

Yingzhou Wang

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EDUCATION

- **University of Wisconsin–Madison** Madison, USA
M.A. in Mathematics (expected) Aug 2024 – May 2026
 - **Performance:** Strong results in 15 degree-counting credits (3.8/4.0) from first-year VISP coursework; official program GPA to be calculated.
- **Beijing Normal University** Beijing, China
B.S. in Mathematics and Applied Mathematics; GPA: 3.4/4.0 Sep 2021 – Jun 2024

COURSES

- **Mathematical Foundations:**
Math 522 Analysis II; Math 540 Linear Algebra II;
- **Statistics & Data Science:**
Probability Theory; Mathematical Statistics; Mathematical Modeling; Math 535 Mathematical Methods in Data Science; Understanding China's Economic Indicators;
- **Optimization & Computational Methods:**
CS 524 Introduction to Optimization; CS 525 Linear Optimization; CS 726 Nonlinear Optimization; Math 717 Stochastic Computational Methods; Math 714 Methods of Computational Mathematics I; Math 703 Methods of Applied Math I;

WORKING EXPERIENCE

- **Quantitative Analysis Intern — SDIC Securities Co., Ltd** Shanghai, China Jul 2025 – Aug 2025
 - **Quantitative Modeling:** Applied data-driven modeling to design and evaluate a covered call–based stock index futures strategy.
 - **Data & Tools:** Built a Python–MySQL pipeline for large-scale data cleaning, backtesting, and performance evaluation (annualized return, volatility, Sharpe ratio).
- **Teaching Assistant — Department of Mathematics, University of Wisconsin–Madison** Math 320 Linear Algebra and Differential Equations Fall 2025
 - **Competitive Selection:** Selected as 1 of fewer than 20 teaching assistants from over 220 applicants (mostly native English speakers), demonstrating strong communication and teaching skills in English.
 - **Teaching:** Led three weekly discussion sections with 60+ students, delivering board-based instruction and facilitating in-class problem solving.

PROJECTS

- **Research Assistant in Optimization** Mentored by Professor Andi Wang Dec 2024 – May 2025
 - **Subject:** Sparse Regression (LASSO) and Optimization Algorithms
 - **Achievements:** Implemented ADMM and ISTA algorithms from scratch to solve LASSO, analyzed convergence behavior, and demonstrated recovery of sparse signals under noise.
 - **Independent Study:** Reviewed research papers on Federated Multi-Task Learning, connecting ADMM's variable-splitting approach to distributed optimization and identifying potential applications for privacy-preserving, multi-task model training.

COMPETITION

- **The 19th Beijing Normal University Mathematical Modeling Competition** First Prize: Mar 2022
- **The Mathematical Contest in Modeling** International Second Prize: Feb 2023
- **Contemporary Undergraduate Mathematical Contest in Modeling** Honourable Mention: May 2023
- **The 14th Chinese Mathematics Competitions** Third Prize: Mar 2023
- **China-US Young Maker Competition** Second Prize: Mar 2023

EXPERIENCE

- **Served as Vice Minister of the Student Union** Jun 2022 – Jun 2023
Organizing lectures and holding college competitions
- **Beijing Normal University 120th Anniversary Celebration Ceremonial Staff** Sept 2022
Named Outstanding Volunteer
- **Selected for the UNECO 2023 Global Competency Summer Training Camp** Sept 2023
Receive training from UNECO (United Nations Educational, Scientific and Cultural Center for Agriculture)
- **Professional Choir "North Land" Members** Sept 2023 – Jun 2024
Performing in the Concert Hall of the National Center for the Performing Arts
- **Popularizing Science on the Tibetan Plateau** Dec 2023
Teaching local children to see sunspots with the staff of the China Science and Technology Museum staff