

## Liuqian Yu

Department of Oceanography, Dalhousie University

1355 Oxford Street, Halifax, NS, B3H 4R2, Canada

Email: [liuqian.yu@dal.ca](mailto:liuqian.yu@dal.ca) Research Gate: [https://www.researchgate.net/profile/Liuqian\\_Yu](https://www.researchgate.net/profile/Liuqian_Yu)

---

### Education

2012 - present Dalhousie University, Canada PhD in Oceanography  
2007 - 2011 Sun Yat-sen University, China B.S. in Environmental Science

### Intern & Professional Experience

2011 Research assistant, Guangdong Provincial Key Laboratory of Environmental Pollution Control and Remediation Technology, China  
2010 Intern, South China Institute of Botany, Chinese Academy of Science

### Publications

Fennel, K., A. Laurent, R. Hetland, D. Justić, D. S. Ko, J. Lehrter, M. Murrell, L. Wang, **L. Yu**, and W. Zhang (2016) Effects of model physics on hypoxia simulations for the northern Gulf of Mexico: A model intercomparison. *Journal of Geophysical Research-Oceans*, 121, doi: 10.1002/2015JC011577

Yang, X., **Yu, L.**, Chen, Z., and Xu, M. (2016) Bioavailability of Polycyclic Aromatic Hydrocarbons and their Potential Application in Eco-risk Assessment and Source Apportionment in Urban River Sediment. *Scientific Report*, 6, 23134; doi: 10.1038/srep23134 (2016).

**Yu, L.**, Fennel, K. and Laurent, A. (2015) A modeling study of physical controls on hypoxia generation in the Northern Gulf of Mexico. *Journal of Geophysical Research-Oceans*, 120, 5019-5039.

**Yu, L.**, Fennel, K., Laurent, A., Murrell, M. C., and Lehrter, J. C. (2015) Numerical analysis of the primary processes controlling oxygen dynamics on the Louisiana shelf, *Biogeosciences*, 12, 2063-2076.

Ouyang L., Tang Q., **Yu, L.**, Zhang, R. (2014) Effects of amendment of different biochars on soil enzyme activities related to carbon mineralization. *Soil Research* 52(7): 706-716

Ouyang L., **Yu, L.**, Zhang, R. (2014) Effects of amendment of different biochars on soil carbon mineralization and sequestration. *Soil Research* 52(1): 46-54

**Yu, L.**, Tang, J., Zhang, R., Wu, Q., Gong, M. (2013) Effects of biochar application on soil methane emission at different soil moisture levels. *Biology and Fertility of Soils* 49(2): 119-128

Ouyang, L., Wang, F., Tang, J., **Yu, L.**, Zhang, R., (2013) Effects of biochar amendment on soil aggregates and hydraulic properties. *Journal of soil science and plant nutrition* 13(4): 991-1002

## Conference Presentations

Yu, L., Fennel, K., Bertino, L., Gharamti, M.E., Thompson, K., (11-13 July, 2016) Impacts of assimilating physical data and biological data jointly versus individually on ocean ecosystem dynamics. **Oral presentation** at: DA-MEAP-TT workshop, Santa Cruz, CA.

Yu, L., Fennel, K., Laurent, A., (1-4 Sept, 2015) Numerical analysis of primary processes controlling oxygen dynamics in the Northern Gulf of Mexico. **Oral presentation** at: Hjort Summer school, Bergen, Norway.

Yu, L., Fennel, K., Thompson, K., (23-24 June, 2015) Data assimilation for combined state and parameter estimation: application to a 3D ocean model. **Oral presentation** at: MEOPAR/MEAP-TT Workshop, Halifax, NS.

Yu, L., Fennel, K., Laurent, A. (23- 27 February, 2015) A modeling study of physical controls on hypoxia generation in the Northern Gulf of Mexico. **Oral presentation** at: ASLO Aquatic Sciences Meeting, Granada, Spain.

Yu, L., Fennel, K. and Laurent, A. (23-27 June, 2014) Physical controls on hypoxia on the Louisiana shelf. **Oral presentation** at: The 6<sup>th</sup> International Workshop on Modelling the Ocean (IWMO), Halifax, NS.

Yu, L., Fennel, K., Laurent, A., Hetland, R., Murrell M. and Lehrter, J. (17- 23 February, 2013) Primary process controlling oxygen dynamics on Texas-Louisiana Shelf. **Oral presentation** at: ASLO Aquatic Sciences Meeting, New Orleans, LA.

Yu, L., Laurent, A., Murrell M., Lehrter, J. and Fennel, K. (28 May-1 June, 2012) Predicting hypoxia in the Northern Gulf of Mexico: A comparison of observed and model-simulated respiration and primary production rates. **Poster presentation** at: Canadian Meteorological and Oceanographic Society Congress (CMOS), Montreal, QC.

## Awards & Honors

2015	POME Norwegian-Canadian exchange program PhD Mobility Grants
2014 - present	Nova Scotia Scholarship, Doctoral level
2012 - present	Graduate student scholarship, Dalhousie University
06/2011	Excellent Graduate of Sun Yat-sen University, China
06/2011	Excellent Graduate Thesis, Sun Yat-sen University, China
2008 - 2010	National Scholarship from Ministry of Education of China
2007 - 2011	Excellent Student Fellowship, Sun Yat-sen University, China