

Dr. Yi Xiao

Distinguished Associate Researcher
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BIOGRAPHY NOTES

- Published 12 SSCI/SCI indexed journal papers as the first author and corresponding author, nine in top-tier journals
- Led one project from the National Natural Science Foundation of China
- Focusing on the research of Digital platform mechanism, Smart Shipping, Maritime Safety and Sustainability, Data Property Rights
- Keeping active in international collaborations
- Invited as the reviewers for the international journals, e.g. Maritime Policy & Management, Advances in Mechanical Engineering, Transportation Research Part A, Transportation Research Part E, Marine Policy

EDUCATION

- Ph.D. in International Logistics, Chung-Ang University, Seoul, Korea, Aug. 2019
- M.A. in Regional Economics, Ocean University of China, Qingdao, China, Jun. 2016
- B.S. in Statistics, Hunan Normal University, Changsha, China, Jun. 2012

WORK EXPERIENCE

- 2023/01-now Distinguished Associate Researcher, Zhejiang University
- 2022/01-2022/12 Distinguished Associate Researcher, Sun Yat-sen University
- 2019/11-2020/06 Visiting scholar, University of Cambridge
- 2019/09-2021/12 Postdoctoral researcher, Zhejiang University

PUBLICATIONS

- [1] **Yi Xiao**, Mengjie Jin, Guanqiu Qi, Wenming Shi, Kevin X. Li* & Xianping Du. (2024). Interpreting the influential factors in ship detention using a novel random forest

- algorithm considering dataset imbalance and uncertainty. *Engineering Applications of Artificial Intelligence*, Volume (133), 108369.
- [2] **Yi Xiao**, Kevin X. Li, Guanqiu Qi, & Mengjie Jin*. (2023). Game relations between platform enterprises and participants of digital interaction-sharing platforms in the maritime logistics industry. *Transportation Research Part E: Logistics and Transportation Review*, 178, 103292.
- [3] **Yi Xiao**, Guanqiu Qi, Mengjie Jin, Kum Fai Yuen, Zhuo Chen, & Kevin X. Li*. (2021). Efficiency of Port State Control inspection regimes: A comparative study. *Transport Policy*, 106, 165-172.
- [4] **Yi Xiao**, Grace Wang, Ying-En Ge, Qinyi Xu, & Kevin X. Li*. (2021). Game Model for a New Inspection Regime of Port State Control under Different Reward and Punishment Conditions. *Transportation Research Part E: Logistics and Transportation Review*, volume 156, 102526.
- [5] **Yi Xiao**, Zhuo Chen*, & Levi McNeil. (2021). Digital empowerment for shipping development: a framework for establishing a smart shipping index system. *Maritime Policy & Management*, 1-14.
- [6] **Yi Xiao**, Grace Wang, Kun-chin Lin., Guanqiu Qi, & Kevin X. Li. (2020). The effectiveness of the New Inspection Regime for Port State Control: Application of the Tokyo MoU. *Marine Policy*, 103857.
- [7] Mengjie Jin, Ruyue Gu, Kevin X. Li, Wenming Shi & **Yi Xiao***. (2024). Heterogeneous impacts of the high-speed railway network on urban–rural income disparity: Spatiotemporal evidence from Yangtze River Delta of China. *Transportation research part A: policy and practice*, 183, 104050.
- [8] Kevin X. Li, Xiao Zhang, Kum Fai Yuen, Qinyi Xu, Yuhan Zhu, & **Yi Xiao***. (2023). Who carries the great trade? Logistics links between China and the world. *Maritime Policy & Management*, 1-18.
- [9] Kevin X. Li, Min Wu, Xiaohan Gu, Kum Fai Yuen, & **Yi Xiao***. (2020). Determinants of ship operators' options for compliance with IMO 2020. *Transportation Research Part D: Transport and Environment*, 102459.
- [10] Guanqiu Qi, Wenming Shi, Kun-chin Lin, Kum Fai Yuen, & **Yi Xiao*** (2020). Spatial spillover effects of logistics infrastructure on regional development: Evidence from China. *Transportation Research Part A: Policy and Practice*, 135, 96-114.
- [11] Kevin X. Li, Kun-chin Lin, Mengjie Jin, Kum Fai Yuen, Zhongzhen Yang, & **Yi Xiao***. (2020). Impact of the belt and road initiative on commercial maritime power. *Transportation Research Part A: Policy and Practice*, 135, 160-167.
- [12] Grace Wang, Kevin X. Li, **Yi Xiao***. (2019). Measuring marine environmental efficiency of a cruise shipping company considering corporate social responsibility. *Marine Policy*, 99, 140-147.

