

Hongyu Wang

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EDUCATION

University of Rochester, Rochester, NY

Aug 2024 – present

Ph.D., Operations Management, Simon Business School

Columbia University, New York, NY

Aug 2020 – May 2021

Cumulative GPA: 3.7/4.0

Master of Science in Operation Research

Relevant coursework: Data Analytics, Optimization, Machine Learning,
Revenue Management, Corporate Finance, Simulation.

University of California, San Diego, CA

Aug 2016 – March 2020

Bachelor of Science in Mathematics-Computer Science, Bachelor of Science in Management Science

Cumulative GPA: 3.7/4.0

Relevant coursework: Advanced Data Structures, Combinatorics, Math Statistics, Discrete Mathematics

EXPERIENCE

Huawei Technologies Co., Ltd, Shanghai, China

Dec 2021 – May 2024

Software Engineer Full-time

- Led a Team of Eight in Developing an Intelligent Scheduling Application: Managed the development of a smart scheduling application to assist Wanhua Chemical with scheduling inspections and routine maintenance at their Yantai base, contributing to algorithm design and backend development.
- Worked on Inventory-Demand-Purchasing Optimization: Contributed to the development of an optimization model for inventory, demand, and procurement processes at the National Energy Group in Beijing, improving supply chain efficiency and operational performance, focusing on data analysis and algorithm design.

FORKAIA, Irvine, CA

Jul 2019 – Jul 2019

Data Scientist Intern

- Cleaned data using Python and constructed database schemas for a used car pricing project (also involved in rating clothes from the Amazon API). Conducted data analysis to identify pricing trends and patterns. Developed 10 interconnected tables, performed exploratory data analysis, and uploaded them to the database server.

PetroChina Northwest Chemicals Marketing Co., Lanzhou, China

May 2017 – Aug 2017

Data Analyst Intern

- Contextualized sales data using Excel visualization and grouping tools. Generated pivot tables, histograms, pie charts, and so on.
- Led a team of five in computing costs along the supply chain using models learned from school. Provided optimization suggestions in a report to enhance supply chain management.

RELATED ACADEMIC PROJECTS

Linear and Non-linear Approximation, San Diego, CA

Spring 2019

- Applied Newton Methods and Euler Methods with MATLAB for linear approximation. Compared and analyzed differences in run time and error terms, optimizing the algorithm based on the analysis.
- Proposed and implemented the application of collocation and shooting methods to solve BVP, IVP, and BDE non-linear approximation problems. The results matched state-of-the-art results on the topic.

CAMPUS INTERNSHIP

University of California, San Diego, San Diego, CA

Mar 2019 – Jun 2019

Teaching Assistant, Econ100C

- Organized a weekly one-hour meeting with students to reinforce foundational knowledge in Economics.
- Prepared materials for recitation sessions, covering both theory and applications.
- Instituted weekly office hours for students, a concept appreciated by both professors and students.
- Designed a review sheet based on past midterms and addressed questions from students.

SKILLS

Programming Languages: Experienced with Java, C++, Python, SQL, and Linux.