



School of Geography, Nanjing Normal University

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## Research Interests \_\_\_

My current interest is to build an algorithm blending framework for estimating optical active constitutes, such as Chlorophyll-a concentration, across Case I and II waters from remote sensing data.

My other interests include building Chla algorithms for specific water types (e.g., turbid Case II waters), column-integrated algal biomass for inland lakes, atmospheric correction, and data gap-filling for satellite imagery.

### Education

School of Geography, Geomatics and Planning, Jiangsu Normal University

BSc

2012 - 2016

School of Geography, Nanjing Normal University

Jiangsu, Nanjing

Ms School of Geography, Nanjing Normal University Stanges, Nanjing

School of Geography, Nanjing Normal University

Jiangsu, Nanjing

PH.D. 2018 - Now

# Awards and Honors

Jun-2017 the Third Prize of 2017 NNU Graduate Mathematical Modeling Comp	etition <i>China</i>
Dec-2017 the Second Prize of 2017 National Graduate Mathematical Modeling	Competition China
Nov-2018 ESA-MOST China Dragon 4 Cooperation: BEST POSTER AWARD	China
the Third Prize of the 6th Sharing Cup College Student Science and	Technology Resources sharing serveice  Ching
Apr-2019 innovation competition	Criina
Oct-2019 the First Prize of the 1st Hyerspectral Imagery Processing Competition	on - Orbit Cup China

# Grants and Fellowships \_\_\_\_\_\_

Dec-2018 the Postgraduate Research & Practice Innovation Program of Jiangsu province, China	Grant: KYCX18-1205
Sep-2017 the Second Prize Scholarship of 2016	China
Sep-2018 the First Prize Scholarship of 2017	China
Sep-2019 the First Prize Scholarship of 2018	China
Nov-2019 the Scholarship of Saiteng Fenghui of 2019	China
Nov-2020 the National Scholarship of 2020	China

### **Publications**

### PEER-REVIEWED JOURNAL ARTICLES

- 1. Bi, S., Li, Y., Xu, J., Liu, G., Song, K., Mu, M., Lyu, H., Miao, S., & Xu, J. (2019). Optical classification of inland waters based on an improved fuzzy c-means method. *Optics Express*, *27*(24), 34838–34856.
- 2. Bi, S., Li, Y., Lyu, H., Mu, M., Xu, J., Lei, S., Miao, S., Hong, T., & Zhou, L. (2019). Quantifying spatiotemporal dynamics of the column-integrated algal biomass in nonbloom conditions based on olci data: A case study of lake dianchi, china. *IEEE Transactions on Geoscience and Remote Sensing*, *57*(10), 7447–7459.
- 3. Bi, S., Li, Y., Wang, Q., Lyu, H., Liu, G., Zheng, Z., Du, C., Mu, M., Xu, J., Lei, S., & others. (2018). Inland water atmospheric correction based on turbidity classification using olci and slstr synergistic observations. *Remote Sensing*, 10(7), 1002.

- 4. Xu, J., Lei, S., Bi, S., Li, Y., Lyu, H., Xu, J., Xu, X., Mu, M., Miao, S., Zeng, S., & others. (2020). Tracking spatio-temporal dynamics of poc sources in eutrophic lakes by remote sensing. *Water Research*, *168*, 115162.
- 5. Liu, G., Li, L., Song, K., Li, Y., Lyu, H., Wen, Z., Fang, C., Bi, S., Sun, X., Wang, Z., & others. (2020). An olci-based algorithm for semi-empirically partitioning absorption coefficient and estimating chlorophyll a concentration in various turbid case-2 waters. *Remote Sensing of Environment*, 239, 111648.

#### **R PACKAGES**

- 1. Bi, S., & Li, Y. (2020). FCMm: Water spectra fuzzy-clustering, algorithm assessment, and blending. https://github.com/bishun945/FCMm
- 2. Bi, S., & Li, Y. (2019). DAMATO: Data management toolbox. https://github.com/bishun945/DAMATO
- 3. Bi, S., & Liu, G. (2020). Seadasr (private): Running seadas with r. https://github.com/bishun945/seadasr
- 4. Bi, S., & Li, Y. (2019). TSSIM (private): Time-series-based spatial interpolation method. https://github.com/bishun945/TSSIM

# Conferences \_\_\_\_\_

May-2017 Jiangsu University Geography Postgradutae Forum (2017)	Jiangsu, Nanjing
Sep-2017 the 5th Graduate Forum of Jiangsu Society of Oceanology and Lomnology	Jiangsu, Nanjing
Oct-2017 the 1st China Plateau Lake Forum	Yunnan, Kunming
Apr-2018 Jiangsu University Geography Postgradutae Forum (2018)	Jiangsu, Nanjing
Nov-2018 ESA-MOST DRAGON 4 PROGRAMME - Advanced Training Course in Ocean & Coastal Remote Sensing	Guangdong,
NOV-2018 ESA-MOST DRAGON 4 PROGRAMME - Advanced Halling Course in Ocean & Coastal Remote Sensing	Shenzhen
Nov-2018 National Forum for Doctoral Students in Geographic Information Science (2018)	Jiangsu, Nanjing
Nov-2018 the 18th Water Color Remote Sensing Conference in China	Guangdong,
Nov-2018 the 18th Water Color Remote Sensing Conference in China	Zhanjiang
Aug-2019 the 1st Wetland Remote Sensing Conference in China	Jilin, Changchung
Nov-2019 the 19th Water Color Remote Sensing Conference in China	Hainan, Sanya
Aug-2020 the 2nd Wetland Remote Sensing Conference in China	Online
Dec-2020 National Forum for Doctoral Students in Geographic Information Science (2020)	Online

# Languages \_\_\_\_\_

Mandarin (native), English (written and oral)

### Skills

**Programming skills** R, Python, IDL, MATLAB

**Operating systems** Windows, Linux (Ubuntu), macOS

Remote sensing processing tools SeaDAS, SNAP, QGIS, POLYMER, ACOLITE, ENVI, GEE, Hydro/EcoLight

**Experiment skills** Apparent optical properties collection: ASD HH2, TriOS RAMSES; Inherent optical properties collection: HydroScat-6, LISST-100X; Quantitative filter technique.

### References

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