

## Professor/Dr. Guanqiong Ye

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### Position

- Professor at the Ocean College of Zhejiang University, China
- Deputy Director of Maritime Logistics and Free Trade Islands Research Center, Zhejiang University, China
- Division Director Assistant of Bilateral Cooperation in the Department of International Cooperation, State Oceanic Administration, P.R. China (Oct. 2016 – Sep. 2017, on secondment)
- Member of GESAMP (Group of Experts on the Scientific Aspects of Marine Environmental Protection) WG41
- Member of PEMSEA (Partnerships in Environmental Management for the Seas of East Asia) PNLC

### Education

- PhD in Biological Sciences (Integrated Coastal Management), National University of Singapore (NUS), Singapore (Jan 2010 - Oct 2014)
- Supervisor: Prof. Chou Loke Ming
- Master in Integrated Coastal Management, Xiamen University, China (Sep 2007 - Dec 2009)
- Supervisor: Prof. Yang Shengyun
- BSc. In Oceanography, Xiamen University, China (First Class, Sep 2003 - June 2007)

### Research Interests

- Integrated Coastal Management
- Marine Spatial Planning
- Coastal Ecosystem Assessment
- Ocean-based Solutions to Climate Change Mitigation

### Course Teaching

- Marine Spatial Planning (Undergraduate & Graduate module)
- Marine Ecological Economics (Graduate module)
- Introduction to Marine Sciences (Undergraduate module)

## Publications

- Liang, S., **Ye, G.\***, & Sun, T. A novel approach to optimize offshore wind farm siting in the eastern China sea. *Ocean and Coastal Management*, 2025, 269, 107854.
- Lin, X., Yang, Y., Wang, X., Lang, C., **Ye, G.\***, & Zeng, J. Spatiotemporal analysis of an estuary 's environmental carrying capacity in Zhejiang, China. *Coastal Management*, 2025, 53(4–5), 338–352.
- Feng, C., Ge, S., Zeng, J., He, L., & **Ye, G.\*** Mapping the global carbon emissions of marine sectors. *Environmental Science & Technology*, 2024, 58(42), 18508 – 18519. <https://doi.org/10.1021/acs.est.4c09209>
- Yuyan Gong; Liuyue He; **Ye, G.\***; Jiangning Zeng ; Climate policy must integrate blue energy with food security, *Nature*, 2024, 625(7994): 241-241
- Zhang, Y., Chen, K., Xu, Z., Fang, K., & **Ye, G.\***. First high-resolution marine natural capital mapping in the coastal waters of Chinese mainland. *Journal of Environmental Management*, 2024, 349, 119596.
- **Ye, G.\***, He, X., Fu, X., & Xue, C. Seaweed sinking has great potential for climate mitigation in China. *Ecological Indicators*, 2024, 167, 112646.
- **Ye, G.\***, Lian, Z., Chen, C., Lin, C., He, Z., Shang, W., & Zheng, Y. The dynamic adjusted system of sea use fees: An empirical research on the sea use management in zhejiang province. *Regional Studies in Marine Science*, 2024, 80, 103910.
- Zhang, Y., Chen, K., Xu, Z., Fang, K., & **Ye, G.\*** First high-resolution marine natural capital mapping in the coastal waters of chinese mainland. *Journal of Environmental Management*, 2024, 349, 119596. <https://doi.org/10.1016/j.jenvman.2023.119596>
- Hua, T. He, L., Jiang, Q., Chou, L., Xu, Z., Yao, Y., & **Ye, G.** Spatio-temporal coupling analysis and tipping points detection of China's coastal integrated land-human activity-ocean system. *Science of The Total Environment*, 2024, 914:1-10.
- Feng, X., Wang, Z., Wang, Y., Yin, W., Chao, Y., & **Ye, G.** Improving resilience in an intermodal transport network via bulk cargo transport coordination and empty container repositioning. *Ocean & Coastal Management*, 2024, 248:1-10.
- Feng, C.#, **Ye, G#\***, Zeng, J., Zeng, J., Jiang, Q., He, L., ... & Xu, Z\*. Sustainably developing global blue carbon for climate change mitigation and economic benefits through international cooperation. *Nature Communications*, 2023, 14(1), 6144. (# co-first)
- Ren, L., Li, F., Chen, B., Chen, Q., **Ye, G.**, & Yang, X. China's Wealth Capital Stock Mapping via Machine Learning Methods. *Remote Sensing*, 2023, 15(3), 689.

