

# Jiarui (Gary) Wei

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## EDUCATION

### The University of Texas at Dallas

Ph.D. in Operations Management

Richardson, TX

Aug 2021 – May 2026 (expected)

- GPA: 3.89/4

### The Chinese University of Hong Kong

B.Eng. in Systems Engineering and Engineering Management, Minor in Statistics

Hong Kong

Sep 2016 – Jul 2020

- Major GPA: 3.8/4, **Honor, First Class**

## RESEARCH EXPERIENCE

### RESEARCH INTERESTS

- Energy and Environment, Sustainable Operation, Pricing and Revenue Management

### RESEARCH PROJECTS

- Microgrid Capacity Investment: Price Dependent and Independent Demand Cases and Their Comparison. Joint work with Metin Cakanyildirim and Fariba Mamaghani
- Blessing or Curse? An Investigation of Amazon FBA's Free-Return Service. Joint work with Serdar Simsek and Ozalp Ozer

## WORK EXPERIENCE

Teaching Assistant, The University of Texas at Dallas

2021-present

- Operations Management, Spreadsheet Modelling and Analytics, Probability and Stochastic Processes

Junior Research Assistant, The Chinese University of Hong Kong, Hong Kong

2020-2021

- The work focused on a sustainable operations management project about perishable food waste and inventory management
- I conducted numerical testing using MATLAB for a heuristic Base Stock Policy under stochastic demand and compared it with the optimal, and other heuristic policies. We observe a 5% decrease in food waste using the optimal policy.

Student Web Developer, The Chinese University of Hong Kong, Hong Kong

2018

- I develop a webpage interface that can convert Cantonese Romanization between four different versions using HTML and JavaScript. The webpage has been in use for Yale-China Chinese Language Academy in CUHK for internal use since launch in 2018 and it helps edition in Cantonese learning textbook.

## PUBLICATION

- Larissa P.G. Petroianu, Zelda B. Zabinsky, Mariam Zameer, Yi Chu, Mamiza M. Muteia, Mauricio G.C. Resende, Aida L. Coelho, **Jiarui Wei**, Turam Purty, Abel Draiva, Alvaro Lopes. "[A light-touch routing optimization tool \(RoOT\) for vaccine and medical supply distribution in Mozambique](#)." *International Transactions in Operational Research* (2020)

## TECHNICAL SKILLS AND LANGUAGES

- **Programming:** Python, MATLAB, C, Java, R, SQL, LaTeX, Stata
- **Optimization Tools:** AMPL, CPLEX
- **Languages:** English, Mandarin Chinese, Cantonese

## COURSEWORK

### DOCTORATE COURSEWORK

- **Operations Research and Management:** Optimization, Deterministic Models in Operations Research, Stochastic Models in Operations Research, Optimal Control Theory and Applications, Behavioral Operations Management
- **Statistics:** Probability and Stochastic Processes, Advanced Statistics and Probability, Modern Machine Learning Methods
- **Economics:** Advanced Managerial Economics, Applied Econometrics, Econometrics, Microeconomics, Game theory

### UNDERGRADUATE COURSEWORK

- **Programming:** Data Structures, Problem Solving by Programming in C, Introduction to Computing Using Java, Beginning Scientific Computing in MATLAB, Introduction to Database Systems
- **Statistics:** Elements of Statistical Methods, Bayesian Learning, Applied Regression Analysis, Statistical Inference