

Yixiao Wang (Eshiao Wong)

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EDUCATION

Duke University, Graduate School Aug. 2024 - Jun. 2026 (Expected)
Master's Student, Statistical Science
University of Science and Technology of China, School of the Gifted Young Sep. 2020 - Jul. 2024
B.S. in Mathematics and Applied Mathematics (Outstanding Graduate)
Major in Probability and Statistics track GPA (WES Converted): 3.91/4, Ranking: 6/92

ACADEMIC PROJECTS

Trimmed Mean for Partially Observed Functional Data | Bachelor's Thesis Feb. 2024-Mar. 2024

- Supervised by Associate Professor Lan Xiaohong from USTC.
- Defined the trimmed mean for partially observed functional data.
- Proved consistent convergence of the estimator and conducted numerical simulations.
- The thesis is available on [arXiv](#), and the code is available on [GitHub](#).

LSTM-GRU Hybrid Network | Course Project for *Time Series Analysis* Jun. 2024

- Cleaned and preprocessed the PM2.5 pollution data from Chengdu.
- Proposed an LSTM-GRU hybrid network architecture, inspired by GoogLeNet, for PM2.5 time series forecasting, which reduced the error rate by 30% compared to LSTM.
- The essay is available [here](#), and the code is available on [GitHub](#).

TEACHING

Linear Algebra B1 | Teaching Assistant Mar. 2023- Jul. 2023

- Built the course homepage (click [here](#)) and served as the group leader, managing a course group with over 100 students.
- Organized weekly problem-solving sessions during weekends, spent over 40 hours of personal teaching time, and engaged with more than 200 participants, showcasing strong teaching and communication skills.
- Independently completed solution sets for over 100 post-course exercises and provided analysis and answers to all past exam papers.

Probability Theory Seminar | Presenter April. 2023

- Delivered a special presentation with more than 10 fellow students, focusing on random matrix methods.
- The slides are available [here](#).

INTERNSHIP

Thermo Fisher Scientific | Data Cleansing PTA Sep. 2023- Dec. 2023

- Cleaned and categorized more than 2000 customer data queries and matched them with Excel.
- Wrote Excel functions to add wildcards to the dataset to be cleaned, significantly improving team efficiency.
- Summarized the data cleansing techniques and conducted team training sessions.

ACTIVITIES & LEADERSHIP

Origami Club, USTC | President Jun. 2021- Jun. 2022

- Designed and organized the first origami exhibition "Vividly Comes to Life on Paper" in USTC.
- Conducted origami teaching sessions twice per month, sharing the art of origami with over 200 participants.

Hefei Chunyu Parent Support Center for Intellectually Disabled Children | Volunteer Sep. 2021- Jan. 2022

- Played basketball with autistic children and helped coaches to keep order in class once per week.

ADDITIONAL INFORMATION

Awards and Honors:

Outstanding graduate from the University of Science and Technology of China (USTC) in 2024,
China Petroleum Scholarship in 2023(Only 3 Students in the School of the Gifted Young),
Excellent teaching assistant in the 2023 Spring (Third in the Whole School),
Silver Prize for Outstanding Students Scholarship in USTC in 2022 and 2021,
First Prize in Chinese Mathematical Competitions for University Students in 2022 and 2021,
Excellent President of The School Club in 2022.

Language: Chinese (Mandarin and Sichuanese dialect), English (TOEFL 103 with 23 in Speaking).

Programming & Software Skills: Python (main), C, MATLAB, R, Latex, HTML, CSS, SPSS, Office, etc.