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.
- 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.

FORKAIA, Irvine, CA   Jul 2019 – Jul 2019
Data Scientist Intern (Startup company)
- Cleaned data using Python and constructed database schemas for a used car pricing project (also involved in rating clothes from the Amazon API). Developed 10 interconnected tables 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.
- Collaborated with other TAs to conduct a review session for the second midterm. Designed a review sheet based on past midterms and addressed questions from students.

SKILLS

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