

# CHEN, LI

The University of Sydney Business School  
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## RESEARCH INTERESTS

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

## ACADEMIC EXPERIENCE

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**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

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**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

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“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

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“Robust CARA Optimization” (with Melvyn Sim)

- *Operations Research*, 2023+

“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

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- 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

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- Robust Optimization with Moment-Dispersion Ambiguity
  - *INFORMS Annual Meeting 2023*
  - *POMS-HK International Conference 2024*
- Robust Actionable Prescriptive Analytics
  - *WOMBAT/WICO 2023*
  - *SIAM Conference on Optimization 2023*
  - *POMS-HK International Conference 2023*
  - *INFORMS Annual Meeting 2022*
- Robust CARA Optimization
  - *POMS-China International Conference 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

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- Referee for *Operations Research*, *Transportation Research Part B: Methodological*, *Mathematical Programming Computation*, *Mathematics of Operations Research*, *Journal of Global Optimization*
- Organization Committee for *Analytics for X Conference 2022*
- Session Chair for *Analytics for X Conference 2021, 2022*
- Session Chair for *INFORMS Annual Meeting 2022, 2023*
- Student Helper for *MSOM Conference 2019*