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海洋环流与波动实验室

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研究方向 海洋动力学及其环境效应

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个人简介

博士, 研究员, 博士生导师, 享受国务院政府特殊津贴专家, 中科院大学聘任教授。现任中国海洋湖沼学会理事, 农业部海洋牧场专家咨询委员会委员, 《海洋与湖沼》副主编、《海洋学报》中英文、《中国海洋大学学报》、《海洋通报》、《海洋科学》编委。多次赴美国、加拿大等做访问科学家。

主持国家科技部基础工作专项、973 课题、科学院先导专项 A、B 课题、国家杰出青年基金 B 等国家项目课题近 50 余项; 发表论文 250 余篇, 包括 JPO、GRL、JGR 等国际一流学术期刊 SCI 论文 150 余篇, 获省部级奖 5 项, 编著 3 部。长期从事海洋动力过程及其环境效应、海洋灾害预报技术与评估、海洋环境数值模拟研究。在黑潮入侵东海理论机制及其生态效应、内波动力学及其混合作用、海洋-气象灾害与气候变化、人工智能海洋学应用领域发表多篇有影响的论文, 引起国内外同行高度关注和引用; 在风暴潮、海浪以及耦合模式发展与模拟预报、长期演化及风险评估等领域, 取得了一些重要成果, 为国家业务化部门所使用。

教育背景

1990.09 - 1996.12	中科院海洋所	物理海洋学	理学博士
1984.09 - 1987.06	中国海洋大学	海洋系	理学硕士
1980.09 - 1984.06	山东大学	数学系	理学学士

工作经历

2000.05 - 至今	中国科学院海洋研究所	研究员
2002.03 - 2002.09	加拿大 Bedford 海洋研究所	访问科学家
1994.09 - 2000.04	中国科学院海洋研究所	副研究员
1999.07 - 2000.01	美国缅因大学	访问科学家

1993.09 - 1994.08	加拿大魁北克大学 Rimouski 分校	访问学者
1987.07 - 1994.08	中国科学院海洋研究所	助理研究员

招生专业及方向

物理海洋学，海洋环流与气候环境效应，海洋波动与环境预测

论文著作

- [1] Li Delei, Chen Yang, Qi Jifeng, Zhu Yuchao, Lu Chunhui, **Yin Baoshu***. (2023). Attribution of the July 2021 Record-breaking Northwest Pacific Marine Heatwave to Global warming, Atmospheric Circulations and ENSO. Bulletin of the American Meteorological Society, 104(1), E291-E297.
- [2] Jifeng Qi, Bowen Xie, Delei Li, Jianwei Chi, **Baoshu Yin***, Guimin Sun. (2023). Estimating thermohaline structures in the tropical Indian Ocean from surface parameters using an improved CNN model. Frontier in Marine Sciences, 10: 1181182.
- [3] Qi, Jifeng, Du, Yan, Chi, Jianwei, Yi, Daling Li, Li, Delei, & **Yin, Baoshu***. (2022). Impacts of El Nino on the South China Sea surface salinity as seen from satellites. ENVIRONMENTAL RESEARCH LETTERS, 17(5), 9.
- [4] Gao, Guandong, Yang, Dezhou, Xu, Lingjing, Zhang, Kun, Feng, Xingru, & **Yin, Baoshu***. (2022). A Biological-Parameter-Optimized Modeling Study of Physical Drivers Controlling Seasonal Chlorophyll Blooms off the Southern Coast of Java Island. JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS, 127(11), 23.
- [5] Li, Delei., Feng, Jianlong., Zhu, Yuchao., Staneva, Joanna., Qi, Jifeng.,...& **Yin, Baoshu***. (2022). Dynamical Projections of the Mean and Extreme Wave Climate in the Bohai Sea, Yellow Sea and East China Sea. FRONTIERS IN MARINE SCIENCE, 9, 16.
- [6] Qi, Jifeng, Liu, Chuanyu, Chi, Jianwei, Li, Delei, Gao, Le, & **Yin, Baoshu***. (2022). An Ensemble-Based Machine Learning Model for Estimation of Subsurface Thermal Structure in the South China Sea. REMOTE SENSING, 14, 13.
- [7] Wang, Junyan., Mo, Dongxue., Hou, Yijun., Li, Shuiqing., Li, Jian., ...& **Yin, Baoshu***. (2022). The Impact of Typhoon Intensity on Wave Height and Storm Surge in the Northern East China Sea: A Comparative Case Study of Typhoon Muifa and Typhoon Lekima. JOURNAL OF MARINE SCIENCE AND ENGINEERING, 10(2), 26.
- [8] Li, Zhao, Li, Shuiqing, Hou, Yijun, Mo, Dongxue, Li, Jian, & **Yin, Baoshu***. (2022). Typhoon-induced wind waves in the northern East China Sea during two typhoon events: the impact of wind field and wave-current interaction. JOURNAL OF OCEANOLOGY AND LIMNOLOGY, 16.

