



CHEN, LI

The University of Sydney Business School
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RESEARCH INTERESTS

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

ACADEMIC EXPERIENCE

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

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

EDUCATION

National University of Singapore *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 *August 2013 - June 2017*
BSc in Computational Mathematics, Hua Loo-Keng Talent Program

WORKING PAPERS

“Robust CARA Optimization” (with Melvyn Sim)

“Robust Actionable Prescriptive Analytics” (with Melvyn Sim, Xun Zhang, Long Zhao and Minglong Zhou)

“Robust Optimization with Moment-Dispersion Ambiguity” (with Chenyi Fu, Fan Si, Melvyn Sim, Peng Xiong)

“Process Flexibility: A Distribution-Free Approach to Long Chain Resilience” (with Qinghe Sun and Mabel Chou)

PUBLICATIONS

“An Exponential Cone Programming Approach for Managing Electric Vehicle Charging” (with Long He and Yangfang (Helen) Zhou)

- *Operations Research*, 2023+
- Runner-up in INFORMS Computing Society Harvey Greenberg Research Award 2023

“Mitigating the Financial Risk Behind Emission Cap Compliance: A Case in Maritime Transportation” (with Qinghe Sun, Qiang Meng, Mabel Chou)

- *Production and Operations Management*, 2023

“Evaluating Port Efficiency Dynamics: A Risk-based Approach” (with Qinghe Sun and Qiang Meng)

- *Transportation Research Part B: Methodological*, 2022

TEACHING EXPERIENCE

- DBA3701: Introduction to Optimization (Undergraduate in Business), TA, Fall 2018, 2022
- BDC6304: Robust Modelling and Optimization (Ph.D. level), TA, Spring 2022
- Optimization in Data Science & Machine Learning (NUS Graduate Summer School), Tutor, 2022
- MA5268: Theory and Algorithm for Nonlinear Optimization (Ph.D. level), TA, Fall 2019
- MA3252: Linear and Network Optimization (Undergraduate in Math), Tutor, Spring 2019

CONFERENCE PRESENTATIONS

- Robust Actionable Prescriptive Analytics
 - *SIAM Conference on Optimization 2023*
 - *POMS-HK International Conference 2023*
 - *INFORMS Annual Meeting 2022*
- Robust CARA Optimization
 - *POMS International Conference in China 2023*
 - *INFORMS Annual Meeting 2021*
- An Exponential Cone Programming Approach for Managing Electric Vehicle Charging
 - *CSAMSE Annual Conference 2019, 2021*
 - *INFORMS Annual Meeting 2019, 2021*
 - *POMS 31st Annual Conference 2021*
 - *MSOM Conference 2021*

PROFESSIONAL SERVICE

- Referee for *Operations Research, Transportation Research Part B: Methodological, Mathematical Programming Computation*
- Organization Committee for *Analytics for X Conference 2022*
- Session Chair for *Analytics for X Conference 2021, 2022; INFORMS Annual Meeting 2022*
- Student Helper for *MSOM Conference 2019*