- [13] Min Wu, Kevin X. Li, **Yi Xiao**, Kum Fai Yuen*. (2022). Carbon Emission Trading Scheme in the ship** sector: Drivers, challenges, and impacts. *Marine Policy*, 138: 104989.
- [14] Yin, W., Wu, S., Zhao, X., Shu, C., **Yi Xiao**, Ye, G., Shi, W. & Feng, X. (2022). Shore power management for green shipping under international river transportation. *Maritime Policy & Management*, 49(5), 737-754.
- [15] Hengbin Yin, Zhuo Chen, **Yi Xiao**, & Su Wang. (2020). Analysis of risk management performance with innovative approach: a case study of China's shipping companies. *Maritime Policy & Management*, 1-15.
- [16] Mengjie Jin, Wenming Shi, Kum Fai Yuen, **Yi Xiao**, & Kevin X. Li*. (2019). Oil tanker risks on the marine environment: An empirical study and policy implications. *Marine Policy*, 108, 103655.
- [17] Hengbin Yin, Zhuo Chen, **Yi Xiao**. (2019). Risk perception affecting the performance of shipping companies: the moderating effect of China and Korea. *Maritime Policy & Management*, 46(3), 295-308.
- [18] Wenming Shi, **Yi Xiao**, Zhuo Chen, McLaughlin, H., & Kevin X. Li. (2018). Evolution of green shipping research: themes and methods. *Maritime Policy & Management*, 45(7), 863-876.
- [19] Kevin X. Li, **Yi Xiao**, Chen, S. L., Zhang, W., Du, Y., & Shi, W. (2018). Dynamics and interdependencies among different shipping freight markets. *Maritime Policy & Management*, 45(7), 837-849.
- [20] Lili Zhao, **Yi Xiao**, Guilin Dai. (2017). Impact of free trade zone efficacy on selecting benchmark to exploit fishery resources of Shandong Province. *China Population, Resources and Environment*, 27(07):169-176.
- [21] **Yi Xiao**, Shang Chen, Zhiqun Cao et al. (2016). Using the contingent valuation method to assess the value of ecosystem diversity maintenance of Shandong's marine protected areas. *Acta Ecologica Sinica*, 36(11):3321-3328.

COURSES

Maritime Policy & Management; Ocean Management.

RESEARCH PROJECTS

- [1] 2025/01-2027/12 Host the project named “Research on data property rights allocation optimization methods and strategy simulation of maritime trade digital platforms”, which is supported by the National Natural Science Foundation of China (Grant: 72401254).
- [2] 2021/01-2025/12 Join the project named “Research on intelligent operation and optimization of port group”, which is supported by the National Natural Science

Foundation of China (Grant: 72031005).

- [3] 2022/01-2025/12 Join the project named “Research on logistics network optimization and collaborative strategy of bulk commodity river-sea intermodal transportation based on ‘scattered collection’” which is supported by the National Natural Science Foundation of China (Grant: 72171211).
- [4] 2024/08-2024/12 Join the project named “Management diagnosis for Autel”, which is from an enterprise named Autel in Shenzhen.
 - Design questionnaires and conduct interviews;
 - Analyze data and write a diagnostic report.
- [5] 2024/06-2025/02 Join the project named “Zhoushan River-sea Combined Transportation Service Center serves bulk commodity storage and transportation base construction project”, which is from Zhoushan Port Administration.
- [6] 2021/05-2022/11 Join the project named “Research on the security and efficiency of marine trade in the post-epidemic era”, which is supported by Zhejiang University-World Top Universities Cooperation Program Fund.
- [7] 2021/04-2021/06 Host the project, building Logistics Platform for China’s domestic trade for Elane which is a shipping digitization company in Beijing.
 - Analysis the possibility and difficulty in establishing the platform;
 - Design the main functions and confirm the social and economic benefits of the platform.
- [8] 2018/08-2019/08 University of Cambridge/Korea Foundation (RG94770)
 - Wrote research proposal and assisted to apply for the project;
 - Collaborated with Dr. Lin to do research about maritime power and wrote report.
- [9] 2017/08-2018/03 Measuring environmental efficiency of cruise company considering corporate social responsibility, which is supported by both Texas A&M University and Chung-Ang University.
 - Collaborated with Prof. Wang to do research about efficiency evaluation of cruise companies;
 - Wrote academic papers on the research content.
- [10] 2016/08-2017/03 Connectivity and Efficiency of Korean International Logistics System (NRF-2014S1A2027957)
 - Assisted Prof. Li to do research about logistics;
 - Wrote academic report and papers on the research content.

AWARDS AND HONOR

- 2019 "National Outstanding Self-financed International Student Scholarship".
- 2024 “IFSPA Best paper reward”.