

EDUCATION	<b>State Key Lab. LIESMARS, Wuhan University</b>	Wuhan, China
	<p><i>M.Sc. in Cartography and Geographic Information Systems</i> 2023 - 2026 (expected)</p> <ul style="list-style-type: none"> <li>GPA: 3.55/4.00, Average Score: 89.40, IELTS: 7.0(6.0)</li> <li>Advisor: Prof. Xianwei Zheng</li> <li>Research area: Computer Vision and 3D Reconstruction</li> </ul>	
	<b>School of Remote Sensing and Information Engineering, Wuhan U</b>	Wuhan, China
	<p><i>B.Eng. in Remote Sensing Science and Technology</i> 2019 - 2023</p> <ul style="list-style-type: none"> <li>GPA: 3.75/4.00, Average Score: 88.90.</li> </ul>	
PUBLICATIONS	<ol style="list-style-type: none"> <li><b>Xu Pan</b>, Zimin Xia, Xianwei Zheng. <b>Scale-aware Co-visible Region Detection for Image Matching</b>. <i>ISPRS Journal of Photogrammetry and Remote Sensing (JCR Q1 2/98, IF12.2)</i>, 2025. <a href="https://doi.org/10.1016/j.isprsjprs.2025.08.015">https://doi.org/10.1016/j.isprsjprs.2025.08.015</a> <ul style="list-style-type: none"> <li>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.</li> </ul> </li> <li><b>Xu Pan</b>, Qiyuan Ma, Jintao Zhang, Xianwei Zheng. <b>SAMatcher: Co-Visibility Modeling with Segment Anything for Robust Feature Matching</b>. <i>IEEE Transactions on Geoscience and Remote Sensing (In Preparation)</i>, 2026.</li> <li><b>Xu Pan</b>, Zhenglin Wan, Xingrui Yu. <b>Spatially-Aware Reinforcement Learning for Flow-Matching Vision-Language-Action Models</b>. <i>(In Preparation)</i>, 2026.</li> </ol>	
PROJECTS	<b>Intelligent Interpretation Platform for Remote Sensing Images Based on Baidu PaddlePaddle</b>	
	<i>Github Repo: <a href="https://github.com/TwSphinx54/I2RSI">github.com/TwSphinx54/I2RSI</a></i>	2022.03 - 2022.08
INTERNSHIPS	<b>A*STAR - Centre for Frontier AI Research (CFAR)   Singapore</b>	2025.08 - present
	<ul style="list-style-type: none"> <li>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.</li> <li>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.</li> </ul>	
	<b>Baidu, Inc. - Intl. Tech R&amp;D Dept.   Shenzhen, China</b>	2024.12 - 2025.03
	<ul style="list-style-type: none"> <li>Developed a novel DiT-based video generation framework with key-frame conditioning for controllable, infinite-length synthesis.</li> <li>Improved the visual fidelity of rendered text in image generation by designing specialized attention mechanisms.</li> <li>Contributed to the <b>SynClub</b> AI chat app by evaluating SOTA image generation models and optimizing text-to-image components for better performance and quality.</li> </ul>	

ACADEMIC ACTIVITIES	2025 Annual Academic Conference on Photogrammetry and Remote Sensing, Chinese Society for Geodesy, Photogrammetry and Cartography (CSGPC) <i>Kunming, China</i>		2025.07.28 - 2025.07.30
AWARDS AND HONORS	<ul style="list-style-type: none"> <li>• <b>Outstanding Graduate Student</b>, Wuhan University</li> <li>• <b>Graduate Academic Excellence Scholarship</b>, Wuhan University</li> <li>• <b>Graduate Academic Excellence Scholarship</b>, Wuhan University</li> <li>• <b>Outstanding Student Leader</b>, Wuhan University</li> <li>• <b>Outstanding Student Club Leader</b>, Wuhan University</li> <li>• <b>Active Contributor to Social Activities</b>, School of Remote Sensing and Information Engineering, Wuhan University</li> <li>• <b>Wuhan University Class C Scholarship</b>, Wuhan University</li> <li>• <b>National Second Prize</b>, China Software Cup College Student Software Design Competition</li> <li>• <b>Honorable Mention</b>, Mathematical Contest In Modeling</li> <li>• <b>Third Prize</b>, Asia and Pacific Mathematical Contest in Modeling</li> <li>• <b>First Prize in Hubei Division</b>, China Undergraduate Mathematical Contest in Modeling</li> <li>• <b>Outstanding Student</b>, Wuhan University</li> <li>• <b>Bronze Medal</b>, China Collegiate Algorithm Design &amp; Programming Challenge Contest</li> <li>• <b>Second Prize in Final</b>, Translation &amp; Interpreting Contest of Hubei Province</li> </ul>		2025.11 2025.11 2024.11 2024.10 2024.08 2023.05 2022.10 2022.08 2022.03 2021.12 2021.10 2021.09 2021.03 2020.05
SKILLS	<b>Languages:</b> Mandarin, English (IELTS 7.0). <b>Programming:</b> Python, C++, MATLAB, HTML, CSS, JavaScript, C#, SQL, R. <b>Soft Skills:</b> Leadership, Project Management, Event Management, Writing, Public Speaking.		
CERTIFICATES	<b>System Integration Project Management Engineer</b> <i>Qualification Certificate of Computer and Software Technology Proficiency</i> <b>Certificate of Level 4 in Network Engineer</b> <i>National Computer Rank Examination</i> <b>Certificate of Level 3 in Network Technology</b> <i>National Computer Rank Examination</i> <b>Certificate of Level 3 in Database Technology</b> <i>National Computer Rank Examination</i>		
VOLUNTEER EXPERIENCE	<b>Chairman of:</b> The 22nd LIESMARS Graduate Student Union. <b>Director of:</b> GeoScience Café Operation Center. <b>Volunteer of:</b> 2023/2024 International Graduate Workshop on Geo-Informatics, The 21st China Ocean Color Conference.		