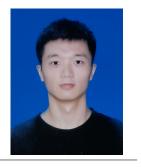
## 何江

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## 教育经历

武汉大学

西南交通大学

测绘学院: 摄影测量与遥感专业, 跨校保研, 硕博连读在读

导师: 袁强强、张良培教授

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2018.09 - 2024.06

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湖北武汉

2014.09 - 2018.06

) 地球科学与环境工程学院:遥感科学与技术专业,工学学士

研究方向

• 遥感图像处理: 多光谱图像处理, 高光谱图像处理, 遥感影像质量改善

• **计算机视觉**: 图像超分辨率,图像融合,底层视觉处理任务

• 人工智能: 深度学习,变分优化

期刊论文(11篇)

• SCI Q1 TOP, IF=17.564: J. He, Q. Yuan\*, J. Li\*, and L. Zhang, "PoNet: A universal physical optimization-based spectral super-resolution network for arbitrary multispectral images," *Information Fusion*, vol. 80, pp. 205-225, 2022.

- SCI Q1 TOP, CCF B类, IF=14.255: J. He, J. Li\*, Q. Yuan\*, H. Shen, and L. Zhang, "Spectral Response Function-Guided Deep Optimization-Driven Network for Spectral Super-Resolution," *IEEE Transactions on Neural Networks and Learning Systems*, vol. 33, no. 9, pp. 4213-4227, 2022.
- SCI Q1 TOP, IF=7.672: J. He, Q. Yuan, J. Li\*, Y. Xiao, X. Liu, and Y. Zou, "DsTer: A dense spectral transformer for remote sensing spectral super-resolution," *International Journal of Applied Earth Observation and Geoinformation*, vol. 109, pp. 102773, 2022.
- SCI Q1 TOP, CCF B类, IF=8.125: J. He, Q. Yuan\*, J. Li, and L. Zhang, "A Knowledge Optimization-driven Network with Normalizer-Free Group ResNet Prior for Remote Sensing Image Pansharpening," *IEEE Transactions on Geoscience and Remote Sensing*, vol. 60, pp. 1-16, 2022, Art no. 5410716.
- SCI Q2, IF=4.848: J. He, J. Li\*, Q. Yuan, H. Li, and H. Shen, "Spatial-spectral Fusion in Different Swath Widths by a Recurrent Expanding Residual Convolutional Neural Network," Remote Sensing, vol. 11, no. 19, 2203, 2019.
- EI, 北大核心: 何江, 李杰, 袁强强\*. 面向多光谱卫星成像的广义光谱超分辨率. 光子学报, vol. 52, no. 2, pp. 0210002, 2023.
- EI, 北大核心, 邀稿综述, 学生一作: 张良培\*, 何江, 杨倩倩, 肖屹, 袁强强\*. 数据驱动的多源遥感信息融合研究进展. 测绘学报, vol. 51, no. 7, pp. 1317-1337, 2022.
- SCI Q2, IF=5.343, 学生二作: X. Jin, J. He, Y. Xiao and Q. Yuan, "Learning a Local-Global Alignment Network for Satellite Video Super-Resolution," *IEEE Geoscience and Remote Sensing Letters*, in press, 2023.
- SCI Q1 TOP, IF=7.672, 学生二作, ESI高被引论文: Y. Xiao, Q. Yuan\*, J. He, Q. Zhang, J. Sun, X. Su, J. Wu, and L. Zhang, "Space-time super-resolution for satellite video: A joint framework based on multi-scale spatial-temporal transformer," International Journal of Applied Earth Observation and Geoinformation, vol. 108, pp. 102731, 2022.
- SCI Q1 TOP, IF=13.93, 合作综述, 唯一学生: L.-J. Deng, G. Vivone\*, M. E. Paoletti, G. Scarpa, J. He, Y. Zhang, J. Chanussot, and A. Plaza, "Machine Learning in Pansharpening: A Benchmark, From Shallow to Deep Networks," *IEEE Geoscience and Remote Sensing Magazine*, in press, 2022.
- SCI Q1 TOP, IF=10.75: Y. Xiao, Y. Wang, Q. Yuan\*, J. He, and L. Zhang, "Generating a long-term (2003-2020) hourly 0.25° global PM2.5 dataset via spatiotemporal downscaling of CAMS with deep learning (DeepCAMS)," Science of The Total Environment, vol. 848, pp. 157747, 2022.

