

Jiancheng Pan

Visiting Researcher
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EDUCATION

- M.E. College of Computer Science and Technology, Zhejiang University of Technology, 2022-2025
Institute of Computer Vision, Supervised by Prof. [Cong Bai](#)
- B.E. College of Computer Information Engineering, Jiangxi Normal University, 2018-2022
MoTong-AI Studio, Supervised by Prof. [Aiwen Jiang](#)

RESEARCH EXPERIENCES

- 2025– [INSAIT](#), Sofia University “St. Kliment Ohridski”
Visiting Researcher, Supervised by Prof. [Luc Van Gool](#) and Dr. [Danda Paudel](#)
- 2023-2025 [AI4Earth Laboratory](#), Department of Earth System Science, Tsinghua University
Visiting Research Student, Supervised by Prof. [Xiaomeng Huang](#)
- 2024 Platform Facilities Research Department, Shanghai AI Laboratory
Intern, Supervised by Dr. Lei Cui

RESEARCH AREAS

I’m interested in Cutting-Edge Visual Intelligence, focusing on Multimodal Learning, Foundation Models & MLLMs, Data-centric AI, and their applications in Egocentric Vision, Earth Observation and Sustainable Development.

SELECTED PUBLICATIONS

* indicates equal contribution, † indicates corresponding author

- 2025 Jiaohao Li, **Jiancheng Pan**, Xiaomeng Huang[†]. Tracking Global Hydropower Plants to Support Sustainable Urban Planning. *AAAI Conference on Artificial Intelligence Workshops, (AAAIW)*.
- 2025 Yanxing Liu, **Jiancheng Pan**, Jianwei Yang, Tiancheng Chen, Peiling Zhou, Bingchen Zhang[†]. Diverse Instance Generation via Diffusion Models for Enhanced Few-Shot Object Detection in Remote Sensing Images. *IEEE Geoscience and Remote Sensing Letters, (IEEE GRSL, IF=4.4))*.
- 2025 Yuze Sun, Wentao Luo, Yanfei Xiang, **Jiancheng Pan**, Jiahao Li, Quan Zhang, Xiaomeng Huang[†]. Deploying Atmospheric and Oceanic AI Models on Chinese Hardware and Framework: Migration Strategies, Performance Optimization and Analysis. *Proceedings of the AAAI Conference on Artificial Intelligence, (AAAI)*.
- 2025 Jiaohao Li, **Jiancheng Pan**, Yuze Sun, Xiaomeng Huang[†]. Semantic-Aware Ship Detection with Vision-Language Integration. *The International Geoscience and Remote Sensing Symposium, (IGARSS)*.
- 2025 Yanxing Liu **Jiancheng Pan**, Bingchen Zhang[†]. Control Copy-Paste: Controllable Diffusion-Based Augmentation Method for Remote Sensing Few-Shot Object Detection. *The International Geoscience and Remote Sensing Symposium, (IGARSS)*.

- 2025 **Jiancheng Pan**, Yanxing Liu, Xiao He, Long Peng, Jiahao Li, Yuze Sun, Xiaomeng Huang[†]. Enhance Then Search: An Augmentation-Search Strategy with Foundation Models for Cross-Domain Few-Shot Object Detection. *IEEE/CVF Conference on Computer Vision and Pattern Workshops, (CVPRW)*.
- 2025 **Jiancheng Pan**, Yanxing Liu*, Yuqian Fu[†], Muyuan Ma, Jiaohao Li, Danda Pani Paudel, Luc Van Gool, Xiaomeng Huang[†]. Locate Anything on Earth: Advancing Open-Vocabulary Object Detection for Remote Sensing Community. *AAAI Conference on Artificial Intelligence, (AAAI)*, (AGU24, Oral)
- 2024 Qing Ma, **Jiancheng Pan**, Cong Bai[†]. Direction-Oriented Visual-semantic Embedding Model for Remote Sensing Image-text Retrieval. *IEEE Transactions on Geoscience and Remote Sensing*, (IF=7.5).
- 2023 **Jiancheng Pan**, Qing Ma, Cong Bai[†]. A Prior Instruction Representation Framework for Remote Sensing Image-text Retrieval. *ACM International Conference on Multimedia*, (ACMMM, Oral).
- 2023 **Jiancheng Pan**, Qing Ma[†], Cong Bai. Reducing Semantic Confusion: Scene-aware Aggregation Network for Remote Sensing Cross-modal Retrieval. *ACM International Conference on Multimedia Retrieval*, (ICMR, Oral).

HONORS AND AWARDS

- 2025 Graduate Academic Star of ZJUT (Top 10 Students)
- 2025 Outstanding Graduate (Zhejiang, China)
- 2025 INSAIT Graduate Research Fellowship (Sofia, Bulgaria)
- 2025 Runner-up in the NTIRE 2025 CD-FSOD Challenge (CVPRW 2025)
- 2024 National Scholarship (Top 1.05%)
- 2023 National Scholarship (Top 0.2%)
- 2023 ICMR Travel Award (Thessaloniki, Greece)
- 2023 Second Prize for China Postgraduate Mathematical Contest in Modelling (Top 13.36%)