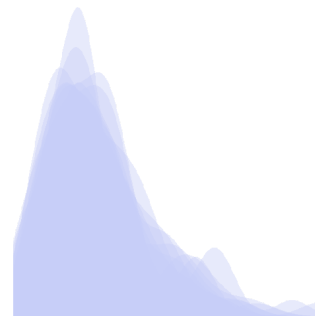


ELLEN GRAHAM

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

2019-
2020

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

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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

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 Heggseth

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