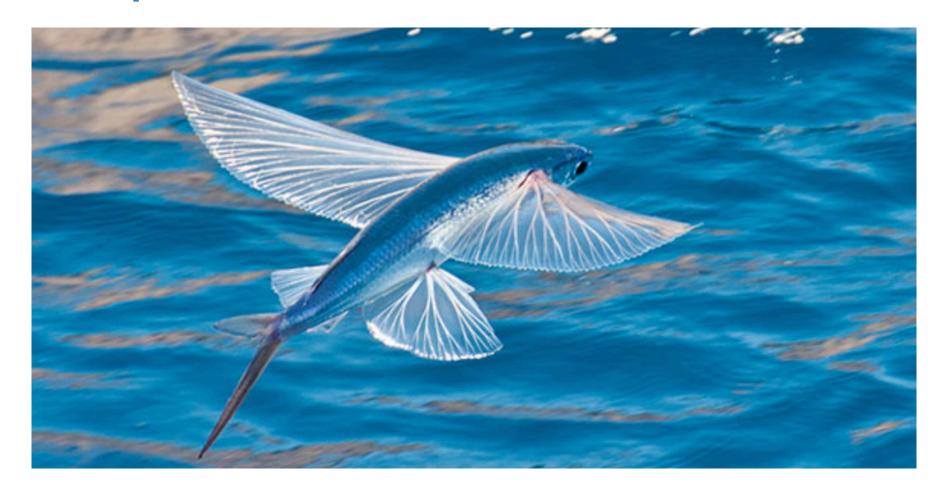






## Understand the mathematical basis of constraints that drive biological capabilities

Capabilities



Constraints



Develop new mathematics inspired by biology



#### Get involved with the NITMB:

- External Research Projects
- Scientific Workshops
- Visiting Scholars
- NITMB MathBio Convergence Conference
- NITMB Fellows Program
- Summer Undergraduate Research
- Public Lectures

#### External Research Projects

- Each year NITMB solicits proposals for external research grants
- Eligibility: An active appointment at a U.S. academic institution
- 24 months and \$150k (direct + indirect)
- Funds can be used to support the stipend/salary/fringe of graduate and undergraduate research assistants and postdoctoral scholars
- No more than \$10,000 on experimental supplies and services or \$1,200 on travel (direct costs)
- Indirect cost rate limited to 20%

Applications in the Winter



#### Visiting Scholars Program

The NITMB can provide travel/housing expenses or a living stipend

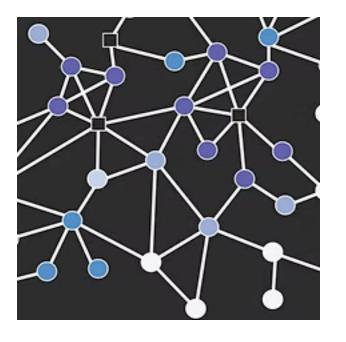
- Long-term (from 10+ days to 6 month sabbatical stays)
- Concentrated research teams
- Post-workshop synthesis teams
- Visiting collaborations for trainees

(Rolling Applications)

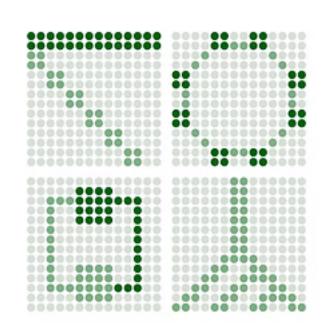
#### NITMB Affiliate Membership

• Regular, pre-approved participants in NITMB programs

#### Scientific Workshops



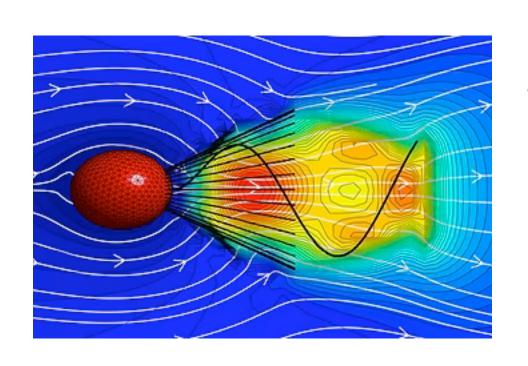
New Developments in the Theory and Methodology of Graph Neural Networks



Modeling and Theory in Population Biology



Mathematics of the Origin of Life and Self-Organized Complexity



21-25 July 2025
Mathematical Modeling,
Computational Methods, and
Biological Fluid Dynamics:
Research and Training

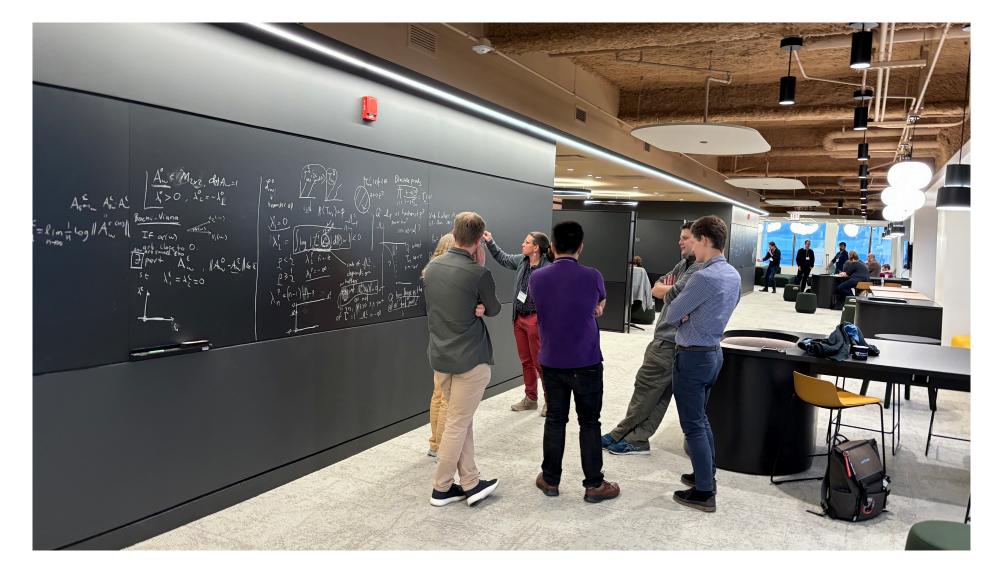
Don't see one in your research area? Propose a Workshop!

(Rolling Applications)



#### MathBio Convergence Conference — August 11-14

- 3 1/2 days, Monday Thursday noon
- 6 plenary speakers
- 20 oral speaking slots (open submissions)
- 2 poster sessions (open submissions)
- Priority for early-career presenters
- Professional networking & career development activities
- Travel awards! (Including for PUIs/TIIs)
- At Drake Hotel next door to NITMB (Auditorium limited to 150 attendees)



Organizing Committee:
Sharon Crook, Arizona State University
Adriana Dawes, Ohio State University
Bard Ermentrout, University of Pittsburgh
William Kath, Northwestern University
Ilaria Rebay, University of Chicago
Michael Rust, University of Chicago

#### NITMB Fellows Program

- Three-year independent postdoctoral fellowships for recent PhDs
- Not tied to a project; NITMB Fellows develop their own research plans
- Competitive salary
- Ample research and travel expense budget
- No teaching duties
   (but teaching assignments are available upon request)
- Applications in the Fall



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