

# Yang Liu

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## Education

Xi'an Jiaotong University, Shaanxi, China	Sep 2022 – Present
Master of Software Engineering (Expected in Jul 2025)	
GPA: 3.73/4.0, National scholarship	
Northwest A&F University, Shaanxi, China	Sep 2018 – Jul 2022
Bachelor of Software Engineering	
GPA: 3.59/4.0, First-class scholarship	

## Publications

<i>Spectral Aggregation Cross-Square Transformer for Hyperspectral Image Denoising</i>	Jun 2023 – Feb 2024
<ul style="list-style-type: none"><li>A novel self-attention mechanism has been devised, focusing on boosting the data exchange across Hyperspectral Images (HSIs) to grasp the comprehensive spatial-spectral context post window segmentation.</li><li><i>ICPR2024</i>   Yang Liu, Yantao Ji, JiaHua Xiao, Yu Guo, Peilin Jiang, Haiwei Yang, Fei Wang</li></ul>	
<i>HSIDMamba: Exploring Bidirectional State-Space Models for Hyperspectral Denoising</i>	Feb 2024 – present
<ul style="list-style-type: none"><li><b>First to introduce</b> a simple yet effective Bidirectional State-Space Model for HSI denoising, thereby devising a novel architecture distinct from CNNs and transformers.</li><li><i>Under Reversion</i>   Yang Liu, JiaHua Xiao, Xiang Song, Yu Guo, Peilin Jiang, Fei Wang</li></ul>	
<i>Region-Aware Sequence-to-Sequence Learning for Hyperspectral Denoising</i>	Jul 2023 – Jan 2024
<ul style="list-style-type: none"><li>Introduce an innovative spatial spectral region sensing module RASeq2Seq, uniquely attuned to semantically diverse regions, which amplifies the potential of Seq2Seq learning for spectral analysis.</li><li><i>ECCV2024</i>   JiaHua Xiao, Yang Liu, Xing Wei</li></ul>	
<i>Bridging Fourier and Spatial-Spectral Domains for Hyperspectral Image Denoising</i>	Aug 2023 – Feb 2024
<ul style="list-style-type: none"><li>Highlight that after converting HSI into the time-frequency domain, noise and spectral reflection traits predominantly manifest in the amplitude, while the phase retains crucial structural image information.</li><li><i>ACMMM2024</i>   JiaHua Xiao, Yang Liu, Xing Wei</li></ul>	

## Grants and Awards

National Scholarship of China	2023, 2024
First class scholarship of Shenzhen Stock Exchange	2023
Outstanding Graduate Student	2023, 2024
Merit Student	2019, 2020, 2021

## Leadership & Activities

Table Tennis Team Leader of College of Information Engineering, NWAUFU	Aug 2019 – Sep 2021
Monitor of Software Engineering Class 2, NWAUFU	Aug 2018 – Sep 2022

## Skills

- Adept in Python, C++, Linux, Pytorch, Matlab, Qt.
- Language: Chinese Mandarin (Native); IELTS: 6.5; GRE: 319(V152, Q167, AW3).
- Hobbies: Table tennis, Music, Cycling.