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研究方向 海洋热力学过程、海气相互作用、气候变化

ResearchGate 个人主页: <https://www.researchgate.net/profile/Yuanlong-Li-2>

### 个人简介

现任中国科学院海洋研究所研究员, 博士生导师。专业为物理海洋学。2012年获中国科学院海洋研究所物理海洋学博士学位; 在 JPO、JC、GRL、JGR 等物理海洋学权威期刊共发表论文 90 多篇, 其中第一/通讯作者论文 40 多篇, 累计引用 2000 多次; 先后主持了 NASA 海洋盐度卫星科学项目、科技部重点研发专项课题、国家自然科学基金面上项目和青年项目、山东省杰出青年基金项目、崂山实验室科技创新项目课题等; 获得了山东省自然科学一等奖(排名第二)和中国科学院杰出科技成就奖(排名第九); 入选国家高层次海外人才引进计划; 指导多名博士研究生获得国家奖学金和山东省优秀博士论文; 担任国际知名专业期刊《JGR-Oceans》编委。

一直从事印度洋热力学过程研究, 近年来主要创新性成果包括: 1) 揭示印度洋增暖趋势的时空特征与成因, 探明印尼贯穿流在海温年代际变率中的关键作用; 2) 发现东南印度洋年代际热量集聚现象, 揭示其“波动-海气-涡旋”三重物理机制; 3) 指明海洋温盐层结对南亚季风季节内振荡(MISO)的重要影响, 提出热力学过程主导的 MISO 海-气耦合振荡机制。

### 教育背景

2007.09 - 2012.07	中国科学院海洋研究所	物理海洋学	理学博士
2001.09 - 2005.07	中国海洋大学	海洋科学	理学学士

### 工作经历

2017.10 - 至今	中国科学院海洋研究所	研究员
2012.10 - 2017.09	美国科罗拉多大学	博士后科研助理

## 招生专业及方向

物理海洋学 (海洋科学/大气科学/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

## 主要论文著作

- Wang, F.\*, Li, X., Tang, X., Sun, X., Zhang, J., Yang, D., Xu, L., Zhang, H., Wang, Y., Yao, Y., Wang, C., Guo, Y., Ren, Q., **Li, Y.\***, Zhang, R., Wang, X., Zhang, B., Sha, Z., 2023, The seas around China in a warming climate, *Nature Review Earth & Environment*, in press.
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- **Li, Y.\***, Guo, Y., Zhu, Y., Kido, S., Zhang, L., & Wang, F., 2022: Variability of Heat Content and Eddy Kinetic Energy in the Southeast Indian Ocean: Roles of the Indonesian Throughflow and Local Wind Forcing. *Journal of Physical Oceanography*, **52**(11), 2789-2806. <https://doi.org/10.1175/JPO-D-22-0051.1>
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- Liu, L.-L., **Li, Y.\***, & Wang, F. 2022: Reduction of Equatorial Obduction by Atmospheric Intraseasonal Oscillations in the Western and Central Pacific Ocean, *Journal of Geophysical Research Oceans*, **127**, e2021JC017901, <https://doi.org/10.1029/2021JC017901>
- Lv, M., Wang, F.\*, **Li, Y.\***, Zhang, Z., & Zhu, Y., 2022: Structure of Sea Surface Temperature Anomaly Induced by Mesoscale Eddies in the North Pacific Ocean, *Journal of Geophysical Research Oceans*, **127**, e2021JC017581, <https://doi.org/10.1029/2021JC017581>
- Song, L., Wang, F., Li, Y., & Lee, J.-Y. (2022). Intraseasonal variability of surface circulation in the Indo-Pacific warm pool induced by summer monsoon intraseasonal oscillations. *Journal of Geophysical Research: Oceans*, **127**, e2022JC018843. <https://doi.org/10.1029/2022JC018843>
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- causes. *Journal of Geophysical Research: Oceans*, 122(5), 4291-4311.
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  - **Li, Y.\***, Han, W., & Lee, T. (2015). Intraseasonal sea surface salinity variability in the equatorial Indo-Pacific Ocean induced by Madden-Julian oscillations. *Journal of Geophysical Research: Oceans*, 120(3), 2233-2258.
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  - **Li, Y.**, & Wang, F. (2013). Thermohaline intrusions in the thermocline of the western tropical Pacific Ocean. *Acta Oceanologica Sinica*, 32(7), 47-56.
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## 主要项目课题

1. 科技部重点研发计划专项课题：三大洋相互作用“海洋通道”过程机制，2019-2024，主持
2. 山东省杰出青年基金项目：印度洋温盐变化，2021-2023，主持
3. 中国科学院战略性先导科技专项子课题：东印度洋与印尼海物质能量交换过程，2019-2024，主持
4. 崂山实验室科技创新项目课题：海-气系统年代际变化规律与机理，2023-2025，主持
5. 自然科学基金面上项目：东南印度洋海温长期变化及其对海洋热浪事件的影响，2018-2021，主持

## 学术兼职

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| 2023 - 至今 | <i>Journal of Geophysical Research Oceans</i> 编委 |
| 2022 - 至今 | 中国海洋湖沼学会海洋与气候分会 理事                               |
| 2021 - 至今 | 中国海洋学会海气相互作用委员会 委员                               |