

Panzhong Lu

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PROFILE

Currently engaged in several innovation and entrepreneurship projects. My research interests focus on **Multimodal Learning** and **LLM-based Agents**, with a particular emphasis on **long-context multimodal coreference resolution**.

EDUCATION

Zhejiang University & Westlake University (Joint Program) – <i>Ph.D. Student; Advisor: Prof. Yue Zhang</i>	Hangzhou, China <i>Sep. 2025 – Now</i>
Westlake University – <i>Research Assistant, School of Engineering; Supervisor: Prof. Yue Zhang</i>	Hangzhou, China <i>Apr. 2023 – Jul. 2025</i>
Tianjin University – <i>M.E. in Computer Technology; Supervisor: Prof. Meishan Zhang</i>	Tianjin, China <i>Sep. 2020 – Jan. 2023</i>
Huazhong Agricultural University – <i>B.S. in Information and Computing Sciences; Grade: 90.52 (Top 5%)</i>	Wuhan, China <i>Sep. 2016 – Jun. 2020</i>

PUBLICATIONS

- [1] Zhen Lin, Qiujie Xie, Minjun Zhu, Shichen Li, QiYao Sun, Enhao Gu, Yiran Ding, Ke Sun, Fang Guo, **Panzhong Lu**, Zhiyuan Ning, Yixuan Weng, Yue Zhang. AutoFigure-Edit: Generating Editable Scientific Illustrations via Reference-Guided Styling. *ACL 2026 (Demo)*.
- [2] Junshu Pan*, **Panzhong Lu***, Yixuan Weng*, QiYao Sun*, Fang Guo, Zijie Yang, Qiji Zhou, Yue Zhang. AiraXiv: An AI-Driven Open-Access Platform for Human and AI Scientists. *ACL 2026 (Demo)*.
- [3] Minjun Zhu, Zhen Lin, Yixuan Weng, **Panzhong Lu**, Qiujie Xie, Yifan Wei, Sifan Liu, Qiyao Sun, Yue Zhang. AutoFigure: Generating and Refining Publication-Ready Scientific Illustrations. *ICLR 2026*.
- [4] Zijie Yang, Qiji Zhou, Fang Guo, ..., **Panzhong Lu**, ..., Yue Zhang. Airalogy: AI-empowered Universal Data Digitization for Research Automation. *arXiv preprint* 2025.
- [5] Zhonghang Liu, **Panzhong Lu**, Guoyang Xie, Zhichao Lu, Wen-Yan Lin. Rethinking Unsupervised Outlier Detection via Multiple Thresholding. *ECCV 2024*.
- [6] Qiji Zhou, Ruochen Zhou, Zike Hu, **Panzhong Lu**, Siyang Gao, Yue Zhang. Image-of-Thought Prompting for Visual Reasoning Refinement in Multimodal Large Language Models. *arXiv preprint* 2024.
- [7] **Panzhong Lu**, Xin Zhang, Meishan Zhang, Min Zhang. Extending Phrase Grounding with Pronouns in Visual Dialogues. *EMNLP 2022*.

PATENTS

- [1] Yue Zhang, Zijie Yang, Fang Guo, Qiji Zhou, **Panzhong Lu**, Junshu Pan, Tian Xu. A Scientific Research Activity Management and Application Platform Supporting Multi-Disciplinary Sharing. CN202510086469.X, 2025.
- [2] Yue Zhang, Zijie Yang, Qiji Zhou, Fang Guo, Junshu Pan, **Panzhong Lu**, Tian Xu. Multimodal Scientific Research Data Recording Method, System, Terminal, and Storage Medium. CN202510086467.0, 2025.
- [3] Meishan Zhang, **Panzhong Lu** (1st student), Yueheng Sun. A Multi-Modal-Oriented Interactive Data Annotation Method and System. CN202210478381.9, 2022.
- [4] Meishan Zhang, **Panzhong Lu** (1st student), Zhichao Lin, Yueheng Sun. A Method and Device for Analyzing Human-Computer Interaction Instructions based on Multi-Modal Semantic Role Recognition. CN202210659318.5, 2022.

PROJECTS

- [1] **Voycard** 2026
 - A travel companion product offering personalized pre-trip itinerary planning, in-trip anecdotes and fun facts, and post-trip generation of unique personalized travel maps.
- [2] **CareerSim** 2026
 - A career simulation game that lets users experience the daily challenges of different professions, helping them better understand future career options and providing career guidance.
- [3] **Airalogy** 2025
 - The world's first universally cross-disciplinary platform for digitizing, automating, and accelerating scientific research. Co-lead the back-end AI API system.
- [4] **FastDetectGPT** 2025
 - Independently built the full-stack user account system (front-end & back-end), the back-end payment pipeline, and the token-billing & metering system.
- [5] **Students Online Quiz System** 2024
 - Independently designed and implemented an online quiz system with Django, deployed on a cloud server for teachers to conduct classes and students to take tests.
- [6] **Customized Virtual Digital Human** 2023
 - Employed Large Language Model, Automatic Speech Recognition, Text-to-Speech, and Talking Head Generation technologies to develop interactive, tailor-made virtual digital personas.
- [7] **Human-Computer Interaction in Simulation Environment** 2022
 - Used UAV to capture images of a simulation environment and image descriptions to direct flight to a target position. Implemented a pixel-based technique to estimate distance.
- [8] **Visual Language Navigation in Real Environment** 2021
 - Explored visual language navigation for UAV in real environment using the VLNCE model; transmitted instructions and RGB/depth images via ROS for corresponding actions.

AWARDS & ACHIEVEMENTS

National Encouragement Scholarship: Awarded in 2017 and 2018.

Scene Comedy Laughter Point Identification Competition: Third Prize, CCL 2020.

Merit Student & Excellent Student Cadre: Awarded in Tianjin / Huazhong Agricultural University.

Others: Two granted patents, two accepted ordinary conference papers. **Services:** Teaching Assistant.

SKILLS

Programming: Python, C, C++, Java, MATLAB, R, MySQL, HTML/CSS/Javascript, Shell, LaTeX

Frameworks & Technologies: Pytorch, Tensorflow; Git; ROS; Django, Flask, FastAPI

Languages: Chinese (Native), English (Fluent), IELTS Score: 6.5 (sub-score \geq 6)