

# JINGWEN TANG

Ph.D. Candidate

Department of Industrial and Operations Engineering, University of Michigan  
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## EDUCATION

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**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

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**Methodologies:** Online Learning Algorithms, Machine Learning, Approximation Algorithms

**Applications:** Supply Chain Management, Revenue Management, Service Operations

## JOURNAL PUBLICATIONS

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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

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1. “Multiproduct Inventory Systems with Upgrading: Replenishment, Allocation, and Online Learning”, **Jingwen Tang**, Izak Duenyas\*, Cong Shi\*, Nan Yang\*<sup>1</sup>, 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

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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*.

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<sup>1</sup>\* Authors are listed in alphabetic order.

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

## INDUSTRY EXPERIENCE

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**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<sup>th</sup> National Mathematical Olympiad in Jiangsu Province* 2015  
*First Prize in the 32<sup>nd</sup> Chinese Physics Olympiad in Jiangsu Province* 2015

## TEACHING/MENTORING

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### 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

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- 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

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

**Packages:** CPLEX, Gurobi, OpenMP, MPI, CUDA