

Tongwen Wu

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RESEARCH INTERESTS

Data-driven decision-making, artificial intelligence and data science, revenue management and platform design, and online/approximation algorithm design

ACADEMIC EMPLOYMENT

Rotman School of Management, University of Toronto, Postdoctoral Fellow Nov 2024 - Present

- Under supervision of [Ming Hu](#) and [Shreyas Sekar](#)

City University of Hong Kong, Postdoctoral Fellow Oct 2023 - Oct 2024

- Under supervision of [Yanzhi Li](#)

EDUCATION

City University of Hong Kong, Ph.D. in Decision Analytics and Operations Sept 2019 – Oct 2023

- Supervisor: [Yanzhi Li](#)

Sun Yat-Sen University, B.Eng. in Computer Science and Technology Aug 2015 – June 2019

WORKING PAPERS

($\alpha - \beta$ indicates listing authors in alphabetical order)

- Qiaochu Fu, Woonghee Tim Huh, Yanzhi Li, and **Tongwen Wu** ($\alpha - \beta$). [Joint Inventory and Assortment Optimization under General Choice Models](#). Under minor revision at *Operations Research*. 2025.
- Ming Hu, Shreyas Sekar, and **Tongwen Wu** ($\alpha - \beta$). [Philosopher Inequality for Online Assortment Optimization](#). Under review at *Operations Research*. 2026.
 - Extended Abstract at the *Proceedings of the 27th ACM Conference on Economics and Computation (EC '26)*
- Ming Hu, Yanzhi Li, and **Tongwen Wu** ($\alpha - \beta$). [Diversity-Fair Online Selection](#). Under R&R at *Operations Research*. 2025.
- **Tongwen Wu**, Woonghee Tim Huh, Menglong Li, and Yanzhi Li. A Sequential Multi-Purchase Markov Chain Choice Model: Identification, Estimation and Assortment Optimization. Under major revision at *Manufacturing & Service Operations Management*. 2025.

JOURNAL PUBLICATIONS

- Ming Hu and **Tongwen Wu** ($\alpha - \beta$). [Constant-Factor Algorithms for Revenue Management with Consecutive Stays](#). Forthcoming at *Operations Research*. 2025.
- **Tongwen Wu**, Zuo-Jun Max Shen, and Yanzhi Li. [Anticipatory Packing](#). Forthcoming at *Manufacturing & Service Operations Management*. 2024.

CONFERENCE PUBLICATIONS

- Ming Hu, Shreyas Sekar, and **Tongwen Wu** ($\alpha - \beta$). [Philosopher Inequality for Online Assortment Optimization](#). *Proceedings of the 27th ACM Conference on Economics and Computation (EC '26)*
- **Tongwen Wu**, Yu Yang, Yanzhi Li, Huiqiang Mao, Liming Li, Xiaoqing Wang, and Yuming Deng. Representation Learning for Predicting Customer Orders. *ACM SIGKDD Conference on Knowledge Discovery & Data Mining (KDD '21)*. 2021. pp. 3735–3744.
- **Tongwen Wu**, Zizhen Zhang, Yanzhi Li, and Jiahai Wang. Collective Mobile Sequential Recommendation: A Recommender System for Multiple Taxicabs. *International Conference on Tools with Artificial Intelligence (ICTAI)*. 2019. pp. 1260-1264

- **Tongwen Wu**, Huiqiang Mao, Yanzhi Li, and Di Chen. Assortment Selection for a Frontend Warehouse: A Robust Data-Driven Approach. *International Conference on Computers and Industrial Engineering (CIE 2019)*. 2019.

TEACHING EXPERIENCE

- Tutorial, CB2200 Business Statistics, Fall 2022, City University of Hong Kong
- Teaching Assistant, CB2201 Operations Management, Fall 2020 - Spring 2022, City University of Hong Kong

HONORS & AWARDS

- Outstanding Academic Performance Award for Research Degree Students, City University of Hong Kong, 2021
- Research Tuition Scholarship, City University of Hong Kong, 2020
- Gold Medal in International Collegiate Programming Contest (ICPC) & China Collegiate Programming Contest (CCPC), 2016 & 2017

PRESENTATIONS

- EC Conference, Rome, 2026
- M&SOM Conference, Minneapolis, 2024
- INFORMS Annual Meeting, Seattle, 2024
- Marketplace Innovation Workshop, 2025
- POMS-HK, 2022 and 2023, Hong Kong, China

PROFESSIONAL SERVICE

- Reviewer for *Operations Research*, *M&SOM Conference*, *WINE*
- Reviewer for *ACM Transactions on Knowledge Discovery from Data*
- Reviewer for General Research Fund, Research Grants Council of Hong Kong

INDUSTRIAL EXPERIENCE

- Research Internship, Alibaba Group, Aug 2021 - Dec 2021
Digital Supply Chain Management Department

SKILLS

C++, Python, Java, SQL, ~~WEX~~

References

Prof. Ming Hu (postdoctoral supervisor)	University of Toronto Distinguished Professor of Business Operations and Analytics Rotman School of Management, University of Toronto ming.hu@rotman.utoronto.ca
Prof. Shreyas Sekar (postdoctoral supervisor)	Assistant Professor of Operations Rotman School of Management, University of Toronto shreyas.sekar@rotman.utoronto.ca
Prof. Yanzhi Li (Ph.D. advisor)	Professor, Head of Department of Marketing College of Business, City University of Hong Kong yanzhili@cityu.edu.hk
Prof. Woonghee Tim Huh (Close collaborator)	Canada Research Chair in Business Analytics and Operations Excellence Sauder School of Business, University of British Columbia tim.huh@sauder.ubc.ca