Zefan Qian

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EDUCATION

Bachelor of Arts in Mathematics and Economics

Expected May 2023

Macalester College, St. Paul, MN GPA: 3.98

Minor: Data Science

Honor & Awards: 4-year of Turck Presidential Scholarship

Coursework: Differential Equation; Mathematical Modelling; Correlated Data; Bayesian Statistics; Mathematical Statistics; Real Analysis; Introduction to Econometrics; Empirical Finance; Behavioral and Experimental Economics

SKILLS

Languages: Mandarin (Native); English (Full Proficiency)

Computer Languages: R, STATA, Python, Java. Experience with Mathematica. **Algorithms:** Statistical algorithms such as Markov Chain Monte Carlo simulations.

Applications: LATEX. Extensive experience with Microsoft system; proficient in Microsoft Office.

EXPERIENCE

Economics Research Assistant, Macalester College, MN

December 2020 - Present

- Work under Dr. Felix Friedt to experiment with and implement a model evaluating the airport noise and house price
- Utilize STATA to clean raw data, analyze Econometrics data, and communicate research findings

Preceptor, Macalester College, MN

September 2020 - Present

- Work with 100 students across Intermediate Microeconomic Analysis and Core Concepts in Computer Science
- Hold preceptor office hours for homework questions, grade homework and assist in class lectures

Researcher, Introduction to Econometrics, Macalester College, MN

September 2021 - December 2021

- Conducted individual research on recreational marijuana legalization using difference in differences (Did)
- Found, cleaned, visualized and analyzed multiple datasets using STATA; presented the research results to the class

Researcher, Mathematical Statistics, Macalester College, MN

January 2021 - March 2021

- Conducted collaborative research on the central limit theorem (CLT) and Lindeberg-Feller Condition
- We read publications and present the results to the class using MGF and characteristic function

Researcher, Differential Equations, Macalester College, MN

September 2021 - Present

- Conducted collaborative research on the optimal strategy for a bike throw
- Built mathematical model using differential equations and ran simulations; presented the research results to the class

Chinese Tutor, Macalester College, MN

September 2021 - Present

- Practice Chinese with students across first year Chinese students to students finishing their Chinese major
- Hold tutor office hours for homework questions and Chinese practice, grade homework and lead Chinese tea social

COMMUNITY ENGAGEMENT

Public Forum Debate Judge, The National Speech & Debate Association China

July 2019 - Present

- Judge for over 100 flights of high school and middle school public forum debates
- Lead annual debate summer camp for Chinese students