# **YILIN XUE**

National University of Singapore, 21 Lower Kent Ridge Road, Singapore, 119077 Email: yilinxue@nus.edu.sg

#### **EDUCATION**

#### **National University of Singapore**

August 2020 - December 2024

Ph.D. in Industrial Systems Engineering & Management

Dissertation: Risk- and Ambiguity-Averse Optimization Made More Tractable and Less Conservative

**National University of Singapore** 

August 2019 - June 2020

M.Sc. in Supply Chain Management

Jinan University

B.M. in Logistics Management

September 2015 - June 2019

### ACADEMIC AND INDUSTRIAL EXPERIENCE

#### **National University of Singapore**

August 2024 - Present

Postdoctoral Research Fellow

Mentor: Melvyn Sim, Napat Rujeerapaiboon

#### **National University of Singapore**

January 2020 - June 2020

Research Assistant

Mentor: Napat Rujeerapaiboon

GAC TOYOTA September 2018 - April 2019

Production Management Intern

Managed Inventory and Participated in Overflow Reduction Project Staff Member in the 2018 e-Kanban Global Joint Study Session

#### RESEARCH INTERESTS

**Methodologies**: Robust and Distributionally Robust Optimization, Data-Driven Decision Making **Applications**: Supply Chain Management, Humanitarian Logistics, Disaster Relief Operations

#### **PUBLICATIONS**

- [1] Utility Elicitation and Maximization from Uncertain Certainty Equivalents with Napat Rujeerapaiboon and Chunling Luo
  Accepted by **IISE Transactions (2025), pp. 1–26**
- [2] Target-Oriented Regret Minimization for Satisficing Monopolists with Napat Rujeerapaiboon and Yize Wei
  Accepted by Proceedings of The 19th Conference on Web and Internet Economics (WINE 2023, CCF-A ranking, Top-tier Conference), pp. 563-581
- [3] A Revised Approach for Risk-Averse Multi-Armed Bandits under CVaR Criterion with Najakorn Khajonchotpanya and Napat Rujeerapaiboon
  Accepted by Operations Research Letters (2021), Vol. 49, Issue 4, pp. 65-472

#### **WORKING PAPERS**

- [1] Robust Benchmark Satisficing with Napat Rujeerapaiboon and Melvyn Sim Submitted to **Operations Research**
- [2] Robustness and Regret Tolerance
  with Napat Rujeerapaiboon
  Submitted to Manufacturing & Service Operations Management
- [3] Data-Driven Disaster Relief Network Design with Guarantees from CVaR and Joint Chance Constraint: Cutting Plane Algorithm and LDR Approximation with Yongzhen Li, Napat Rujeerapaiboon, Jia Shu and Weijie Xu Submitted to INFORMS Journal on Computing
- [4] Distributionally Robust Inventory Management with Advance Purchase Contracts with Yongzhen Li and Napat Rujeerapaiboon

  To be submitted to **Mathematical Programming**
- [5] Cost-Sensitive and Envy-Resistant Consensus in Group Decision Making with Jing Tang, Xinwang Liu and Napat Rujeerapaiboon
  Submitted to Journal of the Operational Research Society

#### **INVITED TALKS**

• INFORMS 2025 Annual Meeting, Atlanta, USA	October 2025
• The 17th International Conference on Stochastic Programming 2025, Paris, France	July 2025
• The 15th POMS-HK International Conference, Hong Kong, China	January 2025
• SIAM Conference on Optimization 2023, Seattle, USA	June 2023
• European Conference on Stochastic Optimization - Computational Management Science Conference 2022, Venice, Italy	July 2022
• The 2022 POMS-China International Conference, Xi'an, China	June 2022
• The OR Society's 63rd Annual Conference	September 2021

#### TEACHING EXPERIENCE

• IE6001 Foundations of Optimization (Ph.D.)	Fall of 2022, 2023
• IE5881 Markovian Analytics (M.Sc.)	Spring of 2022
• IE2141 Systems Thinking and Dynamics (B.S.)	Spring of 2021, 2023
• IE3101 Statistics for Engineering Applications (B.S.)	Fall of 2021

### **PERSONAL**

**Languages** Teochew (native), Mandarin (native), English (fluent) **Hobbies** Bouldering, Traveling

## **REFERENCES**

## Melvyn Sim

Professor of Department of Analytics & Operations National University of Singapore

Email: melvynsim@gmail.com

## Napat Rujeerapaiboon

Assistant Professor of Department of Industrial Systems Engineering & Management

National University of Singapore

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## Yongzhen Li

Associate Professor of Department of Management Science and Engineering

Southeast University

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