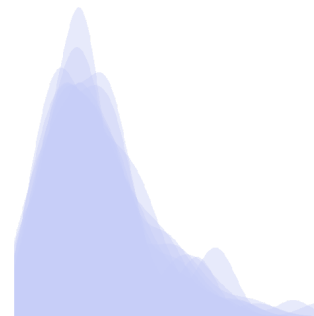# ELLEN GRAHAM

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, Markov Chains and Processes, Introduction to Data Science, Computational Linear Algebra, Software Design and Development, Medical Geography, Ethics
- 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 data sets on healthcare and sleep using our Shiny app
- Demonstrated project to both professors and other students at Macalester

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

🤝 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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- github.com/grahamammal
- 📞 +1 360-464-5573
- 📍 1600 Grand Ave
  St. Paul, MN 55105

SKILLS

Data collection, manipulation, analysis, and visualization

Leading small groups to collaboratively build software projects

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 Heggeseth

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

Last Updated: 2020-01-19