Xu Xin, Daivd

Hong Kong & Shanghai, PR China Ph.D. Student

The Hong Kong Polytechnic University & Tongji University

EDUCATION

•The Hong Kong Polytechnic University (Dual PhD Degree)

Ph.D. Student. Supervisor: Prof. Shuaian (Hans) Wang

•Tongji University

Ph.D. Student. Supervisor: Prof. Xiaoli Wang

2018.09 - 2025.09 (Expected) Shanghai, China

2023.09 - 2025.10 (Expected)

Snangnai, Chi

Dalian Maritime University

 $BMgt\ in\ Logistics\ Management.\ Supervisors:\ Prof.\ Zhongzhen\ Yang,\ Prof.\ Kang\ Chen$

2014.09 - 2018.06

Hong Kong, China

Dalian, China

A Research Interests & Directions

- Port management (e.g., berth allocation, berth allocation and quay crane assignment)
- Shipping management (e.g., liner shipping network design, vessel scheduling)
- Transportation and logistics system optimization (e.g., electric vehicle transportation network design)
- Emergency management, humanitarian logistics (e.g., humanitarian transportation network design)

E SELECTED PUBLICATIONS

- Zhang, T., Wang, S., & Xin, X*. (2025). Liner fleet deployment and slot allocation problem: A distributionally robust optimization model with joint chance constraints. Transportation Research Part B: Methodological, 197, 103236. [HTML]
- Xin, X., Wang, S., & Zhang, T. (2025). Truck-drone supported humanitarian relief logistics network design: A two-stage distributionally robust optimization approach. Transportation Research Part C: Emerging Technologies, 178, 105231. [HTML]
- Xin, X., Wang, X., Ma, L., Chen, K., & Ye, M. (2022). Shipping network design-infrastructure investment joint optimization model: a case study of West Africa. Maritime Policy & Management, 49(5), 620-646. [HTML]
- Xin, X., Zhang, T., Wang, X., He, F., & Wu, L. (2025). Risk averse distributionally robust optimization for construction waste reverse logistics with a joint chance constraint. Computers & Operations Research, 173, 106829. [HTML]
- Xin, X., Jiang, Q., Li, C., Li, S., & Chen, K. (2023). Permutation flow shop energy-efficient scheduling with a position-based learning effect. International Journal of Production Research, 61(2), 382-409. [HTML]
- Xin, X., Wang, X., Chen, Z., & Chen, K. (2021). Coastal shuttle tanker inventory routing model with a discrete loaded quantity. Applied Economics, 53, 6120-6137. [HTML]
- Xin, X., Liu, M., Wang, X., Chen, H., & Chen, K. (2022). Investment strategy for blockchain technology in a shipping supply chain. Ocean & Coastal Management, 226, 106263. [HTML]
- Xin, X., Liu, M., Wang, X., Zhang, T., Gao, L., & Chen, K. (2022). Evolutionary analysis of Japan's nuclear wastewater discharge events considering the impact of participants' emotions. Ocean & Coastal Management, 225, 106231. [HTML]
- Xin, X., Zhang, T., He, F., Zhang, W., & Chen, K. (2023). Assessing and simulating changes in ecosystem service value based on land use/cover change in coastal cities: A case study of Shanghai, China. Ocean & Coastal Management, 239, 106591. [HTML]
- Xin, X., Zhang, T., Xiang, Z., & Liu, M. (2025). Battery electric vehicle transportation network robust pricing-infrastructure location model with boundedly rational travelers. Applied Energy, 386, 125606. [HTML]
- Liu, M., Xin, X.*, Wang, X., Zhang, T., & Chen, K. (2025). Dual-channel slot sales strategy for container liner shipping companies with blockchain technology adoption. Transport Policy, 162, 200-220. [HTML]
- Li, D., Xin, X.*, & Zhou, S. (2023). Integrated governance of the Yangtze River Delta port cluster using niche theory: A case study of Shanghai Port and Ningbo-Zhoushan Port. Ocean & Coastal Management, 234, 106474. (ESI Top 1%) [HTML]
- Xiang, Z., Xin, X.*, Zhang, T., Chen, K., & Liu, M. (2025). Asia–Europe liner shipping network design model considering Arctic route and black carbon tax. Ocean & Coastal Management, 261, 107492. [HTML]
- Gao, S., Xin, X.*, Li, C., Liu, Y., & Chen, K. (2022). Container ocean shipping network design considering carbon tax and choice inertia of cargo owners. Ocean & Coastal Management, 216, 105986. [HTML]
- Chen, K., Guo, J., Xin, X.*, Zhang, T., & Zhang, W. (2023). Port sustainability through integration: A port capacity and profit-sharing joint optimization approach. Ocean & Coastal Management, 245, 106867. [HTML]
- Li, Z., Wang, L., Wang, G., Xin, X.*, Chen, K., & Zhang, T. (2024). Investment and subsidy strategy for low-carbon port operation with blockchain adoption. Ocean & Coastal Management, 248, 106966. [HTML]
- Chen, K., Su, S., Gong, Y., Xin, X.*, & Zeng, Q. (2024). Coastal transportation system green policy design model based on shipping network design. International Journal of Logistics Research and Applications, 27(3), 428-449. [HTML]

