

# Melissa Zavez

melissazavez.github.io • Swarthmore College • mzavez1@swarthmore.edu • (781)301-1309

## Education

### **Swarthmore College**

September 2016 – May 2020

*Major in Computer Science with a minor in Statistics*

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

## Leadership and Work Experience

### **Research Assistant – Department of Statistics at Swarthmore College**

Summer 2018

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

### **Calculus Teaching Assistant – Swarthmore College**

Fall 2018

- Lead weekly review sessions, assist students with problem sets
- Meet weekly with professor and other faculty

### **Grader – Computer Science Department at Swarthmore College**

Fall 2018

- Wrote automated tests using Python

### **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

### **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