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Bei Lin

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Department of Management Science and Engineering,
School of Business, Renmin University of China

EDUCATION

Renmin University of China **Beijing, China**
Ph.D. Candidate in Management Science and Engineering *Sep. 2021 – Present*
Advisor: Prof. Xiaoyu Ji

National University of Singapore **Singapore**
Visiting Research Student, NUS Business School *Nov. 2024 – Dec. 2025*
Host: Prof. Ian Yihang Zhu

Renmin University of China **Beijing, China**
Bachelor of Management in Management Science *Sep. 2017 – Jun. 2021*
Advisor: Prof. Yunjie Wang

RESEARCH INTERESTS

Robust Optimization, Data-Driven Optimization, Inverse Optimization, Cooperative Game Theory, Carbon Neutrality, Transportation and Logistics, Incentive Design

WORKING PAPERS

1. **B. Lin**, B. Lin, X. Ji, I. Y. Zhu. Enabling Cooperation Through Decision-Focused Interventions. *In preparation for Manufacturing & Service Operations Management.*

PUBLISHED PAPERS

1. **B. Lin**, X. Ji, Y. Wang, Y. He. (2026). Robust infrastructure design for carbon capture utilization and storage considering carbon emission uncertainty. *Omega*, 141, 103512.
2. Y. Wang, X. Ji, **B. Lin**. (2025). The choice of recycling and remanufacturing strategy for power battery supply chain under carbon border adjustment mechanism and cap-and-trade. *Transportation Research Part E: Logistics and Transportation Review*, 203, 104384.

PROJECT EXPERIENCE

Dynamic Modeling and Simulation of Carbon Control System in Oil Companies Beijing, China
Sinopec Petroleum Exploration and Production Research Institute *Sep. 2023 – Present*
Core Member

- Analyzed key factors influencing carbon control decisions in oil companies and developed a system dynamics flow framework.
- Built a multi-stage optimization model for carbon asset management in petrochemical enterprises under carbon neutrality targets.
- Conducted simulation analyses of carbon control strategies under different policy settings, parameter configurations, and emission reduction scenarios.

Optimization Methods for Source–Sink Matching in Carbon Storage and Utilization Beijing, China
Research Institute of Petroleum Exploration and Development *Oct. 2020 – Jun. 2022*
Core Member

- Developed single-objective and multi-objective dynamic optimization models for source–sink matching in carbon capture, utilization, and storage.
- Designed genetic algorithm-based solution approaches for the proposed optimization models.
- Performed sensitivity analyses to evaluate model performance under environmental uncertainty.

SKILLS

- **Languages:** Mandarin (Native), English (CET-6)
- **Technical Skills:** Python, MATLAB, SQL, SPSS, Stata