

EDUCATION	The State Key Lab. LIESMARS, Wuhan University	Wuhan, China
	<i>M.Sc. in Cartography and Geographic Information Systems</i> 2023 - 2026 (<i>expected</i>) <ul style="list-style-type: none"> GPA: 3.55/4.00, Average Score: 89.69, IELTS: 7.0(6.0) Advisor: Prof. Xianwei Zheng Research area: Computer Vision and Geographical 3D Reconstruction 	
	School of Remote Sensing and Information Engineering, Wuhan U	Wuhan, China
	<i>B.Eng. in Remote Sensing Science and Technology</i> 2019 - 2023 <ul style="list-style-type: none"> GPA: 3.75/4.00, Average Score: 88.90. 	
PUBLICATIONS	1. Xu Pan, Zimin Xia, Xianwei Zheng. Scale-aware Co-visible Region Detection for Image Matching . <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2025.	
	<ul style="list-style-type: none"> Addressed large scale gaps in image matching via a hierarchical framework with Scale Head Attention for robust cross-scale correlation, achieving up to +8.41% precision gain over benchmarks. 	
	2. Xu Pan, Qiyuan Ma, Jintao Zhang, Xianwei Zheng. SAMatcher: Segment Anything Co-Visible for Robust Feature Matching . (<i>In Preparation</i>), 2026.	
	<ul style="list-style-type: none"> Enhances image matching under scale variation by leveraging SAM priors to detect semantically consistent co-visible segments and constrain hierarchical matching. 	
PROJECTS	SCoDe	
	<i>Github Repo: github.com/TwSphinx54/SCoDe</i> 2023.10 - 2024.03	
	Intelligent Interpretation Platform for Remote Sensing Images Based on Baidu PaddlePaddle	
	<i>Github Repo: github.com/TwSphinx54/I2RSI</i> 2022.03 - 2024.01	
INTERNSHIPS	A*STAR - Centre for Frontier AI Research (CFAR) Singapore	2025.08 - present
	<ul style="list-style-type: none"> Pioneered a spatial prior for flow-based VLA models for complex environments, implicit spatial awareness that enhances cross-modal grounding and improves spatial reasoning over challenging scenes. Designed a Flow-Matching-based reinforcement learning framework, enabling differentiable trajectory optimization with trustworthy dense action rewarding and achieving more robust vision-language-action alignment. 	
	Baidu, Inc. - Intl. Tech R&D Dept. Shenzhen, China	2024.12 - 2025.03
	<ul style="list-style-type: none"> Developed a novel DiT-based video generation framework with key-frame conditioning for controllable, infinite-length synthesis. Improved the visual fidelity of rendered text in image generation by designing specialized attention mechanisms. Contributed to the SynClub AI chat app by evaluating SOTA image generation models and optimizing text-to-image components for better performance and quality. 	

ACADEMIC ACTIVITIES	2025 Annual Conference of the Chinese Society for Geodesy, Photogrammetry and Cartography (CSGPC), Commission on Photogrammetry and Remote Sensing <i>Kunming, China</i> 2025.07.28 - 2025.07.30	
AWARDS AND HONORS	<ul style="list-style-type: none"> • Outstanding Graduate Student, Wuhan University 2025.11 • Graduate Academic Excellence Scholarship, Wuhan University 2025.11 • Graduate Academic Excellence Scholarship, Wuhan University 2024.11 • Outstanding Student Leader, Wuhan University 2024.10 • Outstanding Student Club Leader, Wuhan University 2024.08 • Active Contributor to Social Activities, School of Remote Sensing and Information Engineering, Wuhan University 2023.05 • National Second Prize, China Software Cup College Student Software Design Competition 2022.08 • Honorable Mention, Mathematical Contest In Modeling 2022.03 • Third Prize, Asia and Pacific Mathematical Contest in Modeling 2021.12 • First Prize in Hubei Division, China Undergraduate Mathematical Contest in Modeling 2021.10 • Outstanding Student, Wuhan University 2021.09 • Bronze Medal, China Collegiate Algorithm Design & Programming Challenge Contest 2021.03 • Second Prize in Final, Translation & Interpreting Contest of Hubei Province 2020.05 	
SKILLS	Languages: Mandarin, English (IELTS 7.0). Programming: Python, C++, MATLAB, HTML, CSS, JavaScript, C#, SQL, R. Soft Skills: Leadership, Project Management, Event Management, Writing, Public Speaking.	
CERTIFICATES	System Integration Project Management Engineer <i>Qualification Certificate of Computer and Software Technology Proficiency</i> Certificate of Level 4 in Network Engineer <i>National Computer Rank Examination</i> Certificate of Level 3 in Network Technology <i>National Computer Rank Examination</i> Certificate of Level 3 in Database Technology <i>National Computer Rank Examination</i>	
VOLUNTEER EXPERIENCE	Chairman of: The 22nd LIESMARS Graduate Student Union. Director of: GeoScience Café Operation Center. Volunteer of: 2023 International Graduate Workshop on Geo-Informatics, The 21st China Ocean Color Conference.	