CURRICULUM VITAE

ZHIGANG CAO

Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences 73 East Beijing Road, Nanjing, Jiangsu, China, 210008, China Date of Birth: 28/02/1991

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Education

 Ph.D. Candidate, Cartography and Geographic Information System University of Chinese Academy of Sciences

Sep 2017~Prensent

 M.S., Cartography and Geographic Information System University of Chinese Academy of Sciences

Sep 2014~Jul 2017

 B.S., Geographic Information System Anhui Normal University

Sep 2010~Jul 2014

Publications

Published

- Zhigang Cao, Hongtao Duan, Haishan Cui et al., Remote estimation of suspended matters concentrations using VIIRS in Lake Hongze, China. *Journal of Infrared and Millimeter Waves*, 2016, 35, 462-469
- ★ Zhigang Cao, Hongtao Duan, Lian Feng et al., Climate- and human-induced changes in suspended particulate matter over Lake Hongze on short and long timescales. Remote Sensing of Environment, 2017, 192, 98-113

- ❖ Zhigang Cao, Ronghua Ma, Hongtao Duan et al., Effects of broad bandwidth on the remote sensing of inland waters. ISPRS Journal of Photogrammetry and Remote Sensing, 2019, 153:110-122

Under review and preparing

- Zhigang Cao, Ronghua Ma, Hongtao Duan et al., Human cultivation induced higher chlorophyll-a
 concentration in small lakes on eastern China, preparing.

Research Interests

- Remote sensing of aquatic environment
- Satellite data processing
- Ocean, coastal and inland water optics
- Machine learning and algorithm development

Professional skills

- Field Skills: Measuring spectrum and laboratory analysis
- Processional Skills: Linux, SeaDAS, Matlab, IDL, Python

Research experiences

Advisor

■ Sep 2014~Jul 2017, Research topic: Using MODIS and VIIRS to remote sensing of the Prof. Hongtao Duan suspended particular matter in Lake Hongze

■ Sep 2017~Present, Research topic: Using Landsat series data to extend chlorophyll-a dataset Prof. Ronghua Ma record in inland lakes

■ July 2019~Present, Research topic: Using airborne hyperspectral instrument (AVIRIS) to Prof. John M. Melack retrieve the chlorophyll-a in Lake Mono, California

Awards

 Dean's Special Award, Nanjing Branch of Chinese Academy of Sciences 	Oct 2019
 National Scholarship (For Ph.D Candidate) 	Oct 2018
■ Wu Yi Sun scholarship, Nanjing Branch of Chinese Academy of Sciences	Jul 2017
National Scholarship (For Master)	Oct 2016
 Merit Students, University of Chinese Academy of Sciences 	Jun 2016, May 2018

■ Outstanding graduates, Anhui Province, China Jun 2014