Melissa Zavez

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Education

Swarthmore College   September 2016 – May 2020

Major in Computer Science with a minor in Statistics

- ○ **Relevant Coursework:** Data Structures & Algorithms, Statistical Methods II, Data Science, Calculus II, Computer Animation, Bioinformatics, Networks, Linear Algebra
- ○ **Skills:** C++, R, C, Python, GDB, Valgrind

Leadership and Work Experience

Research Assistant – Department of Statistics at Swarthmore College   Summer 2018

- ○ Wrote R code to estimate the duration of the Cambrian Explosion
- ○ Utilized a revised dataset of fossil occurrences to estimate earliest and latest originations
- ○ Title: Estimating the Duration of the Cambrian Explosion, Authors: Madison Shoraka, Melissa Zavez, Harsha Sen, Steve Wang
- ○ Presented at Sigma Xi Poster Session, and will present at the Geological Society of America Annual Conference in November

Robot Engineering Intern – Jibo   Summer 2017

- ○ Developed, designed and executed tests for the Jibo robot
- ○ Conducted user study with 60 + people, collected data on accuracy of computer vision software and facial detection

Calculus Teaching Assistant – Swarthmore College   Fall 2018

- ○ Encouraged collaboration amongst students, feel more confident about own math/problem-solving abilities, Fill in knowledge / understanding gaps
- ○ Lead weekly help session, attend weekly meetings with faculty

Grader – Computer Science Department at Swarthmore College   Fall 2018

- ○ Wrote automated tests using Python to grade labs

Student Academic Mentor – Swarthmore College   Fall 2017 – Spring 2018

- ○ Orientation leader, assisted freshmen with transition to academic and social environment in college; acted as a liaison with faculty and deans
- ○ Residential hall leader and academic mentor, helped residents develop time management and organization skills, study strategies and other academic skills

Technovation Challenge – Team AMEKA   Summer 2015

- ○ Designed, built and pitched an application, along with a business and marketing plan, to compete in the Technovation competition
- ○ Placed third world-wide, presenting at a week-long San Francisco conference

Activities & Interests at Swarthmore College

Varsity Field Hockey   Fall 2016
Offbeat A Capella   Fall 2016 – Present
TOPSoccer Coordinator   Spring 2017 – Present
Club Ice Hockey President (former treasurer)   Spring 2017 – Present