

WEIRONG WANG

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EDUCATION

National University of Singapore

Ph.D. in Operations Research and Analytics

M.S. in Financial Engineering (GPA: 4.8/5.0)

Expected Jul 2031

Jul 2026

Peking University

M.A. in Economics (GPA: 3.77/4.0)

Jul 2026

Communication University of China

B.Eng. in Radio and Television Engineering

Jul 2021

RESEARCH EXPERIENCE

Sales Steering: Network Revenue Management with Spatiotemporal Demand Coupling

- Formulated a network revenue management model that captures spatiotemporal demand interactions across time periods and route segments.
- Designed an estimation procedure for round-trip demand and implemented scalable assortment optimization.
- Numerical experiments indicated improvements in revenue and load balance relative to point-of-sale benchmarks; a decision-support dashboard was developed for field testing.

AlphaPhase: Phase-Stationary Reinforcement Learning for Diversified Alpha Ensembles

- Formulated a phase-stationary reinforcement learning approach to alpha combination, incorporating periodic freezing and diversity-aware exploration.
- Assessed the approach on S&P 500 and observed favorable performance relative to selected baselines.

Regional Economic Forecasting with Hierarchical Data and Machine Learning Models

- Constructed a local nowcasting framework that integrates hierarchical and mixed-frequency data.
- Combined econometric and machine-learning models with forecast-combination methods to accommodate nonstationarity and structural change.

Understanding the Value of Real-Time Visibility in Inventory Management

- Analyzed container operations data to assess operational applications of IoT-enabled real-time visibility.
- Formulated a multi-period network optimization model for fleet sizing and operating costs.

AWARDS AND HONORS

Research Scholarship, National University of Singapore, 2026

First-Class Academic Scholarship, Peking University, 2025

Merit Student, Peking University, 2025

Academic Excellence Award, Peking University HSBC Business School, 2025

Second-Class Tuition Scholarship, Peking University HSBC Business School, 2025

Outstanding Academic Achievement Award, Peking University, 2024

Third-Class Tuition Scholarship, Peking University HSBC Business School, 2023

Single Item Scholarship for Outstanding Undergraduate, Communication University of China, 2020

Honorable Mention, MCM/ICM Mathematical Contest in Modeling, 2020

Meritorious Winner, MCM/ICM Mathematical Contest in Modeling, 2019

First Prize of Division, Contemporary Undergraduate Mathematical Modeling Contest, 2019

CBTDI Single Item Scholarship, Communication University of China, 2018

Third Prize, The Chinese Mathematics Competitions, 2018

Third Prize, Beijing University Student Mathematics Competitions, 2018

Second Prize of Division, Contemporary Undergraduate Mathematical Modeling Contest, 2018

Third Prize, Asia and Pacific Mathematical Contest in Modeling, 2018

ADDITIONAL INFORMATION

- **Programming:** Python, SQL, C/C++, MATLAB
- **Tools:** Gurobi, Stata, L^AT_EX, Git/GitHub, NumPy, pandas, SciPy, scikit-learn, PyTorch, TensorFlow
- **Language:** Chinese (native), English (fluent), French (beginner)
 - **IELTS:** 7.5/9.0 (Reading 8.5, Listening 8.0, Speaking 6.5, Writing 7.0)
 - **GRE General:** Verbal 157/170, Quantitative 170/170
 - **CET-6:** 642/710, **CET-4:** 642/710