

MARY WU

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EDUCATION

Northwestern University, The Graduate School, Evanston, IL Expected 2026

Master of Science in Statistics & Data Science

Relevant courses: Advanced Regression, Introduction to Bayesian Statistics, Introduction to Generative AI

New York University, College of Arts & Science, New York, NY May 2024

Bachelor of Arts in Economics & Mathematics, minor in Music | Dean's List

Relevant courses: Calculus III, Linear Algebra, Analysis, Introduction to Econometrics, Advanced Micro Theory

EXPERIENCE

Research Assistant, Northwestern University Department of Statistics, Evanston, IL Jan 2025 – Present

- Develop Bayesian methods to reconstruct historical sunspot numbers and analyze time-series data in Python/R

Research Assistant, National University of Singapore Business School, Singapore May 2024 – Present

- Use SQL to extract and integrate financial data from BvD ORBIS, merging firm identifiers to construct comprehensive datasets for analysis
- Apply cutting-edge econometric and NLP methods to evaluate the impact of technological advancements on firms' foreign direct investment and identify underlying mechanisms using economic and international business theory

Asset Custody Intern, China International Capital Corporation, Beijing, China Jun 2023 – Aug 2023

- Optimized financial reporting templates for 20+ private equity funds, improving processing efficiency significantly
- Drove operational success by analyzing fund performance in Excel and collaborating cross-functionally to support daily operations for 20+ multimillion-dollar funds

Research Assistant, Zhejiang University School of Economics, Zhejiang, China Aug 2022 – Dec 2022

- Provided critical insights on tax incidence models through rigorous derivations, actively shaping policy optimization discussions in group meetings

Sales Consultant, UHOMES, New York, NY May 2021 – Aug 2021

- Delivered data-driven apartment recommendations to 10+ clients by analyzing market trends and sales data in Excel
- Optimized sales strategies through in-depth competitor analysis, boosting customer engagement and conversion rates

PROJECTS

2024 US General Elections Prediction Nov 2024

- Developed Bayesian simulation models to analyze and visualize large-scale polling data in Python
- Outperformed mainstream forecasts by correctly predicting the 2024 presidential election outcome

SKILLS

Technical: Python (NumPy, pandas, SciPy, Matplotlib, Scikit-learn, PyTorch), SQL, R, HTML, Excel, GitHub, Jupyter

Language: Fluent in Mandarin Chinese, basic knowledge of Spanish and Korean

HONORS & AWARDS

National Merit Scholarship Finalist 2020

UKMT Intermediate Mathematical Olympiad and Kangaroo, *Certificate of Distinction* 2017

UKMT Intermediate Mathematical Challenge, *Gold Certificate, Best in Year, Best in School* 2017

LEADERSHIP AND SOCIAL ENGAGEMENT

Senior Dance Instructor, KNESIS NYU, New York, NY Jan 2022 – May 2024

- Led and instructed dance classes of 50+ in attendance, with performances reaching over 80,000 views on YouTube
- Coordinated and supervised recruitment efforts, collaborating with board members to grow membership and organize social events attended by 200+