

个人简介

2025 年 9 月以“文峰副教授”身份入职重庆邮电大学，计算机科学与技术学院，博后导师为**韩军伟教授**（长江学者、IEEE Fellow）。

2025 年 6 月博士毕业于中国科学院大学，空天信息创新研究院，地图学与地理信息系统专业，导师为**高连如研究员**（国家杰青、IET Fellow），研究方向为高光谱遥感超分辨率重建。

2020 年 6 月本科毕业于重庆大学，土木工程学院，测绘工程专业。专业第一推免直博。

目前，我共发表 27 篇学术论文，以第一作者身份发表论文 10 篇，包括中科院 1 区 TOP 期刊 5 篇，中科院 3 区期刊 2 篇，其中**7 篇入选 ESI 高被引**，1 篇荣获国际会议最佳论文，引用量合计 1523 次，单篇最高引用 524 次，6 篇文章引用破百。相关成果获得美国科学院院士、中国科学院院士、学会 Fellow 等国内外知名学者的引用和积极评价。受邀担任 30 多个国际知名期刊独立审稿人。

教育经历

中国科学院大学，空天信息创新研究院

2020.09-2025.07

地图学与地理信息系统

导师: **高连如**（国家杰青、IET Fellow）

毕业论文: 基于无监督深度学习的高光谱图像超分辨率重建研究

重庆大学，土木工程学院

2016.09-2020.07

测绘工程

GPA 排名 1/26

毕业论文: 基于深度学习的高光谱图像超分辨率重建方法研究

工作经历

重庆邮电大学，计算机科学与技术学院

2025.09-至今

文峰副教授

博后导师: **韩军伟**（长江学者、IEEE Fellow）

代表作

- 李嘉鑫, 洪丹枫, 高连如, 姚靖, 郑珂, 张兵, Jocelyn Chanussot. Deep learning in multimodal remote sensing data fusion: A comprehensive review[J]. International Journal of Applied Earth Observation and Geoinformation, 2022, 112: 102926. [Paper link] [ESI Highly Cited Papers, 521 citations]
- 李嘉鑫, 郑珂, 高连如, 韩竹, 李智, Jocelyn Chanussot. Enhanced Deep Image Prior for Unsupervised Hyperspectral Image Super-resolution[J]. IEEE Transactions on Geoscience and Remote Sensing, 2025, 63, 1-18. [Paper link] [Code] [ESI Highly Cited Papers, 79 citations]
- 李嘉鑫, 郑珂, 高连如, 倪丽, 黄国, Jocelyn Chanussot. Model-informed Multistage Unsupervised Network for Hyperspectral Image Super-resolution[J]. IEEE Transactions on Geoscience and Remote Sensing, 2024, 62, 1-17. [Paper link] [Code] [ESI Highly Cited Papers, 150 citations]
- 李嘉鑫, 郑珂, 李智, 高连如, 贾秀萍. X-shaped Interactive Autoencoders with Cross-Modality Mutual Learning for Unsupervised Hyperspectral Image Super-resolution[J]. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-17. [Paper link] [Code] [ESI Highly Cited Papers, 141 citations]
- 高连如, 李嘉鑫, 郑珂, 贾秀萍. Enhanced Autoencoders with Attention-embedded Degradation Learning for Unsupervised Hyperspectral Image Super-resolution[J]. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-17. [Paper link] [Code] [ESI Highly Cited Papers, 148 citations]
- 李嘉鑫, 郑珂, 刘文谷, 李智, 于浩洋, 倪丽. Model-Guided Coarse-to-Fine Fusion Network for Unsupervised Hyperspectral Image Super-Resolution[J]. IEEE Geoscience and Remote Sensing Letters, 2023, 20:1-5. [Paper link] [Code] [ESI Highly Cited Papers, 135 citations]
- 李嘉鑫, 郑珂, 姚靖, 高连如, 洪丹枫. Deep unsupervised blind hyperspectral and multispectral data fusion[J]. IEEE Geoscience and Remote Sensing Letters, 2022, 19: 1-5. [Paper link] [Code] [ESI Highly Cited Papers, 181 citations]

