

JINGWEN TANG

Ph.D. Candidate

Department of Industrial and Operations Engineering, University of Michigan
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EDUCATION

University of Michigan, Ann Arbor, MI, USA

Ph.D. in Industrial and Operations Engineering (GPA: 4.0/4.0)

Advisor: Professor Cong Shi

Joint Ph.D. in Scientific Computing

August 2019 - Present

(Expected April 2024)

May 2021 - Present

Tsinghua University, Beijing, China

B.S. in Industrial Engineering

July 2015 - June 2019

University of California, Davis, CA, USA

Study in Statistics

UC Education Abroad Program (UCEAP) Reciprocity Student

Sep 2017 - Dec 2017

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 and Service Operations Management***, to appear.
Winner of University of Michigan IOE Richard C. Wilson Prize for Best Student Paper.

PAPERS UNDER REVIEW/WORKING PAPERS

1. “Multiproduct Inventory Systems with Upgrading: Replenishment, Allocation, and Online Learning”, **Jingwen Tang**, Izak Duenyas*, Cong Shi*, Nan Yang*, under review.
2. “Offline Feature-Based Pricing under Censored Demand: A Causal Inference Approach”,
Jingwen Tang, Zhengling Qi, Ethan (Xingyuan) Fang, Cong Shi.
3. “Remunerating Newsvendor Problem in a Two-Sided Market”,
Jingwen Tang, Cong Shi, Izak Duenyas.

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

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 30th National Mathematical Olympiad in Jiangsu Province 2015
First Prize in the 32nd 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

TECHNICAL STRENGTHS

Programming Languages: C, C++, Java, Python, Matlab, R, SAS, SQL

Packages: CPLEX, Gurobi, OpenMP, MPI, CUDA