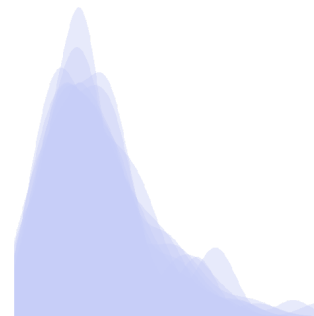


# ELLEN GRAHAM

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

- Selected Coursework: Bayesian Statistics, Markov Chains and Processes, Introduction to Data Science, Introduction to GIS, Computational Linear Algebra, Software Design and Development

- GPA: 4.0



## PROFESSIONAL EXPERIENCE

2020  
|  
2018

### Preceptor

Macalester College

📍 St. Paul, MN

- Assist professors in running the Introduction to Data Science and Computational Linear Algebra courses at Macalester College
- Provide coding assistance during class
- Help teach concepts such as working with APIs, and geospatial data, and computational methods
- Hold office hours to help students with topics and projects

2019

### Research Assistant

Macalester College

📍 St. Paul, MN

- Built an [R Shiny app](#) for clustering longitudinal categorical data
- Researched methods and algorithms for clustering longitudinal categorical data
- Analyzed data sets on healthcare and sleep using our Shiny app
- Demonstrated project to both professors and other students at Macalester

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
- Note: This job was done with my previous legal name



## VOLUNTEERING

2020  
|  
2019

### Facilitator

Macalester College Data Science for Social Good 📍 St. Paul, MN

- Co-create Macalester's Data Science for Social Good group
- Build relationships with local organizations such as Met Council and Metro Transit to bring speakers and projects to students
- Connect students with real world problems and ideas in their community

## CONTACT INFO

✉ [ellen.graham.403@gmail.com](mailto:ellen.graham.403@gmail.com)

🐙 [github.com/grahamammal](https://github.com/grahamammal)

## SKILLS

Communicating statistical methods and results

Data collection, manipulation, analysis, and visualization

Leading small groups to collaboratively build software projects

Highly experienced with R, R Shiny

Experience with Java, Python, ArcGIS Pro, JavaScript, SQL

## SELECTED PROJECTS

[Clustering Longitudinal Categorical Data](#): A Shiny app I helped build while I was a research assistant for professor Brianna Heggeseth

[Assassin](#): A mobile app I helped build for my Software Design and Development Class