

# MARGARET REED

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## EDUCATION

Duke University  
NC

Durham,

**BS in Data Science (IDM), minor in Mathematics**  
2022

May

- Unweighted Cumulative GPA: 3.705
- Dean's List Spring 2019
- **Relevant coursework:** CS101 (Intro to Computer Science, *Python*), STA112 (Data Science, *R*), CS201 (Data Structures and Algorithms, *Java*), MATH230 (Probability), MATH221 (Linear Algebra), CS216 (Everything Data, *Python*), STA210 (Regression Analysis, *R*), MATH356 (Differential Equations), CS330 (Design/Analysis of Algorithms), CS371 (Elements of Machine Learning, *Python*), STA360 (Bayesian and Modern Statistics, *R*)
- Will be taking: STA323 (Statistical computing, *R*, *SQL*), STA432(Stat. Learning and Inference), MATH431(Real Analysis)

## JOB EXPERIENCE

Amazon Inc., **SDE Intern**

May - Aug. 2020

- Learned and adapted to the team's architecture quickly.
- Developed an internal query tool, owning both the frontend and backend aspects of the project.
- Manipulated and queried data from large databases.
- Leveraged skills in Java, JS, and SQL for development.

Duke University Math Department, **Math Tutor**

Jan. 2020

- Present

- Helped students with homework and questions regarding Multivariable calculus.

Duke University Admissions, **Campus Tour Guide**

July -

Aug. 2019

- Gave tours around Duke campus for prospective students. Gained experience with public speaking and interacting with a variety of different people.

Clinical Tools Inc., **Research Intern**

June -

Aug. 2017

- Researched opioid addiction and obesity and how to best educate medical professionals and their patients about fighting these problems. Created online tools to assist medical professionals in the treatment of their patients, such as VR games for teaching patients about healthy vs not healthy foods.

## TECHNICAL EXPERIENCE

Bluebonnet Data, **Political Data Fellow**

Aug. 2020

- Present

- Trained on political data methods, such as how to work with census data, the voter file, and VAN.
- Served as a volunteer data analyst for a down ballot democratic campaign in the 2020 cycle.
- Provided analyses and insights to help the campaign more efficiently target voters, place ad buys, place yard signs, understand early voting numbers, and understand their district demographics (R, Python).

Duke Bass Connections Team, **Undergraduate Researcher**

Aug. 2019 -

May 2020

- In a team of 10, created a Shiny app to model and educate the public about the insights gained by research done in the ELA (Experimental Lake Area). (RShiny, HTML)
- Employed various techniques for data cleaning, multivariate representation, and web development
- Collaborated on podcast creation for the ELA.

Duke DataFest 2019

April 2019

- In a team of 3, created a model measuring fatigue recovery in order for players and their coaches to best understand how to minimize fatigue to improve game performance. (R, Python)
- Won top prize in data visualization for analyzing how women rugby players move around the field during the games in order to identify players. Presented findings at the Durham chapter of RLadies meetup Oct. 2019.

## RELEVANT SKILLS

- Proficiency in R, Python, Java, SQL, Git, JavaScript
- Basic proficiency in HTML, CSS
- Working with a group in both remote and in-person settings
- Public speaking and communication

## **EXTRACURRICULAR ACTIVITIES**

### **DTech Scholar**

#### **April 2020 - Present**

- Selected to participate in a leadership development program for high-potential women pursuing technical careers.
- Engaged in skill development, networking, and mentoring activities.