

EDUCATION

Wuhan University State Key Lab. LIESMARS <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	
Wuhan University School of Remote Sensing and Information Engineering <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, Zhenglin Wan, Xingrui Yu, Xianwei Zheng, Youkai Ke, Ming Sun, Rui Wang, Ziwei Wang, Ivor Tsang. **SA-VLA: Spatially-Aware Reinforcement Learning for Flow-Matching Vision-Language-Action Models.** (*Under Review at ICML*), 2026. Available at <https://arxiv.org/abs/2602.00743>.
2. Xu Pan, Zimin Xia, Xianwei Zheng. **Scale-aware Co-visible Region Detection for Image Matching.** *ISPRS Journal of Photogrammetry and Remote Sensing (JCR Q1, IF 12.2)*, 2025. <https://doi.org/10.1016/j.isprsjprs.2025.08.015>
3. Ming Sun, Rui Wang, Xingrui Yu, Lihua Jing, Hangyu Du, Zhenglin Wan, Xu Pan, Ivor Tsang. **SleeperVLA: Towards Backdoor-Based Ownership Verification for Vision-Language-Action Models.** (*Under Review at ICML*), 2026.
4. Xu Pan, Qiyuan Ma, Jintao Zhang, He Chen, Xianwei Zheng. **SAMatcher: Co-Visibility Modeling with Segment Anything for Robust Feature Matching.** *IEEE Transactions on Geoscience and Remote Sensing (Under Review)*, 2026.
5. Jiashen Huang, Xu Pan. **The Institutional Filter: How Trust Shapes Inequalities Between Domestic and Global AI Models.** *Under Review at IAMCR Conference*, 2026.

PROJECTS

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

EXPERIENCES

Research Assistant @ A*STAR Centre for Frontier AI Research (CFAR) Singapore	2025.08 - 2026.01
• Pioneered spatially-aware reinforcement learning adaptation for flow-based VLA models, preserving implicit spatial inductive bias through fused geometric prior and preventing degradation under distribution shifts.	
• Designed geometry-aligned dense rewards and spatially-conditioned exploration, enabling stable RL fine-tuning, superior zero-shot spatial generalization, and robust transferable behaviors in complex manipulation scenes.	
Research Intern @ Baidu, Inc. International Technology R&D Dept. Shenzhen, China	2024.12 - 2025.03
• Developed DiT-based framework for controllable, arbitrarily long video generation via key-frame conditioning.	
• Improved the visual fidelity of rendered text in image generation by designing specialized attention mechanisms.	
• Contributed to the SynClub AI chat app through assessment of frontier multimodal generative models and optimization of text-to-image/video modules, delivering improved performance and higher-quality outputs.	

ACADEMIC ACTIVITIES

2025 Annual Conference on Photogrammetry and Remote Sensing, Chinese Society for Geodesy, Photogrammetry and Cartography (CSGPC) | Kunming, China

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 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 Organization, Public Speaking, Design & Editing

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

SERVICE AND LEADERSHIP

- | | |
|------------------|---|
| Member | ISPRS Student Consortium (ISPRS SC) |
| Chairman | The 22nd LIESMARS Graduate Student Union |
| Director | GeoScience Café Operation Center |
| Volunteer | 2023/2024 International Graduate Workshop on Geo-Informatics
The 21st China Ocean Color Conference |