

# Zhenkang Peng

## EDUCATION

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### Shanghai Jiao Tong University

*Ph.D. in Management Science and Engineering*

2019.09-2024.06

- **Advisor:** Prof. Ying Rong.
- **Thesis:** Data-Driven Decision Making for Operations Management: Leveraging Machine Learning Techniques.

### Dalian University of Technology

*BS in Information Management and Information System*

2015.09-2019.06

## WORKING EXPERIENCE

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### The Chinese University of Hong Kong

*Post-doctoral Fellow*

2024.08- Now

- **Advisor:** Prof. Renyu (Philip) Zhang.

## INTERN EXPERIENCE

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### Meituan

Shanghai, China

*Operational Algorithm Engineer*

2022.09-2024.11

- Developed data pooling methods to improve ordering policies for long-tail products with sparse sales data, reducing variance in demand estimation and associated costs.

## PUBLICATIONS

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### Working Papers

- Peng, Z., Li, C., Rong, Y., Luo, Z., Ma, G. & Zhao, M. (2025) Flexible Data Aggregation for Prediction and Decision Making: Applications in Retailing. (**Major Revision in Manufacturing & Service Operations Management**)
  - First Price, 2025 M&SOM Practice-based Competition.
- Li, C., Peng, Z. & Rong, Y. (2025). Mostly Beneficial Clustering: Aggregating Data for Operational Decision Making. arXiv preprint arXiv:2311.17326. (**Minor Revision in Management Science**)
  - Nomination, Best Student Paper Award in 2024 POMS International Conference in China.
- Peng, Z., Li, C., Rong, Y., & Zhang, R. (2025) Synthesizing Evidence: Data-Pooling as a Tool for Treatment Selection in Online Experiments. (**Major Revision in Management Science**)
- Liao, X., Peng, Z., Rong, Y. Theory-Guided Deep Learning for Perishable Inventory Systems with Random Lead Time. (**Unsubmitted manuscript**)

### Published/Accepted Papers

- Peng, Z., Rong, Y. & Zhu, T. (2024). Transformer-Based Choice Model: A Tool for Assortment Optimization Evaluation. *Naval Research Logistics (NRL)*, 1–24.
  - Honorable Mention, 2024 POMS EEDSA Award for Asia-Pacific Region.
- Ding, J. & Peng, Z. (2024). Heuristics for Perishable Inventory Systems Under Mixture Issuance Policies. *Omega*, 126:103078.
- Jeon, D., Lim, M. K., Peng, Z., & Rong, Y. (2021). Got organic milk? Joint inventory model with supply uncertainties and partial substitution. *Operations Research Letters*, 49(5), 663–670.

## **PROJECT EXPERIENCE**

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### **Simulation of the global supply chain under the Covid-19**

Shanghai, China

#### *Participants*

2020.07-2020.10

- Construct a simulation model for the global supply chain facing COVID-19 to study the impact of different pandemic scenarios on supply chain resilience and recovery under various ordering strategies.

## **CONFERENCE AND TALKS**

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### **Synthesizing Evidence: Data-Pooling as a Tool for Treatment Selection in Online Experiments.**

- The 17th International Annual Conference of Chinese Scholars in Management Science and Engineering (CSAMSE), Chengdu, China, July 26-27, 2025.
- The 2025 POMS International Conference in China, Danzhou, China, July 11-14, 2025.

### **Flexible Data Aggregation for Prediction and Decision Making: Applications in Retailing**

- The 15th POMS-HK International Conference, Hong Kong, China, January 3-5, 2025.
- 2024 INFORMS Annual Meeting, Seattle, U.S.A, October 20-23, 2024.
- The 4th National Supply Chain and Operations Management Academic Annual Conference (ISCOM), Shanghai, China, December 2-3, 2023.

### **Mostly Beneficial Clustering: Aggregating Data for Operational Decision Making**

- Club Bear Online Seminar, May 23, 2025.
- The 14th POMS-HK International Conference, Hong Kong, China, January 5-6, 2024.

### **Transformer-Based Choice Model: A Tool for Assortment Optimization Evaluation**

- The 34th POMS Annual Conference, Minneapolis, U.S.A, April 25-29, 2024.
- The 15th International Annual Conference of Chinese Scholars in Management Science and Engineering (CSAMSE), Shenzhen, China, July 29-30, 2023.

## **OTHER AWARDS**

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- Shanghai Jiao Tong University 2024 Outstanding PhD Graduate Development Scholarship
- 2024 Graduate High-level Academic Paper Award in Antai School of Economics and Management, Shanghai Jiao Tong University.
- ISCOM 2023 Shanshu Technology Practice-Driven Research Competition Paper, Third Prize.

## **SKILLS**

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- **Programming** - GPU-based coding, Python (Pandas, NumPy, PyTorch. etc.), R, SQL, LaTeX
- **Miscellaneous** - CET4, CET6, Tableau, Microsoft Office, Git.
- **Language Skills** - Chinese as mother tongue, fluent English