

Combining biology and computation to create richer assignments in first-year courses

June 22, 2017

Location: Clark S361 **Time:** 3:30am-4:30pm **RSVP:** <https://goo.gl/forms/GwFAJTjvtVqrtKGn1>

Please join us in welcoming Associate Professor Eliot Bush of Harvey Mudd College, the second event in a short series of evidence-based teaching presentations for postdocs in summer 2017. Professor Bush is a leader in innovative quantitative biology education and an author of “Computing for Biologists: Python Programming and Principles”, an undergraduate textbook that emphasizes the deep conceptual connections between biology and computing while helping students develop foundational computational skills. He’ll describe a set of interdisciplinary courses he has helped develop that use biology to motivate learning computing, and computing to enrich introductory biology. He’ll also discuss (and answer questions about) what it’s like to work at a liberal arts college and how one would go about getting a job at such a place.

Coffee will be provided, and registration is free and first-come, first-served for all Stanford postdocs. This event is generously funded by an innovation award from the Stanford Teaching and Mentoring Academy. Please contact Lawrence Uricchio (uricchio@stanford.edu) with any questions.

Professor Eliot C. Bush, Harvey Mudd College



Eliot Bush is Associate Professor of Biology at Harvey Mudd College. He received an A.B. from Harvard University and a Ph.D. from the California Institute of Technology, both in biology. His main research interest is the study of evolution. A love for computers (and a poor pair of hands in the lab) has consistently drawn him to computational approaches. Among other things he has modeled the evolution of metabolism, characterized DNA methylation patterns in insects, and developed algorithms for identifying horizontal transfer events in bacteria. His teaching interests focus on incorporating computers and programming assignments into biology coursework. He is co-author (along with Ran Libeskind-Hadas, HMC CS dept.) of a textbook that introduces programming and computer science concepts to biologists, and has co-authored several articles about incorporating computational techniques in undergraduate biology training.

Schedule

- 3:15 pm: Coffee and meet/greet
- 3:30 pm: Seminar
- 4:20 pm: Q&A

RSVP at <https://goo.gl/forms/GwFAJTjvtVqrtKGn1> by June 21, 2017.

Questions/inquiries: Lawrence Uricchio (uricchio@stanford.edu)