# JINGWEN TANG

Assistant Professor, Department of Management, Miami Herbert Business School

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## EDUCATION

**University of Michigan, Ann Arbor, MI, USA** *August 2019 - May 2024*
Ph.D. in Industrial and Operations Engineering and Scientific Computing *(GPA: 4.0/4.0)*
Advisor: Professor Cong Shi
**Tsinghua University, Beijing, China** *July 2015 - June 2019*
B.S. in Industrial Engineering

## RESEARCH INTEREST

**Methodologies:** Online Learning Algorithms, Machine Learning, Approximation Algorithms
**Applications:** Supply Chain Management, Revenue Management, Service Operations

## JOURNAL PUBLICATIONS

1. "Online Learning for Dual Index Policies in Dual Sourcing Systems",
   **Jingwen Tang**, Boxiao (Beryl) Chen, Cong Shi, ***Manufacturing & Service Operations Management***, Vol. 26(2), 758-774, 2024.
   *Winner of University of Michigan IOE Richard C. Wilson Prize for Best Student Paper.*

2. "Offline Feature-Based Pricing under Censored Demand: A Causal Inference Approach",
   Jingwen Tang, Zhengling Qi, Ethan X. Fang, Cong Shi, ***Manufacturing & Service Operations Management***, Vol. 27, No. 2, March–April 2025, pp. 535–553.

## PAPERS UNDER REVIEW/WORKING PAPERS

1. "Multiproduct Inventory Systems with Upgrading: Replenishment, Allocation, and Online Learning", Jingwen Tang, Izak Duenyas, Cong Shi, Nan Yang.

2. "Online Learning for Joint Pricing and Remuneration in a Two-Sided Market",
   Jingwen Tang, Cong Shi, Izak Duenyas.

3. "Multiproduct Dynamic Pricing with Shrinking Choice Sets: Theory and Evidence from Autonomous On-Demand Delivery",
   Jingwen Tang, Shuai Hao, Yuqian Xu, Cong Shi.

## CONFERENCE PRESENTATIONS

1. Online Learning for Dual Index Policies in Dual Sourcing Systems, *INFORMS 2022 (Indianapolis, IN).*

2. Online Learning for Dual Index Policies in Dual Sourcing Systems, *Amazon Modeling and Optimization (MOP) Lunch and Learn Seminar.*

3. Offline Feature-Based Pricing under Censored Demand: A Causal Inference Approach, *2023 Purdue Operations Conference (West Lafayette, IN).*

4. Offline Feature-Based Pricing under Censored Demand: A Causal Inference Approach, *INFORMS 2023 (Phoenix, AZ).*

5. Fair Inventory Control, *POMS 2024 (Minneapolis, MN).*

6. Multi-product Pricing under the Multinomial Logit model with Vanishing Choices, *POMS 2024 (Minneapolis, MN).*

7. Online Learning for Dual Index Policies in Dual Sourcing Systems, *INFORMS 2024 (Seattle, WA)*.

8. Online Learning for Inventory Control with Fairness Constraints, *POMS 2025 (Atlanta, GA)*

9. Multiproduct Inventory Systems with Upgrading: Replenishment, Allocation, and Online Learning, *POMS 2025 (Atlanta, GA)*

10. Dynamic Pricing for Autonomous On-Demand Delivery Services with Capacity Constraints and Shrinking Choice Sets, *POMS 2025 (Atlanta, GA)*

11. Dynamic Pricing for Last-Mile AI Automation: A Data-Driven Approach with Temporally Shrinking Choice Sets, *2025 Purdue Operations Conference (West Lafayette, IN)*

## INDUSTRY EXPERIENCE

**Amazon** — May 2023 - Aug 2023
Research Scientist Intern, MOP (Modeling and Optimization), Bellevue, WA, USA
**Amazon** — May 2022 - Aug 2022
Research Scientist Intern, MOP (Modeling and Optimization), Bellevue, WA, USA

## HONORS AND AWARDS

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|---|---|
| *University of Michigan IOE Richard C. Wilson Prize for Best Student Paper* | *2023* |
| *Rackham Travel Grant by University of Michigan* | *2022, 2023* |
| *Graduate Fellowship by Industrial and Operations Engineering at University of Michigan* | *2019* |
| *Technology Innovation Award by Tsinghua University* | *2018* |
| *Meritorious Winner of 2018 MCM/ICM as team leader* | *2018* |
| *CSC Scholarships by China Scholarship Council* | *2017* |
| *Star Student of Winter Time Social Practice Program* | *2016* |
| *Guanghua Scholarships by Tsinghua University* | *2016* |
| *Academic Excellence Reward by Tsinghua University* | *2016* |
| *Social Practice Excellence Reward by Tsinghua University* | *2016* |
| *First Prize in the $30^{th}$ National Mathematical Olympiad in Jiangsu Province* | *2015* |
| *First Prize in the $32^{nd}$ Chinese Physics Olympiad in Jiangsu Province* | *2015* |

## TEACHING/MENTORING

**Instructor, University of Miami**

- MGT 303 P: Operations Management — *Spring 2025 (4.4/5.0) Resp/Enroll [19/40]*
- MGT 303 R: Operations Management — *Spring 2025 (4.2/5.0) Resp/Enroll [15/40]*
- MGT 303 P: Operations Management — *Spring 2025 (4.4/5.0) Resp/Enroll [14/40]*

**Graduate Student Instructor, University of Michigan**

- IOE 516: Stochastic Processes II — *Winter 2022 (4.8/5.0), 2023 (4.9/5.0)*
  - Instructor: Prof. Cong Shi
  - Responsibilities: lecturing (when the professor is away), weekly office hours, homework grading

- IOE 541: Optimization Methods in Supply Chain — *Fall 2022 (4.8/5.0)*
  - Instructor: Prof. Cong Shi
  - Responsibilities: lecturing (when the professor is away), weekly office hours, homework grading

- IOE 611/MATH 633: Nonlinear Programming — *Fall 2021 (4.6/5.0)*

- Instructor: Prof. Salar Fattahi

- Responsibilities: weekly office hours, homework grading

- IOE 511/Math 562: Continuous Optimization Methods *Winter 2021 (4.5/5.0)*

  - Instructor: Prof. Albert S. Berahas

  - Responsibilities: weekly office hours, homework grading

**IOE Ph.D. Mentor Program, University of Michigan**

- Geyu Liang, IOE PhD Student *2021 - 2022*

  - Responsibilities: answering questions, assistance in going through the program

## SERVICES AND PROFESSIONAL ACTIVITIES

- Reviewer for *Operations Research*, *Management Science*, *Manufacturing and Service Operations Management*, *Production and Operations Management*, *Operations Research Letters*

- Graduate Student Coordinator, Department of Industrial and Operations Engineering, University of Michigan *July 2021 - July 2023*

  - Responsibilities: Graduate Student Orientation, Recruitment Weekend, Graduate Student Mentoring Guide, Graduate Banquet, Office Assignments, Grad Picnic

- Member of the Student Leadership Board, Department of Industrial and Operations Engineering, University of Michigan *July 2021 - July 2023*

  - Responsibilities: Student Leadership Board Meetings