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| **Zhou Liang** |  | |
| PhD candidate |  | |
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| Personal website: <https://zliangocean.com> | |  |

**Education**

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| 2020 – current | **Ph.D.** in chemical oceanography at Florida State University, Tallahassee, FL. Advisor: Dr. Angela Knapp |
| 2018 – 2020 | **M.S.** in chemical oceanography at Florida State University, Tallahassee, FL. Advisor: Dr. Angela Knapp |
| 2014 – 2018 | **B.S.** in chemistry w/ marine concentration at Ocean University of China, Qingdao, China |

**Professional Experience**

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| 2020 – current | **Graduate Teaching Assistant.** Dept. of Earth, Ocean, and Atmospheric Science Florida State University, Tallahassee, FL. |
| 2018 - current | **Graduate Research Assistant.** Dept. of Earth, Ocean, and Atmospheric Science Florida State University, Tallahassee, FL, Dr. Angela Knapp lab collaborated with Dr. Robert Letscher in the University of New Hampshire.  Project: Dissolved organic phosphorus controls on marine nitrogen fixation and export production |
| 2017 - 2018 | **Undergraduate Research Assistant.** Ocean University of China, Qingdao, China. Dr. Yu Xin lab  Project: Solid phase extraction of marine dissolved organic nitrogen |
| 2017 summer | **Laboratory Technician.** Ocean University of China, Qingdao, China. Dr. Guilin Zhang lab  Project: Measurements of methane in the ocean and Huanghe River |

**Research Interests**

Nitrogen and phosphorus cycling in the ocean; inorganic and organic nutrient cycling in the ocean; dissolved organic nitrogen isotopic compositions; dissolved organic phosphorus concentration; Ocean biogeochemical modeling; marine data science.

**Publications**

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| **2023** | **Liang, Z.**, Letscher, R.T., and Knapp, A. N., Global patterns of surface ocean dissolved organic matter stoichiometry. (**under review**) |
| **2022** | **Liang, Z.**, McCabe, K., Fawcett, S.E., Forrer, H.J., Jeandel, C., Marconi, D., Planquette, H., Saito, M.A., Sohm, J.A., Thomas, R.K., Letscher, R.T., and Knapp, A. N., A global ocean dissolved organic phosphorus (DOP) concentration database (DOPv2021), Scientific Data, 9, 722, <https://doi.org/10.1038/s41597-022-01873-7> |
| **2022** | **Liang, Z.**, Letscher, R.T., and Knapp, A. N., Dissolved organic phosphorus concentrations in the surface ocean controlled by both phosphate and iron stress; Nature Geosciences, 15(8), 651-657, <https://doi.org/10.1038/s41561-022-00988-1>. |
| **2022** | Letscher, R.T., Wang, W.-L., **Liang, Z.**, and Knapp, A.N., Regionally variable contribution of dissolved organic phosphorus to marine annual net community production, Global Biogeochemical Cycles, 36, e2022GB007354. <https://doi.org/10.1029/2022GB007354> |
| **2021** | Knapp, A. N., Letscher, R. T., **Liang, Z.,** DOP concentration observations from the global ocean between 1990 and 2021 (DOP N2 fixation and export production project). Biological and Chemical Oceanography Data Management Office (BCO-DMO) (2022). <https://doi.org/10.26008/1912/bco-dmo.855139.3> |
| **2021** | Yan, Z., Yang, N., **Liang, Z.**, Yan, M., Zhong, X., Zhang, Y., Xu, W. and Xin, Y., Active dissolved organic nitrogen cycling hidden in large river and environmental implications. Science of The Total Environment, 795, 148882 (2021). <https://doi.org/10.1016/j.scitotenv.2021.148882> |
| **2020** | **Liang, Z.**, Pan, Y., Zhu, S., Luo, C., Tan., L., Spatiotemporal distribution and influencing factors of total suspended particles in the Yangtze River Estuary adjacent sea area[J].Journal of Xiamen University(Natural Science),2020,59(S1):50-55.<https://doi.org/10.6043/j.issn.0438-0479.202007117>(in Chinese) |
| **2020** | **Liang, Z.**, Pan, Y., Zhang, J., Dong, H., Tan., L., Data analysis of marine variables in the Yangtze River Estuary adjacent sea area in summer of 2016[J].Journal of Xiamen University(Natural Science),2020,59(S1):69-74.<https://doi.org/10.6043/j.issn.0438-0479.202007115> (in Chinese) |
| **2020** | Pan, Y., **Liang, Z.**, Wang, H., Wan, L., Tan, L., Ge, T., The distribution and influence factors of COD in the Yangtze River Estuary adjacent sea area[J].Journal of Xiamen University(Natural Science),2020,59(S1):63-68.<https://doi.org/10.6043/j.issn.0438-0479.202007116> (in Chinese) |

**Field Work**

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| **2019** | Cruise in the Gulf of Mexico, studying carbon, nitrogen, and iron cycling. 4 days, Vessel: R/V Weatherbird |
| **2018** | Cruise in the Jiaozhou Bay and Yellow Sea, 14 days, Vessel: R/V dongfanghong 2 |
| **2016** | Cruise in Changjiang Estuary and coast investigation in zhoushan islands, Vessel: R/V Zhehaike 1 |

**Conferences and Workshops**

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| **2023** | **Liang, Z.,** Letscher, R.T., and Knapp, A.N., Comparative surface ocean DOC:DON:DOP stoichiometry between the Atlantic and Pacific Oceans, The Sixth Xiamen Symposium on Marine Environmental Sciences. (**virtual talk)** |
| **2022** | **Liang, Z.**, Marconi, D, Sigman, D., & Knapp, A.N., Dissolved Organic Nitrogen Concentration and d15N Distribution along a Zonal Transect in the South Pacific. 2022 Ocean Sciences Meeting. (**virtual talk**) |
| **2021** | **Liang, Z.**, Letscher, R.T., and Knapp, A.N., Phosphate and Iron Control Global Surface Ocean Dissolved Organic Phosphorus Concentrations. 2021 ASLO meeting. (**virtual talk**) |
| **2020** | **Liang, Z.**, Letscher, R.T., McCabe, K., Marconi, D., Sigman, D.M., & Knapp, A.N., Dissolved organic phosphorus (DOP) distributions in the Eastern Indian Ocean and subtropical South Pacific Ocean. 2020 Ocean Sciences Meeting. (**poster**) |
| **2020** | Yan, Z., **Liang, Z.**, Zhong, X., Yan, M., & Xin, Y. Cycling of Dissolved Organic Nitrogen in a High Turbidity and High Dissolved Inorganic Nitrogen Content River-a case study in Yellow River, China. 2020 Ocean Sciences Meeting. (**poster**) |
| **2019** | Tutorial-based OCIM workshop, Woods Hole, MA, USA, June 2019. (**participant**) |

**Professional Memberships**

American Geophysical Union (AGU), American Society for Limnology and Oceanography (ASLO), US Chess Federation (rating: 1772)

**Honors and Awards**

2016-2017 The Second Class Scholarship Award for Excellence in Academic Work (rmb 2000)

2015-2016 The Fifth Zhangzidao Scholarship Award for Excellent Students (rmb 5000)

2015-2016 The Second Class Scholarship Award for Excellence in Academic Work (rmb 2000)

2014-2015 The First Class Scholarship Award for Excellence in Academic Work (rmb 3000)