1. Jin Xu, Yuanchao Su, Xu Sun, **Jiaxin Li**, Haiwei Li, Jianjian Gao. FusGAT: Graph Attention-Based Fusion Network for Unsupervised Hyperspectral Image Super-Resolution[J]. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2025, 18, 11610-11622. [\[Paper link\]](#)
2. Jia Jia, Haoyang Yu, Chengjun Wang, Ke Zheng, **Jiaxin Li**, Jiaochan Hu. Spectral-Spatial Collaborative Pretraining Framework With Multiconstraint Cooperation for Hyperspectral–Multispectral Image Fusion[J]. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2025, 18, 11610-11622. [\[Paper link\]](#)
3. Qihui Wang, Qiong Ran, Ke Zheng, **Jiaxin Li**. Spatiotemporal Fusion Algorithm Based on Multikernel Adaptive Network[J]. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2025, 18, 11941-11952. [\[Paper link\]](#)
4. Xiaotong Qi, Yang Xu, Ke Zheng, **Jiaxin Li**, Le Yu, Yuhang Zhao. A Multistage Semi-Supervised Network for Hyperspectral Super-Resolution[J]. IEEE Transactions on Geoscience and Remote Sensing, 2025, 63, 1-17. [\[Paper link\]](#)
5. **Jiaxin Li**, Ke Zheng, Lianru Gao, Zhu Han, Zhi Li, Jocelyn Chanussot. Enhanced Deep Image Prior for Unsupervised Hyperspectral Image Super-resolution[J]. IEEE Transactions on Geoscience and Remote Sensing, 2025, 63, 1-18. [\[Paper link\]](#) [\[Code\]](#) [\[ESI Highly Cited Papers\]](#)
6. Ke Zheng, Aiyu Chen, Haoyang Yu, **Jiaxin Li**, Bing Zhang. Unsupervised Pretraining Framework Guided Hyperspectral and Multispectral Image Fusion[J]. IEEE Geoscience and Remote Sensing Letters, 2025, 22, 1-5. [\[Paper link\]](#)
7. Sheng Li, Yuanchao Su, Xu Sun, **Jiaxin Li**, Boyan Li, Jianjian Gao. DMSN: A Deep Multistream Network for Hyperspectral Image Super-Resolution[J]. IEEE Geoscience and Remote Sensing Letters, 2025, 22: 1-5. [\[Paper link\]](#) [\[Code\]](#)
8. Dong Chen, Junping Zhang, **Jiaxin Li**. UNMamba: Cascaded Spatial–Spectral Mamba for Blind Hyperspectral Unmixing[J]. IEEE Geoscience and Remote Sensing Letters, 2025, 22: 1-5. [\[Paper link\]](#) [\[Code\]](#)

2024

1. **Jiaxin Li**, Ke Zheng, Lianru Gao, Li Ni, Min Huang, Jocelyn Chanussot. Model-informed Multi-stage Unsupervised Network for Hyperspectral Image Super-resolution[J]. IEEE Transactions on Geoscience and Remote Sensing, 2024, 62, 1-17. [\[Paper link\]](#) [\[Code\]](#) [\[ESI Highly Cited Papers\]](#)
2. Zhi Li, Ke Zheng, **Jiaxin Li**, Chengrui Li, Lianru Gao. Cross-Semantic Heterogeneous Modeling Network for Hyperspectral Image Classification[J]. IEEE Transactions on Geoscience and Remote Sensing, 2024, 62: 1-16. [\[Paper link\]](#)
3. Wenjuan Zhang, Ruiqi Sun, Zhen Li, Lianru Gao, **Jiaxin Li**, Bin Zhao, Bing Zhang. Non-local Similarity Based Attentive Graph Convolution Network for Remote Sensing Image Super-Resolution[J]. IEEE Transactions on Geoscience and Remote Sensing, 2024, 62: 1-16. [\[Paper link\]](#) [\[Code\]](#)
4. Qiong Ran, Qihui Wang, Ke Zheng, **Jiaxin Li**. Multiscale Attention Spatiotemporal Fusion Model Based on Pyramidal Network Constraints[J]. IEEE Geoscience and Remote Sensing Letters, 2024, 21:1-5. [\[Paper link\]](#)
5. Haoyang Yu, Zhixin Ling, Ke Zheng, Lianru Gao, **Jiaxin Li**, Jocelyn Chanussot. Unsupervised Hyperspectral and Multispectral Image Fusion With Deep Spectral-Spatial Collaborative Constraint[J]. IEEE Transactions on Geoscience and Remote Sensing, 2024, 62: 1-16. [\[Paper link\]](#) [\[Paper link\]](#)

