CHEN, LI

The University of Sydney Business School
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RESEARCH INTERESTS

Methodologies:	Optimization Under Uncertainty, Data-Driven Decision Making
Applications:	Supply Chain Management, Smart City Operations, Sustainable Operations

ACADEMIC APPOINTMENT

The University of Sydney (USYD)
Lecturer (Assistant Professor), The Discipline of Business Analytics — *October 2023 - Present*

National University of Singapore (NUS)
Research Fellow, Institute of Operations Research and Analytics — *August 2022 - August 2023*

EDUCATION

National University of Singapore (NUS) — *August 2017 - July 2022*
Ph.D. in Operations Research and Analytics
Thesis: "Optimization under uncertainty using exponential cones"

University of Science and Technology of China (USTC) — *August 2013 - June 2017*
BSc in Computational Mathematics, Hua Loo-Keng Talent Program

WORKING PAPERS

[CRR25] Li Chen, Arjun Ramachandra, and Rujeerapaiboon. "Robust data-driven CARA optimization". In: *Available at SSRN 5130565* (2025).

[CCS23] Li Chen, Mabel C Chou, and Qinghe Sun. "Process flexibility: A distribution-free approach to long chain resilience". In: *Available at SSRN 4533519* (2023).

PUBLICATIONS

[CS25] Li Chen and Melvyn Sim. "Robust CARA optimization". In: *Operations Research* 73.3 (2025), pp. 1459–1478.

[Che+25] Li Chen, Melvyn Sim, Xun Zhang, Long Zhao, and Minglong Zhou. "Robust actionable prescriptive analytics". In: *Operations Research* (2025).

[Che+24] Li Chen, Chenyi Fu, Fan Si, Melvyn Sim, and Peng Xiong. "Robust optimization with moment-dispersion ambiguity". In: *Operations Research* (2024).

[CHZ24] Li Chen, Long He, and Yangfang Zhou. "An exponential cone programming approach for managing electric vehicle charging". In: *Operations Research* 72.5 (2024), pp. 2215–2240.

[Sun+23] Qinghe Sun, Li Chen, Mabel C Chou, and Qiang Meng. "Mitigating the financial risk behind emission cap compliance: A case in maritime transportation". In: *Production and Operations Management* 32.1 (2023), pp. 283–300.

[SCM22]   Qinghe Sun, Li Chen, and Qiang Meng. "Evaluating port efficiency dynamics: A risk-based approach". In: *Transportation Research Part B: Methodological* 166 (2022), pp. 333–347.

TEACHING EXPERIENCE

- Instructor for *QBUS2310: Management Science* at USYD in S2 2024, S1 2025
- Tutor for *Optimization in Data Science & Machine Learning* at NUS in Summer 2022
- Tutor for *MA3252: Linear and Network Optimization*, at NUS in Spring 2019
- TA for *DBA3701: Introduction to Optimization* at NUS in Fall 2018, 2022
- TA for *BDC6304: Robust Modelling and Optimization* at NUS in Spring 2022
- TA for *MA5268: Theory and Algorithm for Nonlinear Optimization* at NUS in Fall 2019

RESEARCH AWARDS & FELLOWSHIPS

- Runner-Up in INFORMS Computing Society Harvey Greenberg Research Award 2023
- Emerging Scholar Research Fellowship, University of Sydney Business School 2024
- Third Place in Best Paper, Institute of Supply Chain and Operations Management 2024
- Finalist in The First INFORMS TSL Data-Driven Research Challenge 2025

CONFERENCE PRESENTATIONS

- *ICSP 2025*
- *POMS-HK International Conference 2023, 2024, 2025*
- *Joint Meeting of the NZMS, AustMS and AMS 2024*
- *ISMP 2024*
- *WOMBAT 2023*
- *INFORMS Annual Meeting 2019, 2021, 2022, 2023*
- *POMS-China International Conference 2023*
- *SIAM Conference on Optimization 2023*
- *CSAMSE Annual Conference 2019, 2021*
- *M&SOM Conference 2021*
- *POMS Annual Conference 2021*

PROFESSIONAL SERVICE

- Referee for *IISE Transactions, INFORMS Journal on Computing, Journal of Global Optimization, Management Science, Manufacturing and Service Operations Management, Mathematical Programming Computation, Mathematics of Operations Research, Omega, Operations Research, Optimization and Engineering, Production and Operations Management, Transportation Research Part B: Methodological*
- Seminar Coordinator for *USYD Business Analytics Research Seminar 2024, 2025*
- Judge for *POMS-HK Best Student Paper Competition 2025*
- Organization Committee for *WOMBAT 2024*

- Organization Committee for *Analytics for X Conference 2022*
- Session Chair for *INFORMS International Conference 2025*
- Session Chair for *INFORMS Annual Meeting 2022, 2023*
- Session Chair for *Analytics for X Conference 2021, 2022*
- Student Helper for *MSOM Conference 2019*