

Zhanfei Liu

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Marine Science Institute
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a. Professional Preparation:

B.S. Chemical Oceanography, Xiamen University (China), 1997
M.S. Environmental Science and Engineering, Xiamen University (China), 2000
Ph.D. Coastal Oceanography, Stony Brook University, 2006

b. Appointments:

2015-present, Associate Professor, University of Texas at Austin
2009-2015, Assistant Professor, University of Texas at Austin
2008-2009, Research Assistant Professor, Old Dominion University
2006-2008, Postdoctoral Research Associate, Old Dominion University
2001-2006, Graduate Research Assistant, Stony Brook University

c. Five Relevant Publications

- Bacosa H.P., Liu Z., Erdner D.L. 2015. Natural sunlight shapes crude oil-degrading bacterial communities in northern Gulf of Mexico surface waters. *Frontier in Microbiology*, <http://dx.doi.org/10.3389/fmicb.2015.01325>.
- Bacosa H.P., Erdner D.L., Liu Z. 2015. Differentiating the roles of photooxidation and biodegradation in the weathering of Light Louisiana Sweet crude oil in surface water from the Deepwater Horizon site. *Marine Pollution Bulletin* 95, 265-272.
- Liu Z., Liu J., Gardner W.S., Shank G.C., Ostrom N.E. 2014. The impact of Deepwater Horizon oil spill on petroleum hydrocarbons in surface waters of the northern Gulf of Mexico. *Deep-Sea Research II* 129, 292-230.
- Liu Z. and Liu J. 2013. Evaluating bacterial community structures in the oil collected from sea surface and sediment in the northern Gulf of Mexico after the Deepwater Horizon oil spill. *MicrobiologyOpen* (DOI: 10.1002/mbo3.89).
- Liu Z., Liu J., Zhu Q., Wu W. 2012. The weathering of oil after the Deepwater Horizon oil spill: insights from the chemical composition of the oil from the sea surface, salt marshes and sediments. *Environmental Research Letters* 7(3), 1-14.

d. Five Other Significant Publications:

- Liu Z., Liu S., 2016. High phosphate concentrations accelerate peptide decomposition in hypoxic bottom Waters of the northern Gulf of Mexico. *Environmental Science & Technology* 50, 676-684.
- Liu, S., Liu, Z., 2015. Comparing extracellular enzymatic hydrolysis between plain peptides and their corresponding analogs in the northern Gulf of Mexico Mississippi River plume. *Marine Chemistry* 177, 398-407.
- Liu Z. Breecker D., Mayer L.M., Zhong J. 2013. Composition of size-fractionated sedimentary organic matter in coastal environments affected by different physical forcing strength. *Organic Geochemistry* 60, 20-32.

- Liu Z., Sleighter R., Hatcher P. 2011. A molecular evaluation of the contribution that lignin makes to coastal waters of the Chesapeake Bay region, using HPLC combined with ultrahigh resolution mass spectrometry. *Estuarine, Coastal and Shelf Science* 92, 205-216.
- Liu Z., G.M. Stewart, J.K. Cochran, C. Lee, R. Armstrong, D. Hirschberg, B. Gasser, and J.-C. Miquel. 2005. Why do POC concentrations measured using Niskin bottle collections sometimes differ from those using in situ pumps? *Deep-Sea Research I*, 52: 1324-1344.

e. Synergistic Activities

American Society of Limnology and Oceanography Member, 2006-present
Associate Editor for *Estuaries and Coasts*, 2014-present
Review Editor for *Frontier in Microbiology*
Reviewing manuscripts for *Marine Chemistry*, *Deep-Sea Research*, *Limnology and Oceanography*, *Geochimica et Cosmochimica Acta*, *Marine Chemistry*, *Estuarine Coast and Shelf Science*, *Organic Geochemistry*, *Biogeosciences*, etc.
NSF panelist
Mentored 6 minority undergraduate students

f. Collaborators & Other Affiliations

Collaborators and co-editors (31)

Michel Boufadel, New Jersey Institute of Technology; Dan Breecker, UT Austin; Ed Buskey, UTMSI; Robert H. Byrne, USF; Ken H Dunton, UTMSI; Deana L. Erdner, UTMSI; Wayne S. Gardner, UTMSI; Brad Gemmill, USF; Xiping Hu, Texas A&M University Corpus Christi
Joe Katz, Johns Hopkins University; Patrick J. Keeling, UBC; Kirsten Koehler, Johns Hopkins University; Larry Mayer, University of Maine; Nathan D. McTigue, NOAA; Paul Montagna, Texas A&M University Corpus Christi; William D. Orsi, University of Maryland; Camille Poirier, MBARI; Mark Reed, SINTEF; Thomas A. Richards, University of Exeter; Carole M. Sakamoto, MBARI; Alyson E. Santoro, University of Maryland; Alan Scott, Johns Hopkins University; G. Chris Shank, UTMSI; Jian Sheng, Texas A&M University Corpus Christi; Jason M. Smith, MBARI; Kathleen Stebe, University of Pennsylvania; J. Rudi Strickler, University of Wisconsin-Milwaukee; Kristen M. Thyng, Texas A&M University; Susanne Wilken, MBARI; Alexandra Z. Worden, MBARI; Kehui Xu, Louisiana State University

Graduate advisors and postdoctoral sponsors (2)

Ph.D. advisor: Cindy Lee, Stony Brook University
Postdoctoral sponsor: Patrick Hatcher, Old Dominion University

Thesis advisor and postgraduate-scholar sponsor (7)

Hernando Bacosa, postdoctoral associate (2013-present)
Jason Jenkins, MS student (2014-present)
John O'Connor, MS student (2016-present)
Kaijun Lu, PhD candidate (2012-present)
Meredith Evans, MS, (2013-2016)
Nick Reyna, MS student (2014-present)
Shuting Liu, PhD, (2010-2016), UCSB