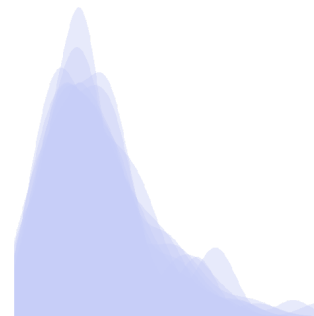


# ELLEN GRAHAM

A statistics and data science student looking to do meaningful research and build projects that promote social good.



## EDUCATION

2021

### B.A., Applied Mathematics & Statistics, Computer Science

Macalester College

St. Paul, MN

- Key Coursework: Bayesian Statistics, Mathematical Statistics, Markov Chains & Processes, Introduction to Data Science, Computational Linear Algebra, Software Design & Development
- GPA: 4.0



## PROFESSIONAL EXPERIENCE

2019

### Research Assistant

Macalester College

St. Paul, MN

- Built a [Shiny app](#) for analyzing longitudinal categorical data
- Researched methods and algorithms for clustering categorical longitudinal data
- Analyzed datasets on healthcare and sleep using our Shiny app
- Collaborated both in person and remotely with a 4 student 1 professor team

2019  
|  
2018

### Teaching Assistant

Macalester College

St. Paul, MN

- Assisted professors in running the Introduction to Data Science course at Macalester College
- Provided coding assistance during class
- Helped teach concepts such as working with APIs and geospatial data
- Held office hours to help students with topics and projects

2018

### Instructor

Exploration Summer Programs

Wellesley, MA

- Taught introductory programming to over 30 students from a wide variety of backgrounds
- Assisted with building the curriculum for my course
- Worked independently and in small teams to design and run activities for students



## VOLUNTEERING

2019

### Facilitator

Macalester College Data Science for Social Good

St. Paul, MN

- Co-run Macalester's Data Science for Social Good group
- Connect with local organizations such as Metro Transit to bring data projects to students
- Teach students methods for doing real world data analysis

## CONTACT INFO

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📍 1600 Grand Ave  
St. Paul, MN 55105

## SKILLS

Experienced with data collection, manipulation, analysis, & visualization

Experienced with collaboratively building software in small groups.

Highly experienced with R, R Shiny

Experienced with Java, Python, Flask, Javascript, SQL

## SELECTED PROJECTS

*Clustering Longitudinal Categorical Data:* A Shiny app I helped build while I was a research assistant for professor Brianna Heggseth

*Assassin:* A mobile app I helped build for my Software Design & Development Class