- [9] Li, Delei, Chen, Yang, Messmer, Martina, Zhu, Yuchao, Feng, Jianlong, **Yin, Baoshu*** & Bevacqua, Emanuele. (2022). Compound Wind and Precipitation Extremes Across the Indo-Pacific: Climatology, Variability, and Drivers, *GEOPHYSICAL RESEARCH LETTERS*, 49, 14.
- [10] Li, Zhao., Li, Shuiqing., Hu, Po., Mo, Dongxue., Li, Jian., ...& **Yin, Baoshu***. (2022). Numerical study of storm surge-induced coastal inundation in Laizhou Bay, China. *FRONTIERS IN MARINE SCIENCE*, 9, 14.
- [11] Feng, Xingru., Li, Mingjie., Li, Yuanlong., Yu, Fujiang., Yang, Dezhou., ...& **Yin, Baoshu***. (2021). Typhoon storm surge in the southeast Chinese mainland modulated by ENSO. *SCIENTIFIC REPORTS*, 11(1), 11.
- [12] Xu, Lingjing., Yang, Dezhou., Yu, Rencheng., Feng, Xingru., Gao, Guandong., ...& **Yin, Baoshu***. (2021). Nonlocal Population Sources Triggering Dinoflagellate Blooms in the Changjiang Estuary and Adjacent Seas: A Modeling Study. *JOURNAL OF GEOPHYSICAL RESEARCH-BIOGEOSCIENCES*, 126(11), 19.
- [13] Cui, Xuan., Yang, Dezhou., Sun, Chaojiao., Feng, Xingru., Gao, Guandong., ...& **Yin, Baoshu***. (2021). New Insight Into the Onshore Intrusion of the Kuroshio Into the East China Sea. *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*, 126(2), 19.
- [14] Li, Delei, Staneva, Joanna, Bidlot, Jean-Raymond, Grayek, Sebastian, Zhu, Yuchao, & **Yin, Baoshu***. (2021). Improving Regional Model Skills During Typhoon Events: A Case Study for Super Typhoon Lingling Over the Northwest Pacific Ocean. *FRONTIERS IN MARINE SCIENCE*, 8, 22.
- [15] Wang, Yang, Xu, Zhenhua, Hibiya, Toshiyuki, **Yin, Baoshu***, & Wang, Fan. (2021). Radiation Path of Diurnal Internal Tides in the Northwestern Pacific Controlled by Refraction and Interference. *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*, 126(11), 28.
- [16] Li, Delei, Staneva, Joanna, Grayek, Sebastian, Behrens, Arno, Feng, Jianlong, & **Yin, Baoshu***. (2020). Skill Assessment of an Atmosphere-Wave Regional Coupled Model over the East China Sea with a Focus on Typhoons. *ATMOSPHERE*, 11(3), 25.
- [17] Yang, Dezhou, Huang, Rui Xin, Feng, Xingru, Qi, Jifeng, Gao, Guandong, & **Yin, Baoshu***. (2020). Wind stress over the Pacific Ocean east of Japan drives the shelf circulation east of China. *CONTINENTAL SHELF RESEARCH*, 201, 8.
- [18] Qi, Jifeng, Qu, Tangdong, **Yin, Baoshu*** & Chi, Jianwei. (2020). Variability of the south pacific western subtropical mode water and its relationship with enso during the argo period. *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*, 125, 8.
- [19] Xu, Lingjing., Yang, Dezhou., Greenwood, Jim., Feng, Xingru., Gao, Guandong., ...& **Yin, Baoshu***. (2020). Riverine and Oceanic Nutrients Govern Different Algal Bloom Domain Near the Changjiang Estuary in Summer. *JOURNAL OF GEOPHYSICAL RESEARCH-BIOGEOSCIENCES*, 125(10), 26.

- [20] Li, Delei, Feng, Jianlong, Dosio, Alessandro, Qi, Jifeng, Xu, Zhenhua, & **Yin, Baoshu***. (2020). Historical Evaluation and Future Projections of 100-m Wind Energy Potentials Over CORDEX-East Asia. JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES, 125(15), 18.
- [21] Gao, Guandong, Marin, Maxime, Feng, Ming, **Yin, Baoshu***, Yang, Dezhou, Feng, Xingru, Ding, Yang, & Song, Dehai. (2020). Drivers of marine heatwaves in the east china sea and the south yellow sea in three consecutive summers during 2016–2018. JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS, 125, 8.

项目课题

1. 高分辨率海洋模式关键物理过程参数化方案的研发:研发海洋内部及过渡区关键物理过程的参数化方案, 参与, 国家任务, 2017-07--2022-06
2. 山东省滨海沙滩防护工程环境灾害及防灾减灾对策, 参与, 国家任务, 2019-01--2022-12
3. 印太交汇区高分辨率物理生态耦合模式, 负责人, 中国科学院计划, 2020-01--2024-12
4. 台湾东北部黑潮深层逆流形成的动力机制及其对黑潮入侵东海的影响研究, 负责人, 国家任务, 2021-01--2024-12

学术兼职

2022.01 - 2023.12	Coastal Ocean Processes, Frontier in Marine Sciences, Associate Editor
2021.01 - 2026.12	海洋通报, 编委
2020.01 - 2025.12	海洋与湖沼, 副主编
2019.01 - 2024.12	中国海洋大学学报, 编委
2017.01 - 2022.12	农业部海洋牧场建设专家咨询委员会专家, 委员
2016.09 - 2022.12	海洋学报, 编委
2016.09 - 2022.12	Acta Oceanologica Sinica, 编委
2012.10 - 2022.12	中国海洋与湖沼学会, 理事
2012.01 - 2025.12	青岛市人民政府应急管理专家委员会, 委员
2006.08 - 至今	国家科学技术奖评审专家
2004.06 - 至今	《海洋科学》编委

荣誉奖励

2014	中国电力科学技术进步奖, 三等奖, 部委级
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2013	海洋工程科学技术奖, 一等奖, 部委级
2010	长江口海域富营养化特点、形成机制及对策研究, 二等奖, 部委级
2008	辽东湾海域环境容量测算及总量控制研究, 三等奖, 省级
2003	非线性海洋波动及其应用, 二等奖, 部委级

承担课程

研究生课程：海洋陆架环流与环境；黑潮入侵东海途径、变化及其机制；海洋环流动力学前沿讲座、海洋动力学前沿讲座