

# MARY WU

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## EDUCATION

**Northwestern University, The Graduate School**, Evanston, IL Expected 2026  
*Master of Science in Statistics & Data Science* GPA: 3.67/4.00

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 GPA: 3.67/4.00

Relevant courses: Calculus III, Linear Algebra, Analysis, Theory of Probability, Introduction to Econometrics

## 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+