2023

1. **Jiaxin Li**, Ke Zheng, Zhi Li, Lianru Gao, Xiuping Jia. X-shaped Interactive Autoencoders with Cross-Modality Mutual Learning for Unsupervised Hyperspectral Image Super-resolution[J]. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-17. [\[Paper link\]](#) [\[Code\]](#) [\[ESI Highly Cited Papers\]](#)
2. Lianru Gao, **Jiaxin Li**, Ke Zheng, Xiuping Jia. Enhanced Autoencoders with Attention-embedded Degradation Learning for Unsupervised Hyperspectral Image Super-resolution[J]. IEEE Transactions on Geoscience and Remote Sensing, 2023, 61, 1-17. [\[Paper link\]](#) [\[Code\]](#) [\[ESI Highly Cited Papers\]](#)
3. **Jiaxin Li**, Ke Zheng, Wengu Liu, Zhi Li, Haoyang Yu, Li Ni. Model-Guided Coarse-to-Fine Fusion Network for Unsupervised Hyperspectral Image Super-Resolution[J]. IEEE Geoscience and Remote Sensing Letters, 2023, 20:1-5. [\[Paper link\]](#) [\[Code\]](#) [\[ESI Highly Cited Papers\]](#)

4. Bing Zhang, Lianru Gao, **Jiaxin Li**, Danfeng Hong, Ke Zheng. Advances and prospects in hyperspectral and multispectral remote sensing image super-resolution fusion[J]. Acta Geodaetica et Cartographica Sinica, 2023, 52(7), 1074-1089. [\[Paper link\]](#)

5. Minghua Wang, Danfeng Hong, Zhu Han, **Jiaxin Li**, Jing Yao, Lianru Gao, Bing Zhang, Jocelyn Chanussot. Tensor decompositions for hyperspectral data processing in remote sensing: A comprehensive review[J]. IEEE Geoscience and Remote Sensing Magazine, 2023. [\[Paper link\]](#) [\[ESI Highly Cited Papers\]](#)

6. Chunyu Zhu, Shangqi Deng, **Jiaxin Li**, Ying Zhang, Liwei Gong, Liangbo Gao, Na Ta, Shengbo Chen, Qiong Wu. Hyperspectral and multispectral remote sensing image fusion using SwinGAN with joint adaptive spatial-spectral gradient loss function[J]. International Journal of Digital Earth, 2023, 16(1): 3580-3600. [\[Paper link\]](#)

2022

1. **Jiaxin Li**, Danfeng Hong, Lianru Gao, Jing Yao, Ke Zheng, Bing Zhang, Jocelyn Chanussot. Deep learning in multimodal remote sensing data fusion: A comprehensive review[J]. International Journal of Applied Earth Observation and Geoinformation, 2022, 112: 102926. [\[Paper link\]](#) [\[ESI Highly Cited Papers\]](#)

2. **Jiaxin Li**, Ke Zheng, Jing Yao, Lianru Gao, Danfeng Hong. Deep unsupervised blind hyperspectral and multispectral data fusion[J]. IEEE Geoscience and Remote Sensing Letters, 2022, 19: 1-5. [\[Paper link\]](#) [\[Code\]](#) [\[ESI Highly Cited Papers\]](#)

