SHUN BI 毕顺

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

2016 | 2021 Nanjing Normal University

Ph.D in Remote Sensing of Geo-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)

2012 | 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



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, Early Access. 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

2018

Inland water atmospheric correction based on turbidity 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



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)

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2018		Estimation of chlorophyll-a concentration in Lake Erhai 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
2020		Tracking spatio-temporal dynamics of POC sources in eutrophic lakes by remote sensing Water Research, <i>168</i> , 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
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, IF 9.085 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, 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
2021		Characteristics of the chromophoric dissolved organic matter of urban black-odor rivers using fluorescence and UV-visible spectroscopy Environmental Pollution, <i>268</i> , 115763, IF 6.793 Miao S, Lyu H, Xu J, Bi S , Guo H, Mu M, Lei S, Zeng S, Liu H
	8	R PACKAGES
2021		FCMm: Water spectra fuzzy-clustering, algorithm assessment, and blending Version 0.11.1 Bi S, Li Y, Liu G
2021	•	DAMATO: Data Management Toolbox Version 0.0.8 Bi S, Li Y, Cheng X
2021		Algal Game: Solver of the reaction-diffusion-taxis model of phytoplankton, nutrients, and light in water column Version 0.1 Bi S, Li Y, Li J
2020		seadasr: Running seadas with R Version 0.0.1 (<i>private</i>) Bi S, Liu G, Li Y
2019		TSSIM: Time-Series-based Spatial Interpolation Method Version 0.0.2 (<i>private</i>) Bi S, Li Y

Q AWARDS AND HONORS

the Third Prize of 2017 NNU Graduate Mathematical 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 Modeling Competition

Title: Foreground target extraction based on surveillance video (*in Chinese*)

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

the Third Prize of the 6th Sharing Cup College Student 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 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

Outstanding Graduate in Nanjing Normal University

F GRANTS AND FELLOWSHIPS

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 Chinese*)

2020 • China National Scholarship

2021

2017

2020

2016

Funded by Ministry of Education of the People's Republic of China

2019 • Scholarship of Saiteng Fenghui

Funded by Suzhou Secote Precision Electronic Co., Ltd.

the First Prize Scholarship

Funded by Nanjing Normal University

the Second Prize Scholarship

Funded by Nanjing Normal University

		CONFERENCES AND PRESENTATIONS
2021	•	Looking back on my PhD ◆ Nanjing, China
2020	•	ALGAL GAME
2020	•	National Forum for Doctoral Students in Geographic Information Science
2020	•	♥ Online the 2nd Wetland Remote Sensing Conference in China
2019	•	♥ Online the 19th Water Color Remote Sensing Conference in China ♥ Sanya, China
2019	•	the 1st Wetland Remote Sensing Conference in China Changchung, China
2018	•	the 18th Water Color Remote Sensing Conference in China ◆ Zhanjiang, China
2018	•	National Forum for Doctoral Students in Geographic Information Science
2018	•	ESA-MOST DRAGON 4 PROGRAMME - Advanced Training Course in Ocean & Coastal Remote Sensing
2018	•	♥ Shenzhen, China Jiangsu University Geography Postgradutae Forum • Nanjing, China
2017	•	the 1st China Plateau Lake Forum • Kunming, China
2017	•	the 5th Graduate Forum of Jiangsu Society of Oceanology and Lomnology
2017	•	▼ Nanjing, China Jiangsu University Geography Postgradutae Forum
		Nanjing, China

References

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