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研究方向 西太平洋环流动力学

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## 个人简介

主要从事太平洋海洋环流与水团的观测研究工作, 在西太平洋主流系结构及其季节内变异规律、副热带环流与高盐水的低频变异研究方面有创新性成果, 在 JPO, JGR, GRL 等期刊发表论文 50 余篇。主持国家自然科学基金、国家重点研发计划课题、中科院战略先导专项项目等重要课题。8 次担任首席科学家/队长组织实施西太平洋科学考察, 率队完成我国在西太平洋第一套 6000 米深海潜标的设计与观测任务, 在西太平洋深海潜标观测网的成功构建中做出突出贡献。2017 年获“中国科学院杰出科技成就奖”, 2019 年获“海洋工程科学技术一等奖”, 2022 年获“海洋科学技术特等奖”、“山东省自然科学一等奖”。积极开展国际交流, 与美国、日本、澳大利亚、菲律宾等国科学家保持密切合作。

## 教育背景

2006.09 - 2009.07	中国科学院海洋研究所	物理海洋学	理学博士
2003.09 - 2006.07	中国海洋大学	计算数学	理学硕士
1999.09 - 2003.07	中国海洋大学	信息与计算科学	理学学士

## 工作经历

2021.07 - 至今	中国科学院海洋研究所	研究员, 实验室副主任
2017.12 - 至今	中国科学院海洋研究所	研究员
2013.04 - 2015.03	美国夏威夷大学	访问学者/博士后
2013.01 - 2017.12	中国科学院海洋研究所	副研究员
2009.07 - 2012.12	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 (物理海洋/数学/物理等相关专业背景)

博士招生: 海洋环流与气候环境变化

硕士招生: 海洋环流与气候环境效应 / 环境工程

## 论文著作

- 1 Huang J., **L. Zhang\***, S. Zhu, J. Wu, X. Yan, W. Song, and S. Yang, 2023, The reliable sampling interval for monitoring interannual variability of the Kuroshio transport at 18°N, *J. Sea Res.*, 193, 102374, doi:<https://doi.org/10.1016/j.seares.2023.102374>.
- 2 Wu J., **L. Zhang\***, F. Wang, C. Kaluwin, and D. Hu, 2022, Currents off the Papua New Guinea coast during and after the El Niño of 2015-2016, *J. Geophys. Res.*, DOI:10.1029/2022JC018760.
- 3 Song W., **L. Zhang\***, and D. Hu, 2022, Observed subsurface lens-like features east of the Philippines, *Deep Sea Res.*, 190, 103901, doi: <https://doi.org/10.1016/j.dsr.2022.103901>.
- 4 Sun J., **L. Zhang\***, and D. Hu, 2022, Decadal and Long-term Variability of Sea Level in the Southwestern Pacific during 1948-2018. *Geophys. Res. Lett.*, 49, e2022GL098747. <https://doi.org/10.1029/2022GL098747>
- 5 Hui Y., **L. Zhang\***, Z. Wang, F. Wang, and D. Hu, 2022, Interannual modulation of subthermocline eddy kinetic energy east of the Philippines. *J. Geophys. Res.*, 127, e2022JC018452, doi: <https://doi.org/10.1029/2022JC018452>
- 6 Wang Z., **L. Zhang\***, Y. Hui, F. Wang, and D. Hu, 2022, Two Flavors of Intraseasonal Variability and their Dynamics in the North Equatorial Current/Undercurrent Region, *Front. Mar. Sci.*, 9:845575, doi: 10.3389/fmars.2022.845575. <https://doi.org/10.3389/fmars.2022.845575>
- 7 Huang Y., **L. Zhang\***, F.J. Wang, F. Wang, and D. Hu, 2022, Interannual variations of the North Equatorial Current/Undercurrent from mooring array observations. *Front. Mar. Sci.*, 9:979442. doi: 10.3389/fmars.2022.979442
- 8 Yuan Shenming, Yan Xiaomei\*, **Zhang Linlin\***, Yang Bing, Pang Chongguang, and Hu Dunxin, 2022, Observed near-inertial waves east of the Philippines, *Journal of Oceanology and Limnology*
- 9 **Zhang L.\***, Y. Hui, T. Qu, and D. Hu, 2021, Seasonal variability of subthermocline eddy kinetic energy east of the Philippines, *J. Phys. Oceanogr.*, 51, 3, 685-699, <https://doi.org/10.1175/JPO-D-20-0101.1>.
- 10 **Zhang L.\***, J. Wu, F. Wang, S. Hu, Q. Wang, F. Jia, F. Wang, and D. Hu, 2020, Seasonal and interannual variability of the currents off the New Guinea coast from mooring measurements, *J. Geophys. Res.*, 125, 12, e2020JC016242. Doi:10.1029/2020JC016242.

