Zhou Liang

PhD candidate
Dept. of Earth, Ocean, and Atmospheric Science
1011 Academic Way

Tallahassee, FL, 32306-4520

Personal website: https://zliangocean.com

Email: zl18c@fsu.edu Cell: 850-300-8280

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. 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; ocean data science.

Publications

* denotes correspo	onding	authors
--------------------	--------	---------

2023	Liang, Z.*, Letscher, R.T., and Knapp, A. N., Global patterns of surface
	ocean dissolved organic matter stoichiometry. Global
	Biogeochemistry Cycles. (under review)
2023	Inomura K.*, Nishimura, Y., Armin, G., Letscher, RT., Liang, Z.,
	Pasquier, B., Lønborg, C., Deutsch, C., and Yoshizawa, S. Quantitative
	analysis of light harvesting by rhodopsin containing ocean
	prokaryotes. Ecological Letters. (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, WL., 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
2022	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-

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. https://doi.org/10.1016/j.scitotenv.2021.148882

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),59(S1):50-

55.<u>https://doi.org/10.6043/j.issn.0438-0479.202007117</u>(in Chinese)

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),59(S1):69-74. https://doi.org/10.6043/j.issn.0438-0479.202007115 (in Chinese)

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),59(S1):63-68.https://doi.org/10.6043/j.issn.0438-0479.202007116 (in Chinese)

Field Work

2020

2020

2020

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	Chemical Oceanography Gordon Research Conference
	(GRC), Southern New Hampshire University, NH, United
	States. (poster)
	Topic: "Dissolved organic phosphorus production and consumption in the global surface ocean"
2023	Chemical Oceanography Gordon Research Seminar (GRS),

the surface ocean controlled by both phosphate and iron stress" 2023 Luncheon Seminar, Xiamen University, Xiamen, China. (invited talk) Topic: "Thinking as a data scientist --- What controls dissolved organic phosphorus distribution in the global surface ocean?" 2023 Southern University of Science and Technology, Shenzhen, China. (invited talk) Topic: "What controls dissolved organic phosphorus distribution in the global surface ocean?" 2023 Ocean University of China. Qingdao, China. (invited talk) Topic: "What controls dissolved organic phosphorus distribution in the global surface ocean?" 2023 The Sixth Xiamen Symposium on Marine Environmental Sciences. (virtual talk) Topic: "Comparative surface ocean DOC:DON:DOP stoichiometry between the Atlantic and Pacific Oceans" 2022 2022 Ocean Sciences Meeting. (virtual talk) Topic: "Dissolved organic nitrogen concentration and d15N distribution along a zonal transect in the South Pacific" 2021 2021 ASLO meeting. (virtual talk) Topic: "Phosphate and iron control global surface ocean dissolved organic phosphorus concentrations." 2020 2020 Ocean Sciences Meeting, San Deigo, CA, United States. (poster) Topic: "Dissolved organic phosphorus (DOP) distributions in the eastern Indian Ocean and subtropical South Pacific Ocean" 2019 Tutorial-based Ocean Circulation Inverse Model (OCIM) workshop, Woods Hole, MA, United States. (participant)

(invited talk)

Southern New Hampshire University, NH, United States.

Topic: "Dissolved organic phosphorus concentrations in

Professional Memberships

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

Manuscript Referee

Marine Chemistry

Honors and Awards

2016-2017	Second Class Scholarship Award for Excellence in Academic Work (rmb 2000)
2015-2016	Scholarship Award for Excellent Students (rmb 5000)
2015-2016	Scholarship Award for Excellence in Academic Work (rmb 2000)
2014-2015	Scholarship Award for Excellence in Academic Work (rmb 3000)