## 会议论文(4篇)

- EI, Oral: J. He, J. Li\* and Q. Yuan, "Data-Driven and Model-Driven Spectral Superresolution Algorithms: Combination, Analysis and Application for Classification," *Proceeding of the IEEE International Geoscience and Remote Sensing Symposium*, in Hawaii, USA, pp. 2667-2670, 2020.
- EI, 学生二作: J. Gao, J. Li\*, Q. Yuan\*, J. He, X. Su, "Self-supervised Hyperspectral and Multispectral Image Fusion in Deep Neural Network," International Conference on Image and Graphics, 425-436, 2021.
- EI, Oral: S. Wang, Y. Tang, X. Liao, J. He, and etal., "An Ensemble Learning Approach with Multi-depth Attention Mechanism for Road Damage Detection," 2022 IEEE International Conference on Big Data, pp. 6439-6444, 2022.
- CVPR Workshop: B. Arad, R. Timofte, R. Yahel, N. Morag, A. Bernat, others, J. He, and others, "NTIRE 2022 Spectral Recovery Challenge and Dataset," Proceeding of the IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops, 2022.

### 科研项目

#### 国家自然科学基金-优青项目(遥感信息处理与应用)

(2020.01-2022.12)

- 担任技术骨干, 主研高光谱图像光谱重建算法部分

国家自然科学基金-面上项目(耦合变分模型与深度先验的视频遥感图像空谱分辨率增强方法研究)

(2020.01-2023.12)

- 担任研究骨干, 主研变分模型与深度先验的耦合过程并研究遥感影像光谱增强算法

国家自然科学基金-面上项目(模型驱动与数据驱动耦合的高时-空-谱融合方法研究)

(2020.1-2023.12)

- 担任研究骨干, 主研数据与模型驱动耦合过程并对其在空谱融合中的可能进行探索

湖北省杰出青年科学基金项目(面向洪涝灾害动态监测的卫星视频数据超分辨率重建)

(2020.01-2022.12)

- 担任技术骨干, 主研光谱超分辨率重建算法

国家自然科学基金青年基金项目(不同幅宽遥感影像的空-谱分辨率融合方法研究)

(2018.01-2020.12)

- 担任研究骨干, 主研基于深度学习的幅-空-谱一体化融合算法

#### 荣誉奖项

- 武汉大学研究生学术创新校长奖(学院十年来首个获奖者) 2022.10
- 武汉大学研究生英诺卓越奖学金(全校仅8人) 2022.10
- 武汉大学"王之卓创新人才奖"特等奖(信息学部仅3人) 2023.03
- 武汉大学研究生国家奖学金 2020.10
- 武汉大学"十大学术之星"入围奖 2022.12
- 武汉大学优秀研究生标兵 2022.12
- 武汉大学学业奖学金一等奖 (2019年度; 2020年度; 2022年度)
- 武汉大学优秀研究生 2020.05
- 西南交通大学优秀本科毕业生 2018.05

## 学术服务

#### 期刊审稿人:

- Information Fusion (INFFUS)
- ISPRS Journal of Photogrammetry and Remote Sensing (ISPRS P&RS)
- IEEE Transactions on Geoscience and Remote Sensing (TGRS)
- IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (J-STARS)
- IEEE Geoscience and Remote Sensing Letters (GRSL)
- Computer Methods and Programs in Biomedicine (CMPB)
- Computer Vision and Image Understanding (CVIU)
- Computational Intelligence and Neuroscience (CIN)
- IEEE Access

## 个人陈述

何江,1996年生,四川达州人,武汉大学博士研究生。主要从事遥感图像处理,计算机视觉任务等方面的研究工作。参研多个国家自然科学基金;发表论文15篇,在INF-FUS,IEEE TNNLS,IEEE GRSM,JAG,IEEE TGRS等图像处理和遥感信息处理领域国际顶级期刊发表SCI论文共9篇(SCI一区TOP论文7篇);多次参加国内外学术会议,发表会议论文3篇。受邀担任INF-FUS、ISPRS、IEEE TGRS等9个国际期刊的审稿人。获得过武汉大学研究生学术创新校长奖、"王之卓创新人才奖"特等奖、研究生国家奖学金、武汉大学优秀研究生标兵等多项荣誉。