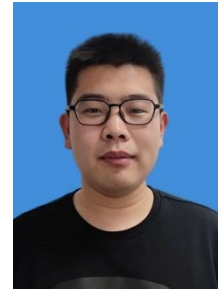


# Jianghe Xing

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## RESEARCH INTERESTS

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- Deep Learning
- Remote Sensing for Earth Observation
- Semantic Segmentation and Change Detection
- Land Use/ Land Cover Classification in Mining Areas

## EDUCATION

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Sep. 2022 - Present      China University of Mining and Technology-Beijing (CUMTB)  
Ph.D. candidate in Surveying and Mapping Science and Technology

Sep. 2019 - Jun. 2022      China University of Mining and Technology-Beijing (CUMTB)  
M.S. in Geodesy and Surveying Engineering

Sep. 2015 - Jun. 2019      Liaoning Technical University (LNTU)  
B.M. in Surveying and Mapping Engineering

## RESEARCH PROJECTS

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Nov. 2022 - Present      “Ecological big data monitoring and intelligent analysis in coal mining areas”  
Funded by the China Energy Investment Corporation Ltd., China  
**My work:** 1) Compilation of project proposals and technical programmes. 2) Land use classification in mining areas

Sep. 2021 - Present      “Ecological restoration monitoring and land use supervision in coal mining areas”  
Funded by the China Natural Resources Aerogeophysical and Remote Sensing Center, China  
**My work:** Ecological restoration area identification and illegal mining monitoring with deep learning methods.

Jan. 2020 - Dec. 2022      “Spatial identification of contaminated sites based on high-precision remote sensing image and geographic big data”  
Funded by the Ministry of Science And Technology, China  
**My work:** Build contaminated site datasets and Identify contaminated sites such as tailings ponds, coke plants and coal mines.

Jan. 2020 - Mar. 2022      “Research on the application technology of ecological environment based on aerial high resolution remote sensing data”  
Funded by the Aerospace Information Innovation Research Institute, Chinese Academy of Sciences, China  
**My work:** Optimize convolutional neural networks for wetland cover classification.

Sep. 2019 - Aug. 2020 “Research on the application of domestic Gaofen satellite data in airport airspace monitoring”  
Funded by the Key Laboratory of Spatio-temporal Information and Intelligent Services (LSIIS), Ministry of Natural Resources, China  
**My work:** Design fully convolutional neural network (FCN) for the accurate recognition of buildings around airports.

## PUBLICATIONS

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- 2022 **Xing Jianghe** , Li Jun\* Du Shouhang, et al. Multi-Level Fusion of Object-based Image Analysis and Improved DenseNet for Land Use Classification: Application in Mining Areas. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*.(Under Review)  
Du Shouhang, **Xing Jianghe**, Du Shihong\*, et al. IMG2HEIGHT: Height Estimation from Single Remote Sensing Image Using a Deep Convolutional Encoder-Decoder Network . *International Journal of Remote Sensing*. (Under Review)  
Zhang Chengye, **Xing Jianghe**, Li Jun\*, et al. A New Method for the Extraction of Tailing Ponds from Very High-Resolution Remotely Sensed Images: PSVED. *International Journal of Digital Earth*.(Under Review)
- 2022 Du Shouhang, **Xing Jianghe**, Li Jun\*, et al. Open-Pit Mine Extraction from Very High-Resolution Remote Sensing Images Using OM-DeepLab. *Natural Resources Research*, 2022, 31(6): 3173-3194. DOI: 10.1007/s11053-022-10114-y. (SCI, Q1)  
Li Jun, **Xing Jianghe**, Du Sshouhang\*, et al. Change Detection of Open-Pit Mine Based on Siamese Multi-Scale Network. *IEEE Geoscience and Remote Sensing Letters*, 2022. DOI: 10.1109/LGRS.2022.3232763. (SCI, Q1)  
Sang Xiao, Li Jun\*, Zhang Chengye, **Xing Jianghe**, et al. Downscaling Microwave Soil Moisture Products with SM-RDNet for Semiarid Mining Areas. *Water*. 2022, 50(06): 90-103. DOI:10.3390/w14111792. (SCI, Q2)  
Zhang Chengye, Li Feiyue, Li Jun\*, **Xing Jianghe**, et al. Recognition of Land Use on Open-Pit Coal Mining Area Based on Deeplabv3+ and GF-2 High-Resolution Images. *Coal Geology and Exploration*. 2022, 14(11): 1792. DOI: 10.12363/issn.1001-1986.22.01.0029. (EI)
- 2021 Zhang Chengye, **Xing Jianghe**, Li Jun\*, et al. Recognition of The Spatial Scopes of Tailing Ponds Based on U-Net and GF-6 Images . *Remote Sensing for Natural Resources*. 2022, 14(11): 1792. DOI: 10.6046 /zrzyyg.2021017. (CSCD)  
Sang xiao, Zhang Chengye, Li Jun\*, Zhu Shoujie, **Xing Jianghe**, et al. Recognition of The Spatial Scopes of Tailing Ponds Based on U-Net and GF-6 Images. *Remote Sensing for Natural Resources*. 2022, 14(11): 1792. DOI: 10.6046 /zrzyyg.2021017. (CSCD)

## ACADEMIC SKILLS

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- **Languages:** Chinese (native), English (foreign)
- **Programming:** Python, Matlab
- **Spatial Analysis and Cartography:** ArcGIS, ArcPy, QGIS, ENVI
- **Research tools:** EndNote, Origin, Visio, SPSS, GitHub

## HONORS AND AWARDS

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2022 - 2023	Scholarship of CUMTB
2019 - 2022	Scholarship of CUMTB
2015 - 2019	Scholarship of LNTU