

Minneapolis, MN

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Education

Macalester College Sept 2016 - May 2020

BA IN APPLIED MATHEMATICS AND STATISTICS (HONORS), SUMMA CUM LAUDE

Saint Paul, MN

- · Minors in Geography (GIS) and Creative Writing
- Awarded The Kaplan Award for Acheivement in Data Science

TWIN CITIES BUS RIDERSHIP: A SPATIAL BAYESIAN ANALYSIS

• Statistics honors thesis conducted in collaboration with Metro Transit

Technical Skills

Analytics and Programming: R/RShiny, Python, SQL, Jupyter, ArcGIS, QGIS, Stan, JAGS

Cloud and Distributed Computing: Hadoop, MapReduce, Docker, Azure, AWS

Machine Learning: Tensorflow, scikit-learn, PySpark

Other: Bayesian modeling, time series modeling, spatial modeling, version control/Github, LaTeX, Adobe Creative Suite, Django, Hugo, bookdown/blogdown

Work and Teaching Eperience

Data Science Intern - Research and Analytics

June 2019 - present

METRO TRANSIT

COW TIPPING PRESS

Minneapolis, MN

- · Designed, implemented, and maintain a spatial Bayesian direct demand model of bus ridership
- Identified novel predictors of ridership in the region and introduced a new demographic survey question to the agency
- Conduct analysis supporting agency-wide equity goals and initiatives
- · Design and build R Shiny apps for internal use
- · Ad hoc reporting, analysis, and data support for business units

Data Science Researcher

NATIONAL GALLERY OF ART Remote

- Analyzed the Gallery's collection for gender diversity in acquisition practices
- Leveraged existing data source to innovate new approaches to business problems
- Presented findings at the Gallery as the only undergraduate team
- Developed prototype for an internal R Shiny dashboard to monitor collections

Teaching Assistant Jan 2018 - May 2020

MACALESTER COLLEGE MATHEMATICS, STATISTICS, AND COMPUTER SCIENCE DEPARTMENT

Saint Paul, MN

- Served as a teaching assistant for Linear Algebra (Spring 2018, Fall 2018), Applied Multivariable Calculus 1 (Spring 2019, Spring 2020), Correlated Data (Fall 2019), Causaul Inference (Spring 2020), and Introduction to Statistical Modeling (Spring 2020)
- Directed weekly office hours and attended classes to assist with activities
- Effectively communicated complex mathematical concepts and programming skills to a wide audience with varying academic backgrounds
- · Graded homework and communicated with professors regarding class progress and adjustments
- · Shifted to online office hours in Spring 2020 to support students in introductory classes through the transition to online learning

Office Assistant Aug 2018 - Mar 2020

MACALESTER COLLEGE MATHEMATICS, STATISTICS, AND COMPUTER SCIENCE DEPARTMENT

Saint Paul, MN

Saint Paul, MN

- Assisted with department-wide planning and daily secretarial tasks
- Helped facilitate events such as weekly coffee breaks and annual block parties

Instructor

· Taught inclusive creative writing workshops for adults with developmental disabilities

- Developed engaging lessons for students with diverse backgrounds and abilities
- · Published student work and hosted a successful public reading

Volunteering and Service

Tenure Track Hiring Committee Member

Fall 2018 and Fall 2019

MACALESTER COLLEGE MATHEMATICS, STATISTICS, AND COMPUTER SCIENCE DEPARTMENT

Saint Paul, MN

- · Selected by department to be an equal voting member on the Committee Member to hire tenure track professors
- Conducted interviews and evaluated job applications
- Coordinated student events during candidate campus visits and administered student surveys
- Served on three successful Committee Members, resulting three successful tenure track hires in Mathematics, Applied Mathematics, and Statistics

Class Agent Sep 2019 - Mar 2020

MACALESTER COLLEGE

Saint Paul, MN

- · Nominated to serve as an agent and encourage students and alum to donate to Macalester in support of financial aid
- · Conducted fundraising outreach and education for peers on campus

Committee Member May 2017 - May 2018

MACALESTER WOMEN IN MATHEMATICS, STATISTICS, AND COMPUTER SCIENCE

Saint Paul, MN

- · Encouraged gender diversity in Math, Statistics, and Computer Science through networking and professional development
- · Held events such as female faculty panels and weekly study breaks

Macalester Mentor

May 2016 - May 2017

Macalester College Saint Paul, MN

- Mentored low-income, first-generation high school students through the college application process
- · Led tours of Macalester's campus and spoke on panels about financial aid and college life

Talks and Presentations

- Analyzing Bus Ridership with a Spatial Direct Demand Model: Poster session presenting benefits of spatial modeling to transportation professionals
- 2020 Twin Cities Bus Ridership: A Spatial Bayesian Analysis: Honors thessis defense
- 2019 Intent in Acquisition: Presented R Shiny app and findings to Gallery curators and staff

Honors and Awards

- 2020 Kaplan Award for Acheivement in Data Science: Macalester College
- 2019 DataFest Best in Show: Macalester College

Publications

2020

Meandering Minneapolis: A Cultural Atlas

https://www.flipsnack.com/macalester/meanderingminneapolis/full-view.html