

## Charles Batsaikhan

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### EDUCATION

**Macalester College**, St. Paul, MN

Bachelor of Arts, May 2025

*Major:* Data Science *Minor:* Mathematics

*Major GPA:* 3.77 *GPA:* 3.55

*Honors:* Macalester College Dean's List (Spring 2023)

*Relevant Coursework:* Statistical Machine Learning, Intermediate Data Science, Database Management Systems, Computational Linear Algebra

### PROJECT EXPERIENCE

#### Opioid Epidemic - Intermediate Data Science

- Led a team in developing Shiny web application using R to analyze and visualize the U.S. opioid epidemic
- Applied R and Shiny for data manipulation, cleaning, and interactive visualization, showcasing demographic impacts
- Employed API web scraping techniques to gather diverse datasets, enhancing the depth and breadth of the analysis
- Proven ability to work hard, adapt to challenges, and commitment to continual learning and self-initiative.

#### Powerlifting Dataset - Statistical Machine Learning

- Using R programming to answer how accurately machine learning algorithms identify the best models to predict kilograms lifted by competitors.
- Used LASSO and Splines Models to work in a Regression setting, and Logistic Regression and Decision Trees to work in a Classification setting.
- Best models: LASSO in the Regression setting, and the Logistic Regression in the Classification setting.

#### Double Down - Object Oriented Programming

- Using Java programming, worked in group settings and created a user interactive Blackjack card game.

### WORK EXPERIENCE

**Preceptor for "Intro to Data Science" course**, Macalester College

Jan 2024 - Present

- Teacher's assistant; graded students' homework and quizzes efficiently and accurately.
- Helped teach many students with no prior R coding experience while holding office hours.
- Taught students the importance of data importing, wrangling, and visualizing using ggplot and dplyr package of R.

**Campus Center Building Manager**, Macalester College

Sep 2022 - Present

- Manage operations of the Campus Center and other main buildings on the campus.
- Help organize campus center events being hosted by the college.

**Summer Intern-Accounting**, Kokua Kalihi Valley-Health Center, Honolulu, HI

May - July 2022

- Entered journal entries of company transactions on MIP Fund Accounting software.
- Improved skills in MS Office, specifically Excel Spreadsheets by running the company's monthly expense summaries.
- Created PowerPoint instructions on the usage of various office equipment, such as fax/printer, copier, and scanner.
- Performed office day-to-day work, including cleaning the storage room, and organizing and shredding papers.

### CAMPUS ACTIVITIES

**Macalester Men's Swimming and Diving Team**

Sep 2021 - Present

- Committed approximately 20 hours/week per season to practice, lifting, competing, and traveling for competitions.
- Nominated Team "MVP" as a first year and second year.
- Won Silver and Bronze Medal in the Minnesota Intercollegiate Conference Championship.
- Nine-time record holder in swimming for the history of Macalester College.

### SKILLS

**Programming & Technical Skills:** R, RShiny, Python, SQL, Java, Excel, MS Office

**Soft Skills:** Efficient and effective team player, attention to detail, problem solver, hard-working, flexible, willing to learn, self-initiator.

**Languages:** English-first language, Mongolian-native, and Chinese-intermediate.