Xu Pan M.Sc.

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EDUCATION

The State Key Lab. LIESMARS, Wuhan University   Wuhan, China

M.Sc. in Cartography and Geographic Information Systems   2023 - 2026 *(expected)*
- GPA: 3.55/4.00, Average Score: 89.69, IELTS: 6.5(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

B.Eng. in Remote Sensing Science and Technology   2019 - 2023
- 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**. *ISPRS Journal of Photogrammetry and Remote Sensing*, 2025.

   - 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**. *(In Preparation)*, 2026.

   - Enhances image matching under scale variation by leveraging SAM priors to detect semantically consistent co-visible segments and constrain hierarchical matching.

PROJECTS

SCoDe

Github Repo: github.com/TwSphinx54/SCoDe   2023.10 - 2024.03

Intelligent Interpretation Platform for Remote Sensing Images Based on Baidu PaddlePaddle

Github Repo: github.com/TwSphinx54/I2RSI   2022.03 - 2024.01

INTERNSHIPS

A*STAR - Centre for Frontier AI Research (CFAR) | Singapore   2025.08 -

Baidu, Inc. - Intl. Tech R&D Dept. | Shenzhen, China   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

2025 Annual Conference of the Chinese Society for Geodesy, Photogrammetry and Cartography (CSGPC), Commission on Photogrammetry and Remote Sensing

Kunming, China   2025.07.28 - 2025.07.30

AWARDS AND HONORS

- **Graduate Academic Excellence Scholarship,**
  The State Key Lab. LIESMARS, Wuhan University   2024.12
- **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   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 6.5).

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 International Graduate Workshop on Geo-Informatics,
The 21st China Ocean Color Conference.