

Summary of Teaching Experience

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Laboratory Training – I have trained students, from high school to college level, in technical lab skills in a mycology lab. I also worked on bioinformatics, programming, statistics, writing, and presentation skills with these students. Training involved demonstrating and explaining bench tasks, assisting with development of figures or writing, feedback on work, or writing of modules.

- [Python for Beginners](#) training modules

Undergraduate Learning Assistant – I assisted in teaching and learning in a computational modeling course over 3 semesters. I helped students in a flipped classroom, primarily with answering question and helping to address problems they encountered while attempting to complete class activities. I also hosted help room hours, where students could work on homework or projects with my assistance. Additionally, I helped develop and write assignments and exams, evaluate course activities, and engaged in pedagogical discussion with the other course instructors and assistants.

Teaching Assistant (TA) – I taught three sections of a non-majors biology lab (Applications in Biological Science Laboratory), which focused on the nature of science, information literacy, and fundamental biological ideas. I was the sole instructor responsible for the sections, but I worked with other TAs and the professor of record to organize assignments, instructional content, projects, and an exam. I led introductions to topics by lecture, followed by lab activities in which I guided students. I was also responsible for student communications, grading, organizing student project plans, and office hours.

Outreach Activities – In my roles as part of the undergraduate Plant Biology Club, International Genetically Engineered Machine (iGEM) Competition Team, and Plant Biology Graduate Student Organization at Michigan State University (MSU), I planned and presented at multiple outreach events. These events were focused in the greater Lansing, MI area, and included venues at a public library, children's science museum, elementary schools, and MSU events such as Fascination of Plants Day and Science Festival. For these events, I organized demonstrations and materials, as well as training other presenters. Generally, the audience for these talks was K-8 children, but often involved parents and younger siblings. The content involved focused on photosynthesis, DNA, microbiomes, plant structures and function, lab tools, or evolution and adaptation.