

QBioS Hands-On Modeling Workshop Program

Georgia Institute of Technology

May 14-15, 2018

Instructors:

Prof. Joshua Weitz & QBioS Ph.D. students including members of the (i) 2017 cohort: Kai Tong, Guanlin Li, Mengshi Zhang, Akash Vardhan, Daniel Muratore, Brandon Pratt, Kelimar Diaz; and the (ii) 2016 cohort: Nolan English and Ali Zamani.

Sponsors:

Georgia Institute of Technology & the Burroughs Welcome Fund

May 14 Schedule

- 8:30am Registration
- 9:00am Welcome by Prof. Joshua Weitz
- 9:05am Introduction to **Evolutionary Dynamics: Part I**
- 10:25am Coffee Break
- 10:45am Introduction to **Evolutionary Dynamics: Part II**
 - ✓ Paper discussion (to be distributed in advance of workshop)
- 12:00pm Lunch
- 1:00pm Introduction to **Computing: Part I**
 - ✓ MATLAB or Python, variables and data types, loops
- 2:20pm Coffee Break
- 2:40pm Introduction to **Computing: Part II**
 - ✓ Conditional statements, functions, data visualization

May 15 Schedule

- 9:00am **Evolutionary Dynamics Modeling Exercise: Part I**
- 10:20am Coffee Break
- 10:40 am **Evolutionary Dynamics Modeling Exercise: Part II**
- 12:00 pm **Lunch**
- 1:00pm **Individual discussions on modeling & additional time to complete the morning exercise**