

ZILIANG JIN

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RESEARCH INTERESTS

- **Methodologies:** Robust and Data-Driven Optimization, Stochastic and Discrete Optimization, Machine Learning
- **Applications:** Smart City Operations, Power and Energy Systems, Shared Mobility

EDUCATION

Faculty of Business, The Hong Kong Polytechnic University, Hong Kong
Ph.D., Operations Management, August 2020 – July 2024 (Expected)
- Hong Kong PhD Fellowship Scheme awardee
- Advisor: Dr. Kai Pan

KTH Royal Institute of Technology, Stockholm, Sweden
M.Sc., Production Engineering and Management, August 2018 – July 2020

South China University of Technology, Guangzhou, China
B.S., Industrial Engineering, August 2014 – June 2018

WORKING EXPERIENCE

The Hong Kong Polytechnic University Research Assistant	Mar 2018 – Jun 2018, Jun 2019 – Aug 2019
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RESEARCH PAPERS

Publications

- [1] **Ziliang Jin**, Yulan Wang, Yun Fong Lim, Kai Pan, Zuo-Jun Max Shen. “Vehicle Rebalancing in A Shared Micromobility System with Rider Crowdsourcing,” *Manufacturing & Service Operations Management*, 25(4): 1394–1415, 2023. (UTD Top-24 Business Journal)
- [2] Qian Lei, Juan He, Chao Ma, **Ziliang Jin**. “The Impact of Consumer Behavior on Preannounced Pricing for A Dual-Channel Supply Chain,” *International Transactions in Operational Research*, 27(6): 2949–2975, 2020.
- [3] **Ziliang Jin**, Kai Pan, Lei Fan, Tao Ding. “Data-Driven Look-Ahead Unit Commitment Considering Forbidden Zones and Dynamic Ramping Rates,” *IEEE Transactions on Industrial Informatics*, 15(6): 3267–3276, 2019. (IF: 12.3, Flagship Journal of IEEE Industrial Electronics Society)

Under Review/Revision

- [4] **Ziliang Jin**, Kai Pan, Zuo-Jun Max Shen, Wenxin Xu. “Integrated Vehicle Allocation and Relocation for Shared Micromobility under Competition and Demand Uncertainty,” reject and resubmit at *Production and Operations Management*. (UTD Top-24 Business Journal)
- [5] **Ziliang Jin**, Jianqiang Cheng, Kai Pan, Zuo-Jun Max Shen, Yulan Wang. “Data-Driven Operations for a Grid-Vehicle Integration System,” under review at *Management Science*. (UTD Top-24 Business Journal)

Work in Progress

- Jiushenzi Luo, **Ziliang Jin**, Kai Pan, Ding Zou. “Distributionally Robust Optimization for Shared Mobility Operations with Vehicle-to-Grid Electricity Selling,” to be submitted to *INFORMS Journal on Computing*. (UTD Top-24 Business Journal)

- **Ziliang Jin**, Jianqiang Cheng, Daniel Zhuoyu Long, Kai Pan. “Data-Driven Robust Optimization with Domain-Aware Information,” in progress.

INVITED TALKS

- “Data-Driven Operations for a Grid-Vehicle Integration System,” 2023 INFORMS Annual Meeting, October 2023, Phoenix, United States
- “Vehicle Rebalancing in a Shared Micromobility System with Rider Crowdsourcing,” The 15th International Annual Conference of the Chinese Scholars Association for Management Science and Engineering (CSAMSE), July 2023, Shenzhen, China
- “Vehicle Rebalancing in a Shared Micromobility System with Rider Crowdsourcing,” 2023 POMS International Conference in China, July 2023, Hangzhou, China
- “Data-Driven Operations for a Smart Vehicle-Grid System,” 2022 INFORMS Annual Meeting, October 2022, Indianapolis, United States
- “Capacity Sharing for Bicycle-Sharing Firms Under Demand Uncertainty,” The 12th POMS-HK International Conference, January 2022, Hong Kong
- “Capacity Sharing Between Competing Bicycle-Sharing Firms,” The 22nd Conference of the International Federation of Operational Research Societies (IFORS), August 2021, Seoul, South Korea

HONORS & AWARDS

- Hong Kong PhD Fellowship Scheme awardee 2020
- The most competitive PhD scholarship in Hong Kong. Supported by Research Grants Council of Hong Kong.
- Outstanding Service, Production & Operations Management Society 2021

TEACHING EXPERIENCE

The Hong Kong Polytechnic University

Teaching Assistant:

1. LGT4017: Information Systems for Logistics Management, 2022 Spring
2. LGT4115: E-commerce and Logistics, 2022 Spring
3. LGT5113: Enterprise Resource Planning, 2022 Spring

PROFESSIONAL SERVICE

- Journal Reviewer: *IEEE Transactions on Sustainable Energy*, *RAIRO-Operations Research*
- Session Chair: 2022 INFORMS Annual Meeting