

Jiarui Wei

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ACADEMIC APPOINTMENT

California State University San Marcos

2026–Present

Assistant Professor of Operations, Supply Chain, and Business Analytics

EDUCATION

The University of Texas at Dallas

2021 – August 2026

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

Topics: Energy Management, Sustainable Operations, and Platform Operations

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

RESEARCH PAPERS

Working Papers

- **“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
- **“Who Should Fulfill? The Role of Return Policies in E-Commerce Fulfillment Strategy”**
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”**
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.

Publication

- **“A Light-Touch Routing Optimization Tool (RoOT) for Vaccine and Medical Supply Distribution in Mozambique”**
with L. P.G. Petroianu, Z. B. Zabinsky, M. Zameer, Y. Chu, M. M. Muteia, M. G.C. Resende, A. L. Coelho, T. Purty, A. Draiva, A. Lopes. *International Transactions in Operational Research*, 28(5), 2334-2358.

TEACHING INTERESTS

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

TEACHING EXPERIENCE

Instructor, California State University San Marcos

- **OM 305: Operations Management**
Fall 2026: Two sections

Instructor, The University of Texas at Dallas

- **Managerial Methods in Decision Making Under Uncertainty**, (Undergraduate Core)
Spring 2026: Class size: 68
Spring 2025: Class size: 68, Evaluation: 4.81/5, Response Rate: 54.41%

Teaching Assistant, The University of Texas at Dallas

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

Teaching Award

- **Honorable Mention**, 2026 President's Teaching Excellence Award for Teaching Assistant, The University of Texas at Dallas, May 2026

CONFERENCE PRESENTATIONS AND PARTICIPATION

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

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| • POMS Annual Conference (Scheduled), Reno, NV | May 2026 |
| • INFORMS Annual Meeting, Atlanta, GA | Oct 2025 |
| • MSOM Sustainable Operations SIG*, London, UK | Jun 2025 |
| • CEMA Annual Meeting, Houston, TX | Jun 2025 |
| • POMS Annual Conference, Atlanta, GA | May 2025 |
| • Microgrid Knowledge Conference*, Dallas, TX | Apr 2025 |
| • INFORMS Annual Meeting, Seattle, WA | Oct 2024 |

“The Value of Commitment: Causal Effects of Retail Electricity Contracts on Consumer Bills Through Double Machine Learning”

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| • POMS Annual Conference (Scheduled), Reno, NV | May 2026 |
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“Who Should Fulfill? The Role of Return Policies in E-Commerce Fulfillment Strategy”

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| • POMS Annual Conference (Scheduled), Reno, NV | May 2026 |
| • INFORMS Annual Meeting*, Atlanta, GA | Oct 2025 |
| • INFORMS Annual Meeting*, Seattle, WA | Oct 2024 |

* denotes co-author presentation

SERVICE

- **Reviewer:** International Journal of Production Research
- **Conference Session Chair:** INFORMS 2025 Annual Meeting, POMS 2026 Annual Conference

PROFESSIONAL EXPERIENCE

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| • Junior Research Assistant , The Chinese University of Hong Kong | 2020-2021 |
| • Research Assistant , University of Washington | 2019 |
| • Student Web Developer , The Chinese University of Hong Kong | 2018 |

SKILLS

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

REFERENCES

Professor Metin Çakanyildirim (Chair)

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The University of Texas at Dallas

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Professor Fariba Farajbakhsh Mamaghani

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