- Liu, M., Lai, K.-h., Wong, C. W., Xin, X., & Lun, V. Y. (2024). Smart ports for sustainable shipping: concept and practices revisited through the case study of China's Tianjin port. Maritime Economics & Logistics, 1-46. [HTML]
- Chen, K., Yi, X., Xin, X.*, & Zhang, T. (2023). Liner shipping network design model with carbon tax, seasonal freight rate fluctuations and empty container relocation. Sustainable Horizons, 8, 100073. [HTML]

Воок

• Wang, X., Xin, X, Gao, L., & Shen, S. (2021). Logistics, Transportation, and Distribution Management (Second Edition). Tsinghua University Press. [HTML]

CONFERENCES

- 2020.11.5-7, The 3rd International Conference of the Yangtze-River Research and Innovation Belt (Y-RIB), Ningbo, China. Topic: Intermodal Cargo-Container Joint Flow Equilibrium and Pricing.
- 2024.3.24-28, The 2nd International Symposium on Data-Driven Intelligent Optimization for Decision Making (DIODM 2024), Matsue, Japan. Topic: Port sustainability through integration: A port capacity and profit-sharing joint optimization approach. [HTML]
- 2024.8.29-30, The 2nd PolyU Research Student Conference (PRSC 2024), Hong Kong, China. Topic: Liner shipping fleet planning with uncertain demand: a data-driven distributionally robust chance-constrained optimization approach. Award: Best Presentation Award. [HTML]
- 2025.7.2-4, The 3rd PolyU Research Student Conference (PRSC 2025), Hong Kong, China. Topic: Liner fleet deployment and slot allocation problem: A distributionally robust optimization model with joint chance constraints. Award: Best Paper Merit. [HTML]

* ACADEMIC SERVICES

- Conference Organization: The 3rd PolyU Research Student Conference (PRSC 2025), 2-4 July 2025, Hong Kong. Position: General Co-chair of the Organization Committee.
- Editorship: PLOS ONE (Academic Editor), Frontiers in Marine Science (Guest Editor)
- Ad Hoc Journal Reviewer: Transportation Research Part B: Methodological; Transportation Research Part E: Logistics and Transportation Review; Transport Policy; Maritime Policy & Management; Computers & Operations Research; Maritime Economics & Logistics; International Journal of Shipping and Transport Logistics; Applied Energy; Computers & Industrial Engineering; Research in Transportation Economics; IEEE Transactions on Engineering Management; International Journal of Logistics; Cities; Computers in Industry

6 Honors and Awards

Honors

- 2019.12 National Scholarship
- 2023.12 National Scholarship
- 2024.04 HKSAR Government Scholarship Fund Reaching Out Award [HTML]
- 2024.04 HKSAR Government Scholarship Fund Talent Development Scholarship [HTML]
- 2025.04 HKSAR Government Scholarship Fund Talent Development Scholarship [HTML]
- 2025.05 Outstanding Graduate of Shanghai Universities

Competitions

- 2016.05 Win the National 2nd Prize in the 11th National Competition of Transport Science and Technology for Students (NACTranS) (Instructor: Prof. Zhongzhen Yang)
- 2016.05 Win the National 2nd Prize in the 2nd National Shipping Innovation Competition for College Students (Instructor: Prof. Kang Chen)
- 2019.12 Win the National 2nd Prize in the 16th China Post-Graduate Mathematical Contest in Modeling
- 2020.08 Win the National 2nd Prize in the 13th National College Social Practice and Science Contest on Energy Saving & Emission Reduction
- 2021.10 Win the National 3rd Prize (Bronze Award) in the 7th China College Students' "Internet+" Innovation and Entrepreneurship Competition
- 2022.08 Win the National 1st Prize in the 15th National College Social Practice and Science Contest on Energy Saving & Emission Reduction [HTML]
- 2025.05 Win the National 2nd Prize in the 20th National Competition of Transport Science and Technology for Students (NACTranS) (Instructor: Prof. Shuaian Wang) [HTML]
- 2025.05 Guide students to win the National 1st Prize (Outstanding Instructor Award) in the 15th National Market Research and Analysis Competition [HTML]