

Curriculum Vitae

Jinliang Liu (jliu73@lsu.edu)

Ph.D. Candidate

Department of Oceanography & Coastal Sciences

Louisiana State University

I. Education

- Louisiana State University, Baton Rouge, LA
Ph.D. Candidate in **Physical Oceanography**, 2015 - present
Minor in **Civil Engineering**
- Ocean University of China, Qingdao, China.
Master in Environmental Science, 2011 - 2014
- Ocean University of China, Qingdao, China.
Bachelor in Environmental Science, 2007 - 2011

II. Publications

- **Liu, J.**, Liang, J. H., Xu, K., Chen, Q. J., & Ozdemir, C. E. (2019). Modeling Sediment Flocculation in Langmuir Turbulence. Submitted to *Journal of Geophysical Research: Oceans*.
- Abolfazli, E., Liang, J. H., Fan, Y., Chen, Q. J., Walker, N. D., & **Liu, J.** (2018). Surface Gravity Waves and Their Role in Ocean-Atmosphere Coupling in the Gulf of Mexico. Submitted to *Journal of Geophysical Research: Oceans*.
- **Liu, J.**, Liang, J. H., McWilliams, J. C., Sullivan, P. P., Fan, Y., & Chen, Q. (2018). Effect of planetary rotation on oceanic surface boundary layer turbulence. *Journal of Physical Oceanography*, 48(9), 2057-2080.
- Sun, S., & **Liu, J.** (2017). Sensitivity of the Antarctic Circumpolar Current transport to surface buoyancy conditions in the North Atlantic. *Ocean Modelling*, 118, 118-129.

III. Presentations

- **Liu, J.**, Liang, J. H., Xu, K., Ozdemir, C. E., & Chen, Q. (2019). Effect of flocculation processes on suspended cohesive sediment in Langmuir turbulence. *2019 Gulf of Mexico Oil Spill & Ecosystem Science Conference*. Poster.
- **Liu, J.**, Liang, J. H., Xu, K., & Chen, Q. (2018). Sediment flocculation modulated by turbulent water flows. *2018 Louisiana Coastal Geology Symposium*. Poster.
- **Liu, J.**, Liang, J. H., J. C. McWilliams, P. P. Sullivan, Y. Fan, & Chen, Q. (2017). Effect of planetary rotation on oceanic surface boundary layer turbulence. *2018 Ocean Science Meeting*. Oral.
- **Liu, J.**, & Liang, J. H. (2017). Effect of planetary rotation on wind and wave driven turbulence --- a numerical study. *Gulf of Mexico Graduate Student Symposium*. Oral.
- **Liu, J.**, Liang, J. H., & Chen, Q. (2016). Large eddy simulation of suspended

sediments in shallow water. *2016 South-Central GSA Section Meeting*. Oral.

IV. Awards

- Graduate Student Travel Awards by LSU Graduate School, Jan., 2018.
- Graduate Student Travel Awards by LSU Coastal Studies Institute, Dec., 2018.

V. Research Skills

- Experienced in geophysical fluid dynamics and sediment transport
- Proficient in MATLAB, FORTRAN, Python, & Linux
- Skilled in numerical modeling, with experience of LES, MITgcm, ROMS, SWAN, COAWST, FVCOM, & ECOMSED