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研究方向 中国近海动力学

ResearchGate 个人主页: <https://www.researchgate.net/profile/Xingchuan-Liu>

## 个人简介

主要从事中国近海动力学研究, 关注中国近海水动力环境的多尺度变化, 以数值模拟、现场观测为主要研究手段。阐明了珠江口羽流凸起区的潮致机理, 提出了一种新的河口凸起区形成机制; 指出了夏季黄海三维水温结构对不同路径台风的响应特征和机制, 揭示了台风调制黄海冷水团空间位置的动力学机制, 为陆架海沿岸海洋环境对台风的响应研究提供了新特征、新认识。在 JGR、ECSS 等物理海洋学权威期刊发表论文 7 篇, 其中第一作者论文 3 篇。

## 教育背景

2016.09 - 2022.06	中国海洋大学	应用海洋学	理学博士
2012.09 - 2016.06	中国海洋大学	海洋科学	理学学士

## 工作经历

2022.06 - 至今	中国科学院海洋研究所	特别研究助理
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## 论文著作

- [1] **Liu, X.**, Zhai, F., Yan, J., Gu, Y., Wang, Y., Li, P., & Wu, K. (2022). Three-dimensional temperature responses to northward-moving typhoons in the shallow stratified Yellow Sea in summer. *Journal of Geophysical Research: Oceans*, 127, e2022JC019091. <https://doi.org/10.1029/2022JC019091>
- [2] **Liu, X.**, Gu, Y., Zhai, F., Li, P., Liu, Z., Bai, P., Liu, C., Sun, L., & Wu, K. (2022). Dramatic temperature variations in the Yellow Sea during the passage of typhoon Lekima (2019). *Estuarine, Coastal and Shelf Science*, 269(March), 107819. <https://doi.org/10.1016/j.ecss.2022.107819>

- [3] **Liu, X.**, Gu, Y., Li, P., Liu, Z., Zhai, F., & Wu, K. (2020). A tidally dependent plume bulge at the Pearl River Estuary mouth. *Estuarine, Coastal and Shelf Science*, 243: 106867. <https://doi.org/10.1016/j.ecss.2020.106867>
- [4] Yan, J., Zhai, F., Gu, Y., **Liu, X.**, Li, P., Liu, Z., & Wang, Y. (2023). Drastic fluctuation in water exchange between the Yellow Sea and Bohai Sea caused by Typhoon Lekima in August 2019: A numerical study. *Journal of Geophysical Research: Oceans*, 128, e2022JC019260. <https://doi.org/10.1029/2022JC019260>
- [5] Hu, Y., Yu, F., Chen, Z., Si, G., **Liu, X.**, Nan, F., & Ren, Q. (2023). Two near-inertial peaks in antiphase controlled by stratification and tides in the Yellow Sea. *Frontiers in Marine Science*, 9:1081869. <https://doi.org/10.3389/fmars.2022.1081869>
- [6] Zhai, F., Liu, Z., Li, P., Gu, Y., Sun, L., Hu, L., **Liu, X.**, & Wu, W. (2021). Physical controls of summer variations in bottom layer oxygen concentrations in the coastal hypoxic region off the northeastern Shandong Peninsula in the Yellow Sea. *Journal of Geophysical Research: Oceans*, 126, e2021JC017299. <https://doi.org/10.1029/2021JC017299>
- [7] Chen, Y., Zhai, F., Gu, Y., Cao, J., Liu, C., **Liu, X.**, Liu, Z., & Li, P. (2021). Seasonal variability in dissolved oxygen in the Bohai Sea, China. *Journal of Oceanology and Limnology*, 40, 78–92. <https://doi.org/10.1007/s00343-021-0235-6>

## 项目课题

1. 青岛市博士后应用研究项目，“黄海三维温度结构对台风的响应研究”，2022-2024，**主持**