

## EDUCATION

<b>State Key Lab. LIESMARS, Wuhan University</b> <i>M.Sc. in Cartography and Geographic Information Systems</i>	Wuhan, China 2023.09 - 2026.06
• GPA: 3.55/4.00, Average Score: 89.40/100, IELTS: 7.0(6.0) • Research area: Computer Vision and 3D Reconstruction   Supervisor: Prof. Xianwei Zheng	

<b>School of Remote Sensing and Information Engineering, Wuhan University</b> <i>B.Eng. in Remote Sensing Science and Technology</i>	Wuhan, China 2019.09 - 2023.06
• GPA: 3.75/4.00, Average Score: 88.90/100.	

## PUBLICATIONS

1. Xu Pan, Zimin Xia, Xianwei Zheng. Scale-aware Co-visible Region Detection for Image Matching. *ISPRS Journal of Photogrammetry and Remote Sensing (JCR Q1 2/98, IF12.2)*, 2025. <https://doi.org/10.1016/j.isprsjprs.2025.08.015>
2. Xu Pan, Qiyuan Ma, Jintao Zhang, Xianwei Zheng. SAMatcher: Co-Visibility Modeling with Segment Anything for Robust Feature Matching. *IEEE Transactions on Geoscience and Remote Sensing (In Preparation)*, 2026.
3. Xu Pan, Zhenglin Wan, Xingrui Yu. Spatially-Aware Reinforcement Learning for Flow-Matching Vision-Language-Action Models. *(In Preparation)*, 2026.

## PROJECTS

<b>Intelligent Interpretation Platform for Remote Sensing Images Based on Baidu PaddlePaddle</b>	2022.03 - 2022.08
⌚ TwSphinx54/I2RSI	
<b>Web-based Global Natural Disaster Assessment System</b>	2022.05 - 2022.09
⌚ TwSphinx54/GNDAS	

## INTERNSHIPS

<b>A*STAR - Centre for Frontier AI Research (CFAR)   Singapore</b>	2025.08 - present
• 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 rewarding and achieving more robust vision-language-action alignment.	
<b>Baidu, Inc. - International Technology R&amp;D Department   Shenzhen, China</b>	2024.12 - 2025.03
• 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

<b>2025 Annual Conference on Photogrammetry and Remote Sensing, Chinese Society for Geodesy, Photogrammetry and Cartography (CSGPC)   Kunming, China</b>	2025.07.28 - 07.30
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## AWARDS AND HONORS

- **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
- **Wuhan University Class C Scholarship**, Wuhan University 2022.10
- **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**

*Qualification Certificate of Computer and Software Technology Proficiency*

**Certificate of Level 4 in Network Engineer**

*National Computer Rank Examination*

**Certificate of Level 3 in Network Technology**

*National Computer Rank Examination*

**Certificate of Level 3 in Database Technology**

*National Computer Rank Examination*

## VOLUNTEER EXPERIENCE

**Chairman of:** The 22nd LIESMARS Graduate Student Union.

**Director of:** GeoScience Café Operation Center.

**Volunteer of:** 2023/2024 International Graduate Workshop on Geo-Informatics,

The 21st China Ocean Color Conference.