

# KATHERINE ATWELL

kaa139@pitt.edu • 301-524-2581 • <https://github.com/katherine-atwell> •  
<https://www.linkedin.com/in/katherine-atwell-530186128/>

## EDUCATION

### **University of Pittsburgh**

PhD Student in Computer Science

*Expected: May 2025*

### **University of Maryland, Baltimore County (UMBC)**

B.S., Mathematics, B.S., Computer Science, GPA: 3.7

*May 2020*

## WORK EXPERIENCE

### **Google, Inc., Mountain View, CA - Software Engineering Intern.....Summer 2019**

- Calculated several statistics, including mean, median, standard deviation, and Spearman's Rank correlation, and plotted them on different charts using **Javascript** and the **Google Charts** API
- Displayed info about summary statistics on the UI for the user to view, and gave the user the option to display these statistics
- Authored a design doc for this tool and for a future backend request for these calculations

### **College of Engineering and Information Technology, UMBC - Teaching Assistant.....Spring 2019-May 2020**

- Held office hours, proctored exams, and graded assignments for Computer Science II

### **College of Natural and Mathematical Sciences, UMBC - Teaching Assistant.....Fall 2018**

- Led discussions and graded assignments for Professor Bonny Tighe's Calculus I class

### **Google, Inc., Mountain View, CA - Engineering Practicum Intern.....Summer 2018**

- Built a web application containing the UI and frontend for an internal tool for the YouTube team which showcases the differences between two different internal processors
- Authored a design doc and created mock-ups for the UI, wrote code for the web pages, integrated randomly-generated data into the chart, used internal tools to bring application up on a server and to continuously run the file that generated data. Used this data to populate the chart
- Developed this tool with **Python**, using the **Flask microframework** to build and deploy the application, and programmed the UI with **HTML**, **CSS**, and **Javascript**, creating the chart with the **Dygraphs** charting library

### **Learning Resources Center, UMBC - Math and Science Tutor.....September 2017 - Spring 2019**

- Tutored students in Precalculus, Calculus I-III, Physics I, Discrete Structures, Statistics

## RESEARCH EXPERIENCE

### **University of Pittsburgh - PhD Student.....Fall 2020-Present**

- Currently conducting Natural Language Processing research under the supervision of Dr. Alikhani

### **Summer Program for Interdisciplinary Research and Education – Emerging Interface Technologies**

### **Research Experience for Undergraduates, Iowa State University - Research Intern.....Summer 2017**

- Took courses in **C++**, **Unity**, **Maya**, **Solidworks**, and 3-D printing
- Followed rapid prototyping principles and used **Axure RP 8** and Microsoft Powerpoint to design, mock, and showcase a user interface for a program which will eventually replace traffic incident managers' software packages at the Iowa Department of Transportation

## HONORS

- **Grace Hopper Travel Scholarship Recipient** *September 2018, September 2020*
- **Meyerhoff Scholar, UMBC** *July 2016 – May 2020*
- **Honors College member, UMBC** *August 2016 – May 2020*
- **Outstanding Achievement in Computer Science Award, UMBC** *May 2020*