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 (Xingyuan) 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

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

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
  - Students' comments not collected.
- IOE 511/Math 562: Continuous Optimization Methods *Winter 2021 (4.5/5.0)*

- Instructor: Prof. Albert S. Berahas
- Responsibilities: weekly office hours, homework grading
- Students' comments not collected.

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