

# Jerry ZUO

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## EDUCATION

### School of Economics and Management, Tsinghua University, Beijing

Aug 2022-Present

- Major in Information Management and Information Systems
- Overall GPA: 3.90/4.00; Major GPA: 3.93/4.00; Rank: 2/31
- Awards: Comprehensive Merit Scholarship(top 5%), Sports Personality of the Year 2023(1 among over 200)
- Coursework: Data Structure and Algorithm(A), C programming(A+), Java Programming(A), Machine Learning, Principles of Computer Systems and Networks, Principle and Application of Databases, Financial Accounting(A+), Econometrics, Data Science(A), Probability Theory and Mathematical Statistics(A), Operation Research(A), Dynamic Systems Analysis and Control

## RESEARCH&PROJECT EXPERIENCE

### Urban Green Space and Mortality in Chinese 390 Cities from 2000 to 2020: Health Impact Study |

Student Research Training

Nov 2023-Feb 2024

Advisor: John.S Ji, Associate Professor, Vanke School of Public Health, Tsinghua University

- Mapped urban human population distribution aged 20 and above with a 1 km grid (30 arc-second) and used satellite-based remote sensing to measure green space over time to create population-weighted NDVI
- Calculated premature deaths attributed to NDVI changes and heat exposure, and interaction of and urban green space from 2000 to 2020 over time, based on counterfactual scenarios
- Concluded that the decrease in urban NDVI from 2000 to 2010 could have caused 9,951 additional premature deaths annually (95% CI: 3,346 – 18,106), while the increase in NDVI from 2010 to 2020 could have averted an estimated 37,653 premature deaths annually (95% CI: 26,327 – 60,135), with the highest averted mortality rate observed in the northern regions of the country compared to the southern regions

### Impact Analysis of Social Networks under Natural Disaster | Mentored Project

Oct 2023-Dec 2024

Advisor: Jia-Rui Lin, Associate Professor, Disaster Prevention and Mitigation Institute, Tsinghua University

- Crawled microblogging data(containing over 30000 tweets) about '7.20 Zhengzhou Extrordinary Rainstorm' based on keywords using BeautifulSoup against multiple anti-crawler mechanisms
- Performed feature engineering, user classification, and microblog classification on the dataset, on the basis of which an ANN prediction model is built
- Built model-based web pages to visualize the model functionality using Python-streamlit

## INTERNSHIP

### Beijing Dazhangfang Network Technology Co. , LTD

Beijing, China

Piaotong Cloud, R&D department, Research and Development Assistant

Jun 2023-Aug 2023

Instructor: Zhenfang Kan, Chairman of the board

- Learnt front- end programming languages ( html, css, javascript) and common frameworks ( Bootstrap)
- Assisting developers in breaking the encryption mechanism of the website requests through JS reversal, so as to get the web interface and develop webpages that can automatically access the websites
- Writing requirement analysis reports and solution reports about the process of decryption

## LEADERSHIP AND EXTRACURRICULAR EXPERIENCE

### Sports Department of Tsinghua SEM | Minister

May 2023-May 2024

- Designed and organized sports events according to the needs of students
- Responsible for part of the financial work of the sports department
- Cooperated with the other departments of the Students' Union, jointly responsible for enhancing school's sports

### Business Case Analysis Competition | Team Leader

Sep 2022-Oct 2022

- Led a team of 3 to analyze the operation strategy of lululemon and figuring out potential market opportunities
- Gave an outstanding presentation to the adjudicators
- Ranked 3<sup>rd</sup> in the final competition among 30 teams

## SKILLS AND HOBBIES

- Programming: Solid expertise in Python(>50K lines), C, Java; Experienced in R, STATA, SQL; Familiar with HTML, CSS, Javascript(especially on Google Earth Engine)
- Language: English(fluent), Chinese(native)
- Hobby: Basketball(played on school team), Mountain Climbing, Guitar