



# Hands-on Undergraduate Workshop: Exploring the Interplay Between Malaria and Economic Growth



University of Florida, Gainesville | Spring 2025 (March 26-30, 2025)

## Tentative program

### Wednesday March 26, 2025

- 5:00 pm – 5:30 pm Registration, welcome, and introductions (in-person and virtual)
- 5:30 pm – 6:00 pm Panel discussion: Life cycle of a research project (in-person and virtual)
- 6:00 pm – 6:30 pm Project discussion and assignment (in-person and virtual)
- 6:30 am – 8:00 pm Dinner

### Thursday March 27, 2025

- 8:00 am – 8:30 am Breakfast (Provided)
- 8:30 am – 9:00 am Opening Remarks by the Organizers and Department Chair
- 9:00 am – 9:15 am Introductions, Logistics, Expectations
- 9:15 am – 9:30 am Presentation of program
- 9:30 am – 10:30 am Keynote Speaker
- 10:30 am – 11:00 am Coffee break
- 11:00 am – 12:00 pm Lecture 1: Introduction to infectious disease modeling
- 12:00 pm – 1:00 pm Lunch
- 1:00 pm – 2:00 pm Hands-on modeling experiment for Lecture 1
- 2:00 pm – 3:00 pm Lecture 2: Developing and analyzing disease models
- 3:00 pm – 3:30 pm Coffee break
- 3:30 pm – 4:30 pm Hands-on modeling experiment for Lecture 2
- 4:30 pm – 5:30 pm Panel discussion: Overcoming undergraduate research challenges
- 5:30 pm – 7:00 pm Dinner (Not provided)
- 7:00 pm – 8:30 pm Project (groupwork) and one-on-one mentoring

### Friday March 28, 2025

- 8:00 am – 8:30 am Breakfast (Provided)
- 8:30 am – 9:30 am Lecture 3: Model parametrization
- 9:30 am – 10:30 am Hands-on modeling experiment for Lecture 3

10:30 am – 11:00 am Coffee break  
11:00 am – 12:00 pm Project update presentation and discussion  
12:00 pm – 1:00 pm Lunch (Provided)  
1:00 pm – 2:00 pm Lecture 4: Infectious disease model evaluation and comparison  
2:00 pm – 3:00 pm Hands-on modeling experiment for Lecture 4  
3:00 pm – 3:30 pm Coffee break  
3:30 pm – 4:30 pm Panel discussion: Opportunities in mathematical biology  
4:30 pm – 6:00 pm Dinner (Not provided)  
6:00 pm – 8:00 pm Project (groupwork) and one-one-one mentoring session

### **Saturday March 29, 2025**

8:00 am – 8:30 am Breakfast (Provided)  
8:30 am – 9:30 am Lecture 5: Modeling for policy  
9:30 am – 10:30 am Hands-on modeling experiment for Lecture 5  
10:30 am – 11:00 am Coffee break  
11:00 am – 12:00 pm Project presentation and discussion  
12:00 pm – 1:00 pm Lunch (Provided)  
1:00 pm – 2:00 pm Lecture 6: Integrating disease and economic models with human behavior  
2:00 pm – 3:00 pm Hands-on modeling experiment for Lecture 6  
3:00 pm – 3:30 pm Coffee break  
3:30 pm – 4:30 pm Panel discussion: Work life balance for mathematical biologists  
4:30 pm – 6:00 pm Dinner (Not provided)  
6:00 pm – 8:00 pm Project groups and one-one-one mentoring session

### **Sunday March 30, 2025**

8:00 am – 8:30 am Breakfast (Provided)  
8:30 am – 10:00 am Finalize group projects  
10:00 am – 10:30 am Coffee break  
10:30 am – 11:50 am Student Presentations  
11:50 am – 12:00 pm Closing remarks  
12:00 pm – 1:00 pm Lunch (Provided)  
1:00 pm – 3:00 pm Departure/Excursion (Optional)