

Malcolm Augat

Education

2009

Bachelor of Arts, *Swarthmore College*

Majored in Computer Science (GPA 3.88) and Biology (GPA 3.62)

Experience

2022 – NOW

Beekeeper, *Siller Pollinator Company*

2018 – 2022

Baker, *Bodo's Bagels*

Worked as part of a team to bake bagels, take orders, and make sandwiches.

2018 – 2019

Biology Tutor, *PrepNow LLC*

Taught high school students biology concepts through online meetings.

2010 – 2017

PhD Student, *University of Virginia Department of Biology*

Dr. Edmund Brodie III's laboratory, (left program without degree)

Designed and implemented experiments to investigate how flowering plants evolve.

- Mentored several undergraduate students, including helping them design experiments, teaching them to read scientific literature, meeting regularly, and helping them interpret and communicate their results.

Teaching assistantships

2017

Genetics and Molecular Biology

Met weekly with three classes of thirty students, divided into groups of 3–4. Groups worked together to solve genetics problems, while I offered help, mediated disputes, and graded their responses. Topics included the molecular mechanisms of replication and transcription, as well as probabilistic models of trait inheritance.

2016

Microbiology Laboratory

Helped students set up and maintain cultures of various bacteria, and interpret their growth results.

2012, 13, 15

Introduction to Organismal and Evolutionary Biology Laboratory

Used small experiments and observations of organisms to teach students about major branches in the tree of life and how natural selection can shape populations.

2013, 14

Cell Biology and Genetics Laboratory

Taught students how to set up and interpret simple experiments in a lab setting.

2014

Biology of Infectious Disease

Met weekly with three sets of 24 students to discuss disease ecology. I was responsible for guiding the discussion and organizing side projects. Topics included the natural history of several types of disease, as well as mathematical models of disease transmission.

2011, 12

Functional Morphology of Vertebrates

Helped students dissect vertebrate specimens and identify organs each week, wrote and graded quizzes each week testing their ability to synthesize what they saw and place it in a broader context.

Relevant skills and knowledge

- Classroom management, exam and quiz writing, personal instruction, Socratic method
- Scientific method, experimental design
- Evolutionary biology, ecology, genetics
- Probability, regression-based statistics
- Programming, computer science
- Calculus, linear algebra