- Gong, Y.#, Yang, Y.#, Wang, Z., **Ye, G.\***, Zeng, J., & Hu, W. Siting MPAs for multiple protecting purposes by co-consideration of ecological importance and anthropogenic impacts. *Journal of Environmental Management*, 2023, 337, 117718. (# co-first)
- **Ye, G.\***, Sun, T., Ding, J., Wei, F., Chen, C., & Toh, T. Valuing the Natural Capital of Sea Areas Based on Emergy Analysis. *Journal of Marine Science and Engineering*, 2023, 11(3), 500.
- Wang, Z., He, G., Jiang, X., Wang, K., Gu, Y., & **Ye, G.\***. A new index for assessing the coastal wind disasters based on the HY-2 satellite data. *Journal of Sea Research*, 2023, 193, 102388.
- Hua, T., Ruan, X., Qu, Z., Xue, C., Yang, S., Yao, Y., & **Ye, G.\***. Decades performance of marine science and education by region and discipline in China. *Frontiers in Marine Science*, 2023, 10, 1203161.
- Yue, W., Hou, B., **Ye, G.\***, & Wang, Z. China's land-sea coordination practice in territorial spatial planning. *Ocean & Coastal Management*, 2023, 237, 106545.
- Feng, C., **Ye G.\*** et al. The contribution of ocean-based solutions to carbon reduction in China. *Science of The Total Environment*, 2021, 797(1):149168.
- Jiang, Q., Feng, C., Ding, J., Bartley, E., Lin, Y., Fei, J., ... **Ye G.\*** & Christakos, G\*. (2020). The decade long achievements of China's marine ecological civilization construction (2006–2016). *Journal of Environmental Management*, 272, 111077.
- Jiang, Q., He, J., Wu, J., He, M., Bartley, E., **Ye, G.\***, & Christakos, G\*. (2019). Space-time characterization and risk assessment of nutrient pollutant concentrations in China's near seas. *Journal of Geophysical Research: Oceans*, 124(7), 4449-4463.
- Jiang, Q., He, J., Wu, J., Hu, X., **Ye, G.\***, & Christakos, G\*. (2019). Assessing the severe eutrophication status and spatial trend in the coastal waters of Zhejiang province (China). *Limnology and Oceanography*. 64, 3-17.
- Jiang, Q., He, J., **Ye, G.\***, & Christakos, G\*. (2018). Heavy metal contamination assessment of surface sediments of the East Zhejiang coastal area during 2012–2015. *Ecotoxicology and environmental safety*, 163, 444-455
- Han, Y., Wei, F., **Ye, G.\***, Yang, S., Ma, P., & Hu, W. A study on evaluation the marine carrying capacity in guangxi province, china. *Marine Policy*, 2018, 91, 66–74.
- Ma, P., **Ye, G.\***, Peng, X., Liu, J., Qi, J., & Jia, S., Development of an index system for evaluation of ecological carrying capacity of marine ecosystems, *Ocean & Coastal Management*, 2017, 144, 23-30
- **Ye, G.\***, Jie Liu, Loke M. Chou, Jacob Chee, Chuxin Zang, Designing a Network of Coral Reef Marine Protected Areas in Hainan Island, South China, *COASTAL MANAGEMENT*, 2017, 45, 3, 219-232

- Chen, J., **Ye, G.\***, Jing, C., Wu, J., & Ma, P, Ecological footprint analysis on tourism carrying capacity at the zhoushan archipelago, china, Asia Pacific Journal of Tourism Research, 2017, 22, 10, 1049-1062
- JIANG Qu-tu, HE Jun-yu, WANG Zhan-shan, **Ye, G.\***, CHEN Qian, XIAO Lu. Spatiotemporal analysis of PM2.5 in large coastal domains by combining Land Use Regression and Bayesian Maximum Entropy. Environmental Science, 2017, 37(2): 424~431
- **Ye, G.**, Loke Ming Chou, Shengyun Yang, Jiaping Wu, Pei Liu, Changwei Jin\*, Is integrated coastal management an effective framework for promoting coastal sustainability in China's coastal cities, Marine Policy, 2015, 56: 48-55
- **Ye, G.\***, Loke Ming Chou, Lu Yang, Shengyun Yang, Jianguo Du, Evaluating the performance of Integrated Coastal Management in Quanzhou, Fujian, China, Ocean & Coastal Management, 2014, 96: 112-122
- **Ye, G.\***, Chou, Loke Ming, Hu, Wenjia, The role of an integrated coastal management framework in the long-term restoration of Yundang Lagoon, Xiamen, China, Journal of Environmental Planning and Management, 2014, 57 (11): 1704-1723

## Projects

- Spatiotemporal Early Warning on the Carrying Capacity of a Coastal Ecosystem Based on Its Tipping Points, PI, NSFC Project 42176216 (2022.1 - 2025.12)
- An Emergy-GIS Approach for Marine Natural Capital Assessment, PI, NSFC Youth Project 41606124 (2017.1 - 2019.12)
- Study on KPI of Marine Ecological Civilization in Zhejiang Province, PI, Key Soft Science Project of Science Technology Department of Zhejiang Province SN20170090 (2017 - 2018)
- Study on Bioremediation and Carbon Fixation in Polluted Sea Area, Key Project Team Member, MOST International Cooperation Project 2015DFA01410 (2015 - 2017)

## Awards

- Blue Carbon International Cooperation Pathways - **Adopted by the Ministry of Natural Resources, China**
- Key Technologies for Ecological Protection and Restoration Planning in Nearshore Waters - **First Prize**, National Ocean Engineering Science and Technology Award
- Key Technologies and Application of Remote Sensing Monitoring of Blue Carbon Resources and Effects in Coastal Zone - **Second Prize**, National Science and Technology Progress Award

## Books

- Belgrano, A.. Trans. Jianguo Du, **Guanqiong Ye**, Bin Chen, Qiulin Zhou. (2023). Aquatic food webs: an ecosystem approach. Ocean Press. ISBN978-7-5210-0883-8
- Thomas J. Goreau & Thomas J. GoreauTrans. **Guanqiong Ye**, Jie Lu, Peiliang Li.(2023). Innovative Method of Marine Ecosystem Restoration, Ocean Press. ISBN978-7-5027-1167-8
- Xuehao Feng, **Guanqiong Ye**, Xiao Ruan. (2022). Zhejiang practice of Marine ecological civilization construction. Ocean Press. ISBN978-7-5210-0998-9

## Software Copyright

- **Guanqiong Ye**, Huawei Zhang, Jingang Jiang, Qiankun Liu. The Coastal Ecosystem Service Value Fuzzy Comprehensive Evaluation Software (2017R11L665333, 2017)