

SHUN BI 毕顺

Currently searching for a PD position

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

- 2012
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2016
- **Jiangsu Normal University**
B.S. in Remote Sensing Science and Technology 📍 Xuzhou, China
- Thesis: Analysis of Spatiotemporal Characteristics of Drought in Qinghai-Tibet Region Based on Meteorological Drought Composite Index
- 2016
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2018
- **Nanjing Normal University**
M.S. in Remote Sensing of Environment 📍 Nanjing, China
- Qualified for the Successive Master-Doctor Program in 2018
- 2018
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Now
- **Nanjing Normal University**
Ph.D in Remote Sensing of Environment 📍 Nanjing, China
- Thesis: Remote Sensing of Column-integrated Algal Biomass for Inland Waters Based on Soft Classification (expected to receive the degree in June 2019)

PUBLICATIONS

- 2018
- **Estimation of chlorophyll-a concentration in Lake Erhai based on OLCI data**
J. Lake Sci., 30(3), 701–712 (in Chineses)
Bi S, Li Y, Lu H, Zhu L, Mu M, Lei S, Wen S, Ding X
- 2018
- **Inland water atmospheric correction based on turbidity classification using OLCI and SLSTR synergistic observations**
Remote Sensing, 10(7), 1002
Bi S, Li Y, Wang Q, Lyu H, Liu G, Zheng Z, Du C, Mu M, Xu J, Lei S
- 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.
Bi S, Li Y, Lyu H, Mu M, Xu J, Lei S, Miao S, Hong T, Zhou L



Contact Info

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🐙 github.com/bishun945

📄 [Shun_Bi](#)

🐦 [bishun945](#)

For more information, please contact me via email.

Skills

Experienced in atmospheric correction, Chla algorithm and optical water clustering.

Full experience in remote sensing image processing.

R, Python, IDL, MATLAB, SeaDAS, SNAP, Ubuntu, macOS.

Languages

Mandarin (native), English (written and oral)




This resume (see [online](#) version) was made with the R package [pagedown](#).


Last updated on 2021-02-18.

- 2019 ● **Optical classification of inland waters based on an improved Fuzzy C-Means method**
Optics Express, 27(24), 34838–34856
Bi S, Li Y, Xu J, Liu G, Song K, Mu M, Lyu H, Miao S, Xu J
- 2021 ● **Assessment of algorithms for estimating chlorophyll-a concentration in inland waters: A round-robin scoring method based on the optically fuzzy clustering**
IEEE Transactions on Geoscience and Remote Sensing, *press*
Bi S, Li Y, Liu G, Song K, Xu J, Dong X, Cai X, Mu M, Miao S, Lyu H
- 2020 ● **Tracking spatio-temporal dynamics of POC sources in eutrophic lakes by remote sensing**
Water Research, 168, 115162
Xu J, Lei S, Bi S, Li Y, Lyu H, Xu J, Xu X, Mu M, Miao S, Zeng S & 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
Liu G, Li L, Song K, Li Y, Lyu H, Wen Z, Fang C, Bi S, Sun X, Wang Z & others
- 2021 ● **Simultaneous inversion of concentrations of POC and its endmembers in lakes: A novel remote sensing strategy**
Science of the Total Environment, 145249.
Xu J, Li Y, Lyu H, Lei S, Mu M, Bi S, Xu J, Xu X, Miao S, Li L, & others
- 2021 ● **Characteristics of the chromophoric dissolved organic matter of urban black-odor rivers using fluorescence and UV-visible spectroscopy**
Environmental Pollution, 268, 115763
Miao S, Lyu H, Xu J, Bi S, Guo H, Mu M, Lei S, Zeng S, Liu H



R PACKAGES

- 2020 ● **FCMm: Water spectra fuzzy-clustering, algorithm assessment, and blending**
 package version 0.10.3
Bi S, Li Y, Liu G
- 2020 ● **DAMATO: Data Management Toolbox**
 package version 0.0.7
Bi S, Li Y, Cheng X
- 2020 ● **seadasr: Running seadas with R**
 package version 0.0.1 (*private*)
Bi S, Liu G, Li Y

- 2019 ● **TSSIM: Time-Series-based Spatial Interpolation Method**
 package version 0.0.2 (*private*)
 Bi S, Li Y

AWARDS AND HONORS

- 2017 ● **the Third Prize of 2017 NNU Graduate Mathematical Modeling Competition**
 Title: Research on Feature Selection and Classifier Algorithm in Intrusion Detection (*in Chineses*)
 Bi S, Chen B, Ding X
- 2017 ● **the Second Prize of 2017 National Graduate Mathematical Modeling Competition**
 Title: Foreground target extraction based on surveillance video (*in Chineses*)
 Bi S, Chen B, Ding X
- 2018 ● **ESA-MOST China Dragon 4 Cooperation: BEST POSTER AWARD**
 Title: Inland water atmospheric correction based on turbidity classification using OLCI and SLSTR synergistic observations
- 2018 ● **the Third Prize of the 6th Sharing Cup College Student Science and Technology Resources sharing service innovation competition**
 Title: Evaluation of atmospheric correction methods for inland lakes based on Sentinel-3 OLCI data (*in Chineses*)
 Bi S, Hong T, Zhou L
- 2019 ● **the First Prize of the 1st Hyerspectral Imagery Processing Competition - Orbit Cup**
 Title: Evaluation of the application of ZH-1 data in remote sensing of water color in inland lakes (*in Chinese*)
 Bi S, Hong T, Li L

GRANTS AND FELLOWSHIPS

- 2018 ● **Postgraduate Research & Practice Innovation Program of Jiangsu province, China**
 Project title: Research on the three-dimensional spatiotemporal pattern of the total biomass of cyanobacteria in Taihu Lake based on remote sensing technology (*in Chineses*)
- 2016 ● **the Second Prize Scholarship**
 Funded by Nanjing Normal University
- 2017
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2020 ● **the First Prize Scholarship**
 Funded by Nanjing Normal University
- 2019 ● **Scholarship of Saiteng Fenghui**
 Funded by Suzhou Secote Precision Electronic Co., Ltd.

- 2020 ● **China National Scholarship**
Funded by Ministry of Education of the People's Republic of China

CONFERENCES

- 2017 ● **Jiangsu University Geography Postgradutae Forum**
📍 Nanjing, China
- 2017 ● **the 5th Graduate Forum of Jiangsu Society of Oceanology and Lomnology**
📍 Nanjing, China
- 2017 ● **the 1st China Plateau Lake Forum**
📍 Kunming, China
- 2018 ● **Jiangsu University Geography Postgradutae Forum**
📍 Nanjing, China
- 2018 ● **ESA-MOST DRAGON 4 PROGRAMME - Advanced Training Course in Ocean & Coastal Remote Sensing**
📍 Shenzhen, China
- 2018 ● **National Forum for Doctoral Students in Geographic Information Science**
📍 Nanjing, China
- 2018 ● **the 18th Water Color Remote Sensing Conference in China**
📍 Zhanjiang, China
- 2019 ● **the 1st Wetland Remote Sensing Conference in China**
📍 Changchung, China
- 2019 ● **the 19th Water Color Remote Sensing Conference in China**
📍 Sanya, China
- 2020 ● **the 2nd Wetland Remote Sensing Conference in China**
📍 Online
- 2020 ● **National Forum for Doctoral Students in Geographic Information Science**
📍 Online

References

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