YAO LI

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EDUCATION

Ph.D. 2020 (expected)	Water Resources Engineering
	Zachry Department of Civil and Environmental Engineering,
	Texas A&M University, College Station
Ph.D. 2017	Cartography and Geographic Information System
	Institute of Remote Sensing and Digital Earth (RADI),
	Chinese Academy of Sciences (CAS)
B.S. 2012	Geographic Information System, College of Information Engineering,
	China University of Geosciences, Beijing, China (CUGB)

RESEARCH EXPERIENCE

2016 – Present	Research Assistant, Texas A&M University
2012 – 2016	Research Assistant, Chinese Academy of Sciences

RESEARCH INTERESTS

Hydrological remote sensing: leverage multi-source satellite data to derive global lake bathymetry and monitor reservoir storage.

Ocean color: use remote sensing data (e.g., satellite ocean color and field spectroscopy) to address the coastal ocean problems.

AWARDS & HONORS

2016-2018	Graduate Travel Fund Award, CVEN, Texas A&M University (3 times)
Dec. 2014	Distinguished Contribution Award, HRS, RADI, Chinese Academy of Sciences
Jun. 2012	Outstanding Graduate of Beijing, Beijing Municipal Education Commission (Top 1%)
Jun. 2012	Outstanding Graduate, China University of Geosciences, Beijing (Top 5%)
Nov. 2011	Honor of Excellent Student, China University of Geosciences, Beijing (Top 5%)
May. 2010	National Third-place Award of Mathematical Modeling, Chinese Society of Electrical Engineering
Nov. 2009	National Scholarship, Ministry of Education of the People's Republic of China (Top 1%)
2009-2011	First-place Scholarship, China University of Geosciences, Beijing (Top 3%, 4 times)

PROGRAMS

2019 Calibration and Validation of Ocean Color Remote Sensing summer program funded by NASA,the University of Maine, and WHOI.

PUBLICATIONS

Yao Li, Huilin. Gao, Michael F. Jasinski, Shuai. Zhang, and Jeremy D. Stoll (2019), Deriving High-Resolution Reservoir Bathymetry from ICESat-2 Prototype Photon-counting Lidar and Landsat

Imagery, *IEEE Transactions on Geoscience and Remote Sensing*.

Yao Li, Chuanmin Hu, Antonietta Quigg, Huilin Gao (2019), Potential influence of the Deepwater Horizon oil spill on primary production in the northern Gulf of Mexico, *Environmental Research Letters*, in review.

Yao Li, Huilin Gao, Gang Zhao, Kuo-Hsin Tseng (2019), A high-resolution bathymetry database for global reservoirs using multi-source satellite imagery and altimetry, *Remote Sensing of Environment*, in review.

Yao Li, Huilin Gao, Gang Zhao (2019), Monitoring of global reservoir storage from 1984 to 2015 using multi-source satellite data, *Water Resources Research*, in progress.

Yao Li, Kristen M. Thyng, Chuanmin Hu, Kerri Whilden, Chenghai Yang, Huilin Gao (2019), Evaluation of chlorophyll-a variations along the Galveston Offshore in response to Hurricane Harvey using field spectroscopy and satellite ocean color observations, *Journal of Geophysical Research: Oceans*, in progress.

Chao Ding, Xiangnan Liu, Fang Huang, **Yao Li**, Xinyu Zou (2017), Onset of drying and dormancy in relation to water dynamics of semi-arid grasslands from MODIS NDWI, *Agricultural and Forest Meteorology*, 234, 22-30.

Yao Li, Lifu Zhang, Changping Huang, Jinnian Wang, Yi Cen (2016), Monitor of Cyanobacteria Bloom in Lake Taihu from 2001 to 2013 Based on MODIS Temporal Spectral Data, *Spectroscopy and Spectral Analysis*, 36(5), 1406-1411.

Xueke Li, Taixia Wu, Kai Liu, **Yao Li**, Lifu Zhang (2016), Evaluation of the Chinese fine spatial resolution hyperspectral satellite TianGong-1 in urban land-cover classification, *Remote Sensing*, 8(5), 438.