- 11 Hu D., **F. Wang\***, J. Sprintall, L. Wu, S. Riser, S. Cravatte, A. Gordon, **L. Zhang\***, D. Chen, H. Zhou, K. Ando, J. Wang, J. Lee, S. Hu, J. Wang, D. Zhang, J. Feng, L. Liu, C. Villanoy, C. Kaluwin, T. Qu, Y. Ma, 2020, Review on observational studies of western tropical Pacific Ocean circulation and
- 12 Hui Y., **L. Zhang\***, F. Wang, X. Yan, 2020, Revisit of seasonal variability of subsurface temperature in the tropical Pacific with Argo data, *J. Mar. Sys.* 204, 103312, doi:10.1016/j.jmarsys.2020.103312.
- 13 Qi J., **L. Zhang\***, T. Qu, B. Yin\*, Z. Xu, D. Yang, D. Li, Y. Qin, 2019, Salinity variability in the tropical Pacific during the Central-Pacific and Eastern-Pacific El Niño events, *J. Mar. Sys.* 199, 103225.
- 14 **Zhang L.\***, F. Wang, Q. Wang, S. Hu, F. Wang, **D. Hu\***, 2017, Structure and Variability of the North Equatorial Current/Undercurrent from Mooring Measurements in the Western Pacific, *Scientific Reports*, 7:46310, doi: 10.1038/srep46310.
- 15 Wang F., **L. Zhang\***, D. Hu, Q. Wang, F. Zhai, S. Hu, 2017, The vertical structure and variability of the western boundary currents east of the Philippines from direct observations, *J. Oceanogr.*, 73:743–758, doi: 10.1007/s10872-017-0429-x.
- 16 **Zhang L.**, X. Yan, C. Sun, D. Hu, 2016, Variability of Antarctic Intermediate Water South of Australia and Its Relationship with Frontal Wave, *Science China Earth Science*, 59, 1674-1682, doi: 10.1007/s11430-015-0179-5.
- 17 **Zhang L.**, and T. Qu, 2015, Low frequency variability of the South Pacific Subtropical Gyre as seen from satellite altimetry and Argo, *J. Phys. Oceanogr.*, 45(12), 3083-3098, doi: <http://dx.doi.org/10.1175/JPO-D-15-0026.1>.
- 18 **Zhang L.**, D. Hu, S. Hu, F. Wang, F. Wang, and D. Yuan, 2014, Mindanao Current/Undercurrent measured by a subsurface mooring, *J. Geophys. Res.*, 119, 3617–3628, doi: 10.1002/2013JC009693.
- 19 **Zhang L.**, and T. Qu, 2014, Low frequency variability of South Pacific Tropical Water from Argo, *Geophys. Res. Lett.*, 41 (7), 2441-2446, doi:10.1002/2014GL059490.
- 20 **Zhang L.**, C. Sun, 2012, A geostrophic empirical mode based on altimetric sea surface height, *Science China Earth Science*, 55(7), 1193-1205, doi:10.1007/s11430-011-4293-z.
- 21 **Zhang L.**, C. Sun, Hu D., 2012, Interannual variability of the Antarctic Circumpolar Current strength based on merged altimeter data, *Chinese Science Bulletin*, 57(16), 2012-2021, doi:10.1007/s11434-012-5040-3.
- 22 **Zhang L.**, C. Sun, Hu D., 2012, Relationship between oceanic heat content and sea surface height on interannual time scale, *Chinese Journal of Oceanology and Limnology*, 30(6), 1094-1100.
- 23 Qu T., **L. Zhang**, and N. Schneider, 2016, North Atlantic Subtropical Underwater and its year-to-year variability during the Argo period, *J. Phys. Oceanogr.*, 46, 1901-1916, doi:10.1175/JPO-D-15-0246.1.

- 24 Sun C., **L. Zhang**, Yan X., 2011, Stream-coordinate structure of oceanic jets based on merged altimeter data, *Chinese Journal of Oceanology and Limnology*, 29, 1-9

## 项目课题

- 1 国家自然科学基金（优青），西太平洋海洋环流动力学，2022/01-2024/12，主持，在研；
- 2 国家自然科学基金，共享航次计划 2022 年度西太平洋科学考察实验研究，2023/01-2024/12，首席科学家，在研；
- 3 国家重点研发计划课题，西太平洋海洋环流多尺度变异机制及其受全球变化的影响，2020/12-2025/11，主持，在研；
- 4 中科院战略先导专项，印尼贯穿流源区环流多尺度变异及其对物质能量循环的影响，2020/01-2024/12，主持，在研；
- 5 崂山实验室科技创新项目，“两洋一海”常态化船载观测断面建设项目，2022/10-2025/09，主持，在研；

## 学术兼职

- 2022.04 - 至今      Journal of Sea Research 客座主编
- 2023.05 - 至今      IOC/WESTPAC/CSK2 “黑潮源区次表层涡旋与海流” 研究计划联合主席

## 荣誉奖励

- 2022      海洋科学技术特等奖、山东省自然科学一等奖
- 2019      海洋工程科学技术一等奖
- 2017      中国科学院杰出科技成就奖