# Tong Xie

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| CONTACT INFORMATION | 5751 S Woodlawn Ave<br>McGiffert House<br>Chicago, IL 60637 | +1 (872) 904-5747<br>tong.xie@chicagobooth.edu<br>https://tongxie17.github.io/ |

RESEARCH INTERESTS

My research focuses on algorithmic markets, where firms increasingly rely on algorithms for pricing, inventory, and operational decisions. I study how algorithmic interactions can facilitate collusion and how platform interventions can regulate such behavior and promote competition. Those interventions may also potentially reshaping market stability and long-run market outcomes.

EDUCATION

**The University of Chicago, Booth School of Business** — Chicago, IL
Ph.D. in Operations Management — 2022–Present
Advisor: René Caldentey

**Hong Kong University of Science and Technology** — Hong Kong
M.Phil. in Industrial Engineering and Decision Analytics — 2021–2022

**The Chinese University of Hong Kong, Shenzhen** — Shenzhen, China
B.B.A. in Economic Science — 2016–2020
*First Class Honours*

JOURNAL PUBLICATIONS

"Personalized Assortment Optimization under Consumer Choice Models with Local Network Effects," with Zizhuo Wang, 2024. ***Operations Research 73***(3), 1289-1306. [link]

WORKING PAPERS

"Speed of Intervention in Algorithmic Markets: Controlling Collusion and Stability," with René Caldentey and Martin Haugh.

"Intertemporal Order-Flow Allocation for Inventory Control in Two-Sided Platforms," with René Caldentey.

"Bundling and Pricing Decisions for Ancillary Products," with René Caldentey.

"Integrating Choice Paralysis into the MNL," with René Caldentey and Srikanth Jagabathula, 2025. *Under Review.* [link]

CONFERENCE PROCEEDINGS

"Personalized Assortment Optimization under Consumer Choice Models with Local Network Effects," with Zizhuo Wang. In WINE'22: Proceedings of the 18th Conference on Web and Internet Economics, 2022. [link]

EXPERIENCES

**Quantitative Researcher Intern**, Shengguanda Private Fund — Summer 2020
**Exchange Student**, University of St.Gallen — Spring 2019

HONORS AND AWARDS

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| Ph.D. Fellowship, Booth School of Business | 2022-2027 |
| Academic Performance Scholarship, CUHK-Shenzhen | 2017-2018 |
| Dean's list, CUHK-Shenzhen | 2017-2020 |

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| TEACHING EXPERIENCE | **The University of Chicago, Booth School of Business** |

*Teaching Assistant*

- Revenue Management (MBA) — Spring 2024, 2025
- Operations Management (MBA) — Autumn 2024
- Operations Management (EMBA) — Winter 2026

SELECTED TALKS

*Integrating Choice Paralysis into the MNL*

- INFORMS Annual Meeting, Atlanta — 2025
- Revenue Management and Pricing (RMP) Conference, New York — 2025

*Bundling and Pricing Decisions for Ancillary Products*

- INFORMS Annual Meeting, Seattle — 2024
- Revenue Management and Pricing (RMP) Conference, Los Angeles — 2024
- INFORMS Annual Meeting, Phoenix — 2023

*Personalized Assortment Optimization under Consumer Choice Models with Local Network Effects*

- International Conference of the Chinese Scholars Association for Management Science (CSAMSE), Shenzhen — 2023
- POMS Annual Conference, Orlando — 2023
- The 18th Conference on Web and Internet Economics (WINE), Albany — 2022

REFERENCES

**René Caldentey**
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**Martin Haugh**
Associate Professor of Analytics and Operations Research
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Imperial College London
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**Srikanth Jagabathula**
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