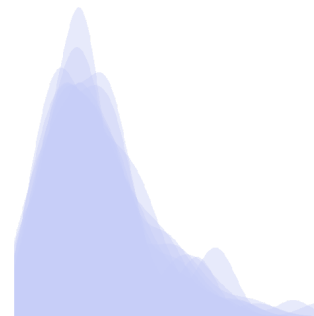


ELLEN GRAHAM

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 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

2019

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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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📞 +1 360-464-5573

📍 1600 Grand Ave
St. Paul, MN 55105

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

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 and Development Class