RAVEN MCKNIGHT

Statistician and data scientist seeking opportunity to engage in meaningful research & discovery for social good. I have worked on projects with Metro Transit, Saint Paul City Council, and The National Gallery of Art.

EDUCATION

2020 2016

B.A., Applied Math & Statistics

Macalester College

Saint Paul, MN

- Honors Thesis: Space, Time, Transit: A Spatio-temporal Model of Bus Ridership in the Twin Cities
- Minors in Geography & Creative Writing
- Key coursework: Bayesian Statistics, Correlated Data, Statistical Machine Learning, Computational Linear Algebra, Urban GIS, 2D Design

WORK EXPERIENCE

2019

Research & Analytics Data Science Intern

Metro Transit

Minneapolis, MN

- Working to update Metro Transit's Transit Market Areas in a practical, statistically rigorous manner
- Support internal data requests, visualization, and Shiny app development
- Facilitating collaboration with Macalester students to complete data science projects

2019 2018

Office Assistant

Macalester College

Saint Paul, MN

- Work in the Mathematics, Statistics, and Computer Science department
- Assist with department-wide event planning & daily secretarial tasks



SELECTED PROJECTS

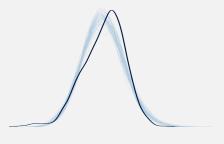
2019

Data Science Researcher

National Gallery of Art

Remote

- Conducted data science research to analyze the Gallery's collection
- Presented findings at the Gallery as the only undergratuate team



CONTACT

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SKILLS

R, Shiny, Git, ArcGIS, QGIS, Leaflet, LaTeX, bookdown, blogdown, Python, SQL, Excel, Stan, JAGS, Hugo, Adobe Creative Suite

INTERESTS

Spatio-temporal statistics Public transit Urban planning RShiny development Reproducible research Open source, open data Visualization & design Civic engagement

Source code: github.com/ravenmcknight/cv.

2019

Saint Paul 3K Initiative

Saint Paul City Council

Saint Paul, MN

- Class project to support Saint Paul City Councilmember efforts to provide affordable, accessible childcare to all 3- and 4-year old children in Saint Paul through data visualization and GIS
- Conduct primary data collection to develop database of existing childcare centers

TEACHING EXPERIENCE

2019

Teaching Assistant

Macalester College

Saint Paul, MN

2018

- Linear Algebra, Spring 2018, Fall 2018
- Applied Multivariable Calculus 1, Spring 2019
- Correlated Data (senior capstone course), Fall 2019

2017

Instructor

Cow Tipping Press

Minneapolis, MN

- Taught a radically inclusive writing workshop for adults with developmental disabilities
- Developed engaging lessons for students with diverse backgrounds & abilities
- Published student work and held successful public reading

✓ VOLUNTEERING & SERVICE

2019

Hiring Committee Member

Macalester College

Saint Paul, MN

2018

- Recruited to be an equal voting member in the hiring process for mathematics, statistics, and computer science professors
- Evaluate job applications, conduct interviews, and coordinate student involvement in campus visits
- Participated in two successful and one ongoing search

2019

Class Agent

Macalester College

Saint Paul, MN

 Nominated to be an agent and encourage students & alum to donate to Macalester in support of financial aid

2019

Facilitator

Macalester College Data Science for Social Good

◆ Saint Paul, MN

- Co-run Macalester's Data Science for Good Group
- Develop instructional material for students being introduced to "real world" data

I love teaching and learning about pedagogy. I enjoy writing accessible tutorials for my peers and encouraging more women and typically underrepresented students to pursue statistics and data science! • Connect students to community partners and facilitate projects

2018 • Committee Member

Macalester Women in Math, Statistics, and Computer Science

Saint Paul, MN

• Encourage gender diversity in Math, Statistics, and Computer Science through networking and professional development

2017 • Macalester Mentor

Macalester College

2016

2019

Saint Paul, MN

• Mentored low-income, first-generation high school students through the college application process

Ⅲ TALKS & PRESENTATIONS

Intention in Acquisition

National Gallery of Art

♥ Washington, DC

 Presentation of a robust Shiny app and key takeaways at Coding Our Collection: The National Gallery of Art Datathon