Zhou Liang

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Education

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

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.** Key Laboratory of Marine Chemistry Theory and Technology, Ocean University of China, Qingdao, China. Dr. Yu Xin lab Project: Solid phase extraction of marine dissolved organic nitrogen

2017 summer	**Laboratory Technician.** Key Laboratory of Marine Chemistry Theory and Technology, 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

2023	**Liang, Z.**, Letscher, R.T., and Knapp, A. N., Global patterns of surface ocean dissolved organic matter stoichiometry. (**In preparation**)
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., Phosphate and iron stress control global surface ocean dissolved organic phosphorus concentrations; 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

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

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)