

## Erin Franke

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### EDUCATION

#### Macalester College, Saint Paul, MN

- Bachelor of Arts Degree expected May 2023
  - Statistics major, Economics minor, Computer Science minor
- Relevant Coursework:
  - Math/Stats: Probability, Survival Analysis, Computational Linear Algebra, Statistical Machine Learning; Bayesian Statistics, Mathematical Statistics, Correlated Data, Statistical Genetics
    - Advanced R programming skills, intermediate SQL
  - Economics: Intermediate Micro & Macroeconomic Analysis, Econometrics, Capital Markets
  - GPA: 3.99/4.0 (through May 2022)
- Dewitt Wallace Distinguished Scholarship (*four year merit based scholarship*)

#### Northside College Preparatory High School, Chicago, IL (2019)

### RESEARCH EXPERIENCE

- Carnegie Mellon University (*research assistant, CMU statistics/data science, summer 2021*)
  - Selected as part of a 15 person cohort for summer research in statistics and data science
  - Maximizing wOBA with Launch Angle and Exit Velocity with Adam Brodie (Houston Astros), Sarah Sult (WashU), and Brooke Coneeny (Swarthmore College)
    - Methodology: GAMs, logistic regression, skew normal and beta distributions
- Honors Independent Study: Independent senior year statistical research project studying the relationship between crime and gentrification in the Twin Cities.
  - Methodology: Poisson generalized linear models, spatial techniques including SAR/CAR models

### WORK EXPERIENCE

- Minnesota Twins Baseball Research Fellow (*May - August 2022*)
  - Worked a summer intern in Player Development for the MN Twins. Used statistical methods including regression, random forests, xgboost, and more to analyze players and baseball strategy.
- Massachusetts Center for Juvenile Justice Intern (*Jan-May 2022*)
  - Worked virtually analyzing data and creating visualizations to help reform juvenile justice in MA.
- Common Pantry Data Analysis Internship (*Jan 2021*)
  - Developed interactive statistical visualizations to map and analyze the zip code distribution of Common Pantry's clients and donations patterns before versus during the COVID-19 pandemic.
- Preceptor (*Sep 2020 -*)
  - Classes: Statistical Machine Learning, Introduction to Statistics, Core Concepts in Computer Science, Introduction to Data Science
- Macalester MSCS Office Assistant (*Sep 2021 -*)
  - Assist with Macalester Math, Stats, and Computer Science events
- Leonard Center: assistant, Macalester College athletic complex (*2019-*)
  - In game statistics for men/women's basketball, volleyball, and football. General administrative tasks.

### EXTRACURRICULARS/LEADERSHIP

- Macalester Varsity Track & Field/Cross Country (*2021 -*)
- Founder of Macalester Data Science for Social Good (*Fall 2021-*)
- Common Pantry Volunteer (*2015 -*)
- Macalester Women in Economics (*2020 -*); Junior Council Leader (*2021 - 2022*)
- Macalester Varsity Softball (*2019 - 2021*)