



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 EXPERIENCE

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)

Ph.D. in Operations Research and Analytics

Thesis: “Optimization under uncertainty using exponential cones”

August 2017 - July 2022

University of Science and Technology of China (USTC)

BSc in Computational Mathematics, Hua Loo-Keng Talent Program

August 2013 - June 2017

WORKING PAPERS

- [Che+24] Li Chen, Arjun Ramachandra, Napat Rujeerapaiboon, and Melvyn Sim. “Robust Data-Driven CARA Optimization”. In: *arXiv e-prints* (2024), arXiv–2107.
- [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).
- [Che+23] Li Chen, Chenyi Fu, Fan Si, Melvyn Sim, and Peng Xiong. “Robust Optimization with Moment-Dispersion Ambiguity”. In: *Available at SSRN 4525224* (2023).
- [Che+22] Li Chen, Melvyn Sim, Xun Zhang, Long Zhao, and Minglong Zhou. “Robust actionable prescriptive analytics”. In: *Available at SSRN 4106222* (2022).

PUBLICATIONS

- [CS24] Li Chen and Melvyn Sim. “Robust CARA optimization”. In: *Operations Research* (2024).
- [CHZ23] Li Chen, Long He, and Yangfang Zhou. “An exponential cone programming approach for managing electric vehicle charging”. In: *Operations Research* (2023).
- [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
- 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

CONFERENCE PRESENTATIONS

- **International Symposium on Mathematical Programming (ISMP) 2024**
- *INFORMS Annual Meeting 2019, 2021, 2022, 2023*
- *POMS-HK International Conference 2023, 2024*
- *WOMBAT/WICO 2023*
- *SIAM Conference on Optimization 2023*
- *POMS-China International Conference 2023*
- *CSAMSE Annual Conference 2019, 2021*
- *M&SOM Conference 2021*
- *POMS Annual Conference 2021*

PROFESSIONAL SERVICE

- Referee for *Operations Research*, *Transportation Research Part B: Methodological*, *Mathematical Programming Computation*, *Mathematics of Operations Research*, *Journal of Global Optimization*, *INFORMS Journal on Computing*, *IIE Transactions*
- Seminar Coordinator for USYD BA Research Seminar in S1 2024
- Organization Committee for *WOMBAT 2024*
- Organization Committee for *Analytics for X Conference 2022*
- Session Chair for *INFORMS Annual Meeting 2022, 2023*
- Session Chair for *Analytics for X Conference 2021, 2022*
- Student Helper for *MSOM Conference 2019*