Guibin Hao, Bo Wu, Lifu Zhang, Dongjie Fu, **Yao Li** (2016), Temporal and spatial variation analysis of the area of Siling Co in Tibet based on ESTARFM (1976-2014), *Journal of Geo-Information Science*, 18 (6), 833-846.

Chao Ding, Xiangnan Liu, Wencan, Meiling Liu, **Yao Li** (2014), Mafic–ultramafic and quartz-rich rock indices deduced from ASTER thermal infrared data using a linear approximation to the Planck function, *Ore Geology Reviews*, 60, 161-173.

Xiaojun She, Lifu Zhang, Muhammad Hasan Ali Baig, **Yao Li** (2014), Calculating Vegetation Index Based on the Universal Pattern Decomposition Method (VIUPD) Using Landsat 8, *Proceedings of Geoscience and Remote Sensing Symposium (IGARSS)*, 2014 IEEE International, pp. 4734-4737.

Muhammad Hasan Ali Baig, Lifu Zhang, Dongjie Fu, **Yao Li**, et al. (2014), Water Mapping Through Universal Pattern Decomposition Method and Tasseled Cap Transformation, *Proceedings of Geoscience and Remote Sensing Symposium (IGARSS), 2014 IEEE International*, pp. 4758-4760.

Kai Liu, Lifu Zhang, Hang Yang, Haitao Zhu, Hailing Jiang, **Yao Li** (2013), Hyperspectral Unstructured Background Target Detection Approach Based on Object-Oriented Analysis, *Spectroscopy and Spectral Analysis*, 33, 1653-165.

PRESENTATIONS

Yao Li, Chuanmin Hu, Antonietta Quigg, Huilin Gao (2019), Influence of the Deepwater Horizon oil spill on primary production in the northern Gulf of Mexico, *Gulf of Mexico Oil Spill & Ecosystem Science Conference*.

Yao Li, Huilin Gao, Michael Jasinski, Shuai Zhang, and Jeremy Stoll (2018), Towards High-Resolution Lake Bathymetry: an Algorithm tested using Data Collected by the ICESat-2 Airborne Simulator over Lake Mead, *AGU Fall Meeting*.

Yao Li, Huilin Gao, Adam Skarke (2018), Chlorophyll-a Variations on the Northern US Atlantic

Margin, *Gulf of Mexico Oil Spill & Ecosystem Science Conference*.

Yao Li, Huilin Gao, Michael Jasinski, Shuai Zhang, and Jeremy Stoll (2017), Comparing Storage Estimations for Lake Mead using multi-source satellite altimetry and imagery data, *EOS Trans. AGU Suppl.* 97(59).

Huilin Gao, Shuai Zhang, Gang Zhao, and **Yao Li** (2017), Advancing the capabilities of reservoir remote sensing by leveraging multi-source satellite data*, EOS Trans. AGU Suppl.* 97(59).

Yao Li, Huilin Gao, Shuai Zhang, and Antonietta Quigg (2017), Chlorophyll-a variations in the Gulf of Mexico in response to the Deepwater Horizon oil spill, *Gulf of Mexico Oil Spill & Ecosystem Science Conference*.

Changping Huang, Lifu Zhang, Na Qiao, Xia Zhang, **Yao Li** (2015), Vegetation Red-edge Spectral Modeling for Solar-induced Chlorophyll Fluorescence Retrieval at O2-Band, *AGU Fall Meeting*.

FIELD SURVEY

Harvey Rapid Response (HRR) Cruises funded by National Science Foundation (2017.09-2018.03).

Lake surveys across China (e.g. Qinghai Lake, Weishan Lake) from 2013 to 2015.

PROFESSIONAL MEMBERSHIP

Member of American Geophysical Union (AGU)

Institute of Electrical and Electronics Engineers (IEEE)

IEEE Young Professionals

American Water Resources Association (AWRA)