# Sarah Thomson

Saint Paul, MN
(608)-807-7951
sthomson@macalester.edu

## Education

**Bachelor of Arts in Data Science**                                                   Class of 2027
Macalester College, St. Paul, MN                                                    GPA: 4.0
Minors: Biology, Spanish

## Research Experience

*University of Minnesota Twin Cities School of Public Health*                 (Summer 2025)
Summer Research Intern
- Performed clustering analysis and used mixed-effects models to evaluate subgroup variation in psychopathology among adolescent Asian Americans
- Coded narrative-driven interactive web app with R Shiny package and presented poster to communicate research findings to the university community
- Attended equitable data science and community-engaged research seminars

*Pepperell Lab at the University of Wisconsin-Madison*                          (Summer 2024)
Summer Research Intern
- Adapted the RNA-sequencing pipeline from the lab server to the university-wide CHTC server system using HTCondor under the guidance of a graduate student
- Performed differential gene expression analysis of experimental samples and visualized results in RStudio

## Work Experience

*Macalester College*                                                        (Spring 2025-Present)
Preceptor (undergraduate TA) of STAT 253: Statistical Machine Learning
- Supported students with questions about predictive models, principle component analysis, and clustering in R
- Assessed student work and provided constructive feedback
- Provided feedback on student success and class logistics to the professor

## Skills

Programming Languages: R, Bash, Java, Python
Data analysis: data wrangling, data visualization, statistical modeling, machine learning
Language: Spanish (Advanced Intermediate**)**

## Select Relevant Coursework

- STAT 212 Intermediate Data Science
- STAT 253 Statistical Machine Learning
- MATH/COMP 365 Computational Linear Algebra
- COMP 127 Object-Oriented Programming and Abstraction
- BIO 359 Big Data in Ecology

- GEOG 256 Health Geography
- BIO 180 Biodiversity and Evolution
- BIO 170 Ecology and the Environment

## Awards
- Dean's List, Macalester College, 4 consecutive semesters                (2023-present)
- DeWitt Wallace Distinguished Scholarship, Macalester College           (2023-present)
- National Merit Scholarship, National Merit Scholarship Corporation      (2023-present)

## Volunteer Experience

*Feline Rescue*
Shelter Caregiver                                                        (Fall 2025-present)
- Cleaned cages, fed cats, and completed other upkeep tasks to support shelter functioning