

Ruiyang Zhang

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Education

University of Macau

- Ph.D. in Faculty of Science and Technology
- Advisor: Professor [Zhedong Zheng](#)

Macau SAR
Aug. 2024 - present

Fudan University

- B.S. in Computer Science and Technology

Shanghai, China
Sep. 2017 - Jun. 2021

Research Interests

- Ultra-Long-Horizon Agent, Agentic Post-Training

Selected Publications

For the full list, please refer to the [Google Scholar Page](#).

Marathoner: Ultra-Long-Horizon Autonomous Intelligence

- [Ruiyang Zhang](#), Jinpeng Ou, Yifan Xie, Jingang Zhou, Lirui Pan, Qingpei Guo, Zhedong Zheng
- In submission to ICLR 2027

VSearcher: Long-Horizon Multimodal Search Agent via Reinforcement Learning

- [Ruiyang Zhang](#), Qianguo Sun, Chao Song, Yiyang Qi, Zhedong Zheng
- NeurIPS 2026

SketchThinker-R1: Towards Efficient Sketch-Style Reasoning in Large Multimodal Models

- [Ruiyang Zhang](#)^{*}, Dongzhan Zhou^{*}, Zhedong Zheng
- ICLR 2026

Uncertainty-o: One Model-agnostic Framework for Unveiling Epistemic Uncertainty in Large Multimodal Models

- [Ruiyang Zhang](#), Hu Zhang, Hao Fei, Zhedong Zheng
- EMNLP 2026

VL-Uncertainty: Detecting Hallucination in Large Vision-Language Model via Uncertainty Estimation

- [Ruiyang Zhang](#), Hu Zhang, Zhedong Zheng
- Preprint

Harnessing Uncertainty-aware Bounding Boxes for Unsupervised 3D Object Detection

- [Ruiyang Zhang](#), Hu Zhang, Hang Yu, Zhedong Zheng
- ICCV 2025

Approaching Outside: Scaling Unsupervised 3D Object Detection from 2D Scene

- [Ruiyang Zhang](#), Hu Zhang, Hang Yu, Zhedong Zheng
- ECCV 2024

Research Experiences

Ant Group

- Research Intern, Ling Team
- Mentor: [Qingpei Guo](#)

Beijing, China
June 2026 - present

- Research Topic: Exploring and developing general pipeline for constructing ultra-long-horizon ability
- Project: [Marathoner](#)

IDEA

Shenzhen, China

Oct. 2025 - Mar. 2026

- Research Intern
- Mentor: Dr. [Yiyan Qi](#)
- Research Topic: Developing long-horizon multimodal search agent via reinforcement learning
- Project: [VSearcher](#) (NeurIPS 2026)

Shanghai AI Lab

Shanghai, China

May 2025 - Sep. 2025

- Research Intern
- Mentor: Dr. [Dongzhan Zhou