会议

2023

1. **Jiaxin Li**, Ke Zheng, Ni L, Lianru Gao. A New Unsupervised Network for Hyperspectral and Multispectral Image Fusion[C]. 2023 13th Workshop on Hyperspectral Imaging and Signal Processing: Evolution in Remote Sensing (WHISPERS). IEEE, 2023: 1-5. [\[Paper link\]](#)

2. **Jiaxin Li**, Ke Zheng, Lianru Gao, Li Ni. Interactive Autoencoders With Degradation Constraint For Hyperspectral Super-Resolution[C]. IGARSS 2023-2023 IEEE International Geoscience and Remote Sensing Symposium. IEEE, 2023: 7447-7450. [\[Paper link\]](#)

3. **Jiaxin Li**, Ke Zheng, Ni L, Lianru Gao. Dual U-Nets autoencoders for unsupervised hyperspectral image super-resolution[C]. International Conference on Remote Sensing, Mapping, and Geographic Systems (RSMG 2023). SPIE, 2023, 12815: 132-137. [\[Excellent PAPERS Award\]](#) [\[Paper link\]](#)

4. Minghua Wang, Bing Zhang, **Jiaxin Li**, Longfei Ren, Jocelyn Chanussot. A Feature Fusion-Based Transformer Network for Hyperspectral Super-Resolution[C]. 2023 13th Workshop on Hyperspectral Imaging and Signal Processing: Evolution in Remote Sensing (WHISPERS). IEEE, 2023: 1-5. [\[Paper link\]](#)

5. Haoyang Yu, Zhixin Ling, Ke Zheng, **Jiaxin Li**, Siqi Liang, Lianru Gao. Unsupervised Dynamic Convolutional Neural Network Model for Hyperspectral and Multispectral Image Fusion[C]//IGARSS 2023-2023 IEEE International Geoscience and Remote Sensing Symposium. IEEE, 2023: 6270-6273. [\[Paper link\]](#)

编委工作

副主编	American Journal of Remote Sensing,2025.07-2027.07
青年编委	GIScience,2025.08-2028.08
客座编委: Recent Advances in Hyperspectral Remote Sensing	Remote Sensing, 2024.06-2025.01

学术活动

分论坛主席: Hyperspectral Image Processing	ICCVIT 2025, Baoding, China, 2025.10.31-2025.11.02
分论坛主席: Workshop on Remote Sensing Image Processing	MVIPIT 2025, Shenyang, China, 2025.9.27-2025.9.29

审稿人

担任 30 多个期刊的独立审稿人, 包括但不限于:

- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
- IEEE Transactions on Image Processing (TIP)
- IEEE Transactions on Geoscience and Remote Sensing (TGRS)
- IEEE Transactions on Cybernetics (TCYB)

- IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)
- Engineering Applications of Artificial Intelligence (EAAI)
- IEEE Transactions on Multimedia (TMM)
- IEEE Transactions on Instrumentation & Measurement (TIM)
- Information Fusion (IF)
- International Journal of Computer Vision (IJCV)
- IEEE Signal Processing Letters (SPL)
- Knowledge-Based Systems (KBS)
- Transactions on Audio, Speech and Language Processing (TASL)
- ...

荣誉获奖

北京市普通高等学校优秀毕业生（当年空天院博士共 17 位）	2025.06
朱李月华奖学金（当年空天院博士共 6 位）	2024.12
中国科学院院长优秀奖（当年空天院博士共 9 位）	2024.07
博士研究生国家奖学金（当年空天院博士共 18 位）	2023.12
空天院企业冠名奖学金	2022.12
优秀共青团员	2023、2024、2025
三好学生	2022、2023
重庆市普通高校优秀本科毕业生	2020.06
本科生国家奖学金	2019.11
本科生国家奖学金	2018.11
本科生国家奖学金	2017.11