

# Jiarui Wei

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## EDUCATION

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### The University of Texas at Dallas

2021 - Present

Ph.D. in Operations Management

Advisor: Metin Çakanyildirim

### The Chinese University of Hong Kong

2016 - 2020

B.Eng. in System Engineering and Engineering Management

## RESEARCH INTERESTS

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**Topics:** Energy Management, Sustainable Operations, and Platform Operations

**Methodologies:** Analytical (Optimization, Stochastics), Empirical (Econometrics, Machine Learning)

## PUBLICATION

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- **Dismissal of Demand Dependence Disappoints and Deceives: The Case of Microgrid Generation and Storage Investments**, with F. F. Mamaghani and M. Çakanyildirim. Under review at *Operations Research*.  
- Accepted for presentation at MSOM Sustainable Operations SIG, 2025
- **Blessing or Curse? An Investigation of Free-Return Services in E-Commerce**, with A. S. Şimşek and Ö. Özer. In preparation for submission.
- **The Value of Commitment: Causal Effects of Retail Electricity Contracts on Consumer Bills Through Double Machine Learning from Individual Consumption**, with F. F. Mamaghani and M. Çakanyildirim. Work in Progress.
- **Fair Pricing in the Age of AI: Designing Electricity Market Mechanisms for Data Center Demand Shocks**, with F. F. Mamaghani and M. Çakanyildirim. Work in Progress.

## TEACHING INTEREST

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Business Analytics (Statistics, Programming in R/Python/Excel, Cloud Computing in Business, Quantitative Methods), Machine Learning and Artificial Intelligence with Business Application, Supply Chain Management

## TEACHING EXPERIENCE

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### Instructor, The University of Texas at Dallas

- **Managerial Methods in Decision Making Under Uncertainty**, (Undergraduate Core)  
Spring 2025: Class size: 68, Evaluation: 4.81/5, Response Rate: 54.41%

### Teaching Assistant, The University of Texas at Dallas

- **PhD courses:** Probability and Stochastic Processes, Optimal Control Theory and Applications

- **Master/Undergrad Courses:** Operations Management, Spreadsheet Modeling and Analytics, Purchasing Sourcing and Contract Management, Global Logistics and Transportation, Prescriptive Analytics, Product Lifecycle Management, Lean and Six Sigma Processes

## CONFERENCE PRESENTATIONS

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### Dismissal of Demand Dependence Disappoints and Deceives: The Case of Microgrid Generation and Storage Investments

- INFORMS Annual Meeting (Scheduled), Atlanta, GA Oct 2025
- CEMA Annual Meeting, Houston, TX Jun 2025
- POMS Annual Conference, Atlanta, GA May 2025
- INFORMS Annual Meeting, Seattle, WA Oct 2024

## SERVICES

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- **Reviewer:** International Journal of Production Research
- **Session Chair:** INFORMS 2025 Annual Meeting

## SKILLS

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

## REFERENCES

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### Professor Metin Çakanyildirim (Chair)

Professor, Operations Management

The University of Texas at Dallas

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### Professor Suresh Sethi

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Associate Professor, Operations Management

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**Professor Fariba Farajbakhsh Mamaghani**

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