Ellen Graham
Statistics and Data Science

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Education

2017–Present   **Bachelor of Arts**, *Macalester College*, St. Paul, MN, *4.0*.
Applied mathematics and statistics and computer science double major.
Relevant Coursework:
- Statistics: Introduction to Statistical Modeling, Introduction to Data Science, Mathematical Statistics, Markov Chains and Processes
- Computation: Object Oriented Programming, Software Design and Development, Computational Linear Algebra

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Experience

Vocational

May 2019–July 2019   **Research Assistant**, *Macelester College*, St. Paul, MN.
Worked with a professor and a small team of other students to build tools for analyzing longitudinal categorical data. Code for a sample of this project can be found on pinned on my GitHub or linked on my website.
Work included:
- Researched methods and algorithms for clustering longitudinal categorical data
- Built a Shiny app using R to streamline analysis of methods and data
- Analyzed datasets on health and sleep using our Shiny app
- Collaborated both in person and remotely with a small team

Sept. 2018–May 2019   **Preceptor**, *Macalester College*, St. Paul, MN.
Assisted a professor in running the Introduction to Data Science course at Macalester College.
Work included:
- Provided coding assistance during class
- Helped to teach concepts such as working with APIs and geospatial visualization
- Held office hours to help students with topics and projects

June 2018–Aug. 2018   **Instructor**, *Exploration Summer Programs*, Wellesley, MA.
Worked as an instructor and camp counselor at the EXPLO at Wellesley summer program for over 500 rising 8th and 9th grade students.
Work Included:
- Taught introductory programming to over 30 students from a wide variety of backgrounds
- Worked with full time teachers to build the curriculum for my course
- Worked alone or in small teams to design and run activities for students

Volunteering

Oct. 2019-Present **Co-Coordinator, Data Science for Social Good**, *Macalester College*, Building relationships with local organizations to bring meaningful data science projects to Macalester students, and teach them how to approach and solve such real world problems with data tools.,

Technical skills

R/RStudio, R Shiny, Git/GitHub, Python, Flask, Java, JavaScript, React Native, SQL, Postgres, Excel, LaTeX, Markdown, Blogdown