# SHUN BI 毕顺

### **Currently searching for a PD position**

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. 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

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 | 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 (qualified for the Successive Master-Doctor Program in 2018 and expected to receive the degree in June 2021)

# ■ SELECTED PUBLICATIONS

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, IF 5.855

Bi S, Li Y, Liu G, Song K, Xu J, Dong X, Cai X, Mu M, Miao S, Lyu H

2019

 Optical classification of inland waters based on an improved Fuzzy C-Means method \*

Optics Express, 27(24), 34838–34856, **IF 3.669 Bi S**, Li Y, Xu J, Liu G, Song K, Mu M, Lyu H, Miao S, Xu J

2019

 Quantifying spatiotemporal dynamics of the columnintegrated 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, **IF 5.855** 

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
- R Shun Bi
- **y** 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 was made with the R package **pagedown**.

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Last updated on 2021-02-19.

Inland water atmospheric correction based on turbidity 2018 classification using OLCI and SLSTR synergistic observations \* Remote Sensing, 10(7), 1002, IF 4.118 Bi S, Li Y, Wang Q, Lyu H, Liu G, Zheng Z, Du C, Mu M, Xu J, Lei S Estimation of chlorophyll-a concentration in Lake Erhai 2018 based on OLCI data \* Journal Lake Science, 30(3), 701-712 (in Chinese), IF 1.445 Bi S, Li Y, Lu H, Zhu L, Mu M, Lei S, Wen S, Ding X Tracking spatio-temporal dynamics of POC sources in 2020 eutrophic lakes by remote sensing \* Water Research, 168, 115162, IF 9.13 Xu J, Lei S, Bi S, Li Y, Lyu H, Xu J, Xu X, Mu M, Miao S, Zeng S & others An OLCI-based algorithm for semi-empirically partitioning 2020 absorption coefficient and estimating chlorophyll a concentration in various turbid case-2 waters \* Remote Sensing of Environment, 239, 111648, IF 9.085 Liu G, Li L, Song K, Li Y, Lyu H, Wen Z, Fang C, Bi S, Sun X, Wang Z & others Simultaneous inversion of concentrations of POC and its 2021 endmembers in lakes: A novel remote sensing strategy \* Science of the Total Environment, 770, 145249, IF 6.551 Xu J, Li Y, Lyu H, Lei S, Mu M, Bi S, Xu J, Xu X, Miao S, Li L, & others Characteristics of the chromophoric dissolved organic 2021 matter of urban black-odor rivers using fluorescence and UV-visible spectroscopy \* Environmental Pollution, 268, 115763, IF 6.793 Miao S, Lyu H, Xu J, Bi S, Guo H, Mu M, Lei S, Zeng S, Liu H R PACKAGES FCMm: Water spectra fuzzy-clustering, algorithm 2020 assessment, and blending \* Version 0.10.3 Bi S, Li Y, Liu G DAMATO: Data Management Toolbox \* 2020 Version 0.0.7 Bi S, Li Y, Cheng X seadasr: Running seadas with R \* 2020 Version 0.0.1 (private)

Bi S, Liu G, Li Y

TSSIM: Time-Series-based Spatial Interpolation Method \* 2019 Version 0.0.2 (private) Bi S. Li Y AWARDS AND HONORS the Third Prize of 2017 NNU Graduate Mathematical 2017 **Modeling Competition** Title: Research on Feature Selection and Classifier Algorithm in Intrusion Detection (in Chinese) Bi S, Chen B, Ding X the Second Prize of 2017 National Graduate Mathematical 2017 **Modeling Competition** Title: Foreground target extraction based on surveillance video (in Chinese) Bi S, Chen B, Ding X **ESA-MOST China Dragon 4 Cooperation: BEST POSTER** 2018 **AWARD** Title: Inland water atmospheric correction based on turbidity classification using OLCI and SLSTR synergistic observations the Third Prize of the 6th Sharing Cup College Student 2018 Science and Technology Resources sharing serveice innovation competition \* Title: Evaluation of atmospheric correction methods for inland lakes based on Sentinel-3 OLCI data (in Chinese) Bi S, Hong T, Zhou L the First Prize of the 1st Hyerspectral Imagery Processing 2019 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 Postgraduate Research & Practice Innovation Program of 2018 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 Chinese) the Second Prize Scholarship 2016 Funded by Nanjing Normal University the First Prize Scholarship 2017 Funded by Nanjing Normal University 2020

Scholarship of Saiteng Fenghui

Funded by Suzhou Secote Precision Electronic Co., Ltd.

2019

2020	•	China National Scholarship Funded by Ministry of Education of the People's Republic of China
		CONFERENCES
2017	•	Jiangsu University Geography Postgradutae Forum
2017	•	the 5th Graduate Forum of Jiangsu Society of Oceanology and Lomnology
		<b>♀</b> Nanjing, China
2017	•	the 1st China Plateau Lake Forum
		<b>♥</b> Kunming, China
2018		Jiangsu University Geography Postgradutae Forum  ▼ Nanjing, China
2018		ESA-MOST DRAGON 4 PROGRAMME - Advanced Training Course in Ocean & Coastal Remote Sensing
		<b>♥</b> Shenzhen, China
2018		National Forum for Doctoral Students in Geographic Information Science
		<b>♀</b> Nanjing, China
2018		the 18th Water Color Remote Sensing Conference in 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
		<b>♀</b> Online

## References

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