

Zhenkang Peng

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My Google Scholar Website Link
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EDUCATION

Shanghai Jiao Tong University

Ph.D. in Management Science and Engineering

2019.09-2024.06

- **Advisor:** Professor. 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

INTERN EXPERIENCE

Meituan

Shanghai, China

Operational Algorithm Engineer

2022.09-2023.12

- Aiming at the ordering problem of long-tail products in the enterprise, since 80% of the products in the enterprise have very few small sales data points, the separate demand estimation based on its own sales data induces high variance for ordering cost. My responsibility is to utilize the idea of data pooling to increase the effectiveness of ordering policies.

PROJECTS EXPERIENCE

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.

Comparison of choice models

Shanghai, China

Participants

2021.12-2022.12

- There are many customer choice models in the literature, most of which are to study some mathematical properties and prediction power of various customer choice models and their effectiveness in specific situations.

PUBLICATIONS

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.
- 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.

Working Papers

- Li, C., **Peng, Z.** & Rong, Y. (2023). Mostly Beneficial Clustering: Aggregating Data for Operational Decision Making. arXiv preprint arXiv:2311.17326. (R&R in Management Science)
- **Peng, Z.**, Li, C., Rong, Y., Luo, Z., Zhao, M., Ma, G., & Li, Y. (2024). Model Stacking with Flexible Data Aggregation: Inventory Management in Meituan's Flash Sales Mode. (Submitted to SigKDD conference)

CONFERENCE AND TALKS

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), Shengzheng, China, July 29-30, 2023.

Model Stacking with Flexible Data Aggregation: Inventory Management in Meituan's Flash Sales Mode

- 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

- The 14th POMS-HK International Conference, Hongkong, China, January 5-6, 2024.

REWARDS

- 2024 POMS EEDSA Honorable Mention Award for Asia-Pacific Region
- ISCOM 2023 Shanshu Technology Practice-Driven Research Competition Paper 3rd Prize

SKILLS

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