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研究方向：海洋动力环境数值模拟；极端动力推算；海洋可再生能源利用；波浪与海冰相互作用；海洋大数据与人工智能

招生专业：港口航道与海岸工程、水利工程、数学、计算机等相关专业（欢迎感兴趣的同学发邮件交流）

学习经历

- 2017.09-2021.06，中国海洋大学，港口、海岸及近海工程，博士
- 2014.09-2017.06，中国海洋大学，水利工程，硕士
- 2010.09-2014.06，中国海洋大学，港口航道与海岸工程，学士

工作经历

- 2025.03 至今，青岛理工大学土木工程学院，副教授
- 2021.10-2025.02，中国海洋大学，博士后

科研项目

- 2025.01-2027.12，国家自然科学基金青年科学基金项目，“北极冬春季涌浪对固定冰断裂的作用机理研究”，主持。
- 2023.07-2025.01，中国博士后科学基金面上项目，“北冰洋涌浪的传播特征与能量变化机理研究”，主持。
- 2022.11-2025.01，山东省科技厅，山东省博士后创新专项，主持。

学术成果

代表性论文：

[1] Li JQ, **Gao HJ***, Liang BC, Shao ZX. Study on the bivariate distribution characteristics of extreme wave height and wave direction under different weather systems[J]. Physics of Fluids, 2025, 37(8).

[2] **Gao HJ**, Liang BC, Yang HB, Shao ZX. Analysis of wave characteristics in the North Pacific Ocean based on the fusion of multi-source satellite altimetry[J]. Physics of Fluids, 2024, 36(8).

[3] Meng Y, Liang BC, **Gao HJ***, Shao ZX. Analysis and extreme event prediction of waves in the eastern shelf seas of China based on a 44-year hindcast[J]. Ocean Engineering, 2024, 312: 119102.

[4] Yang HB, Liang BC, **Gao HJ***, Shao ZX. High-resolution mapping of significant wave heights in the Northeast Pacific and Northwest Atlantic using improved multi-source satellite altimetry fusion method[J]. Frontiers in Marine Science, 2024, 11: 1458892.

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[6] Shao ZX, **Gao HJ***, Liang BC, Lee DY. Potential, trend and economic assessments of global wave power[J]. Renewable Energy, 2022, 195: 1087-1102.

[7] **Gao HJ**, Shao ZX, Liang BC, Lee DY. Global extreme significant wave height within the dominant directional sector[J]. Ocean Engineering, 2022, 244: 110407.

[8] **Gao HJ**, Liang BC, Shao ZX. A global climate analysis of wave parameters with a focus on wave period from 1979 to 2018[J]. Applied Ocean Research, 2021, 111: 102652.

[9] **Gao HJ**, Shao ZX, Wu GX, Li P. Study of directional declustering for estimating extreme wave heights in the Yellow Sea[J]. Journal of Marine Science and Engineering, 2020, 8(4): 236.

[10] Liang BC, **Gao HJ**, Shao ZX. Characteristics of global waves based on the third-generation wave model SWAN[J]. Marine Structures, 2019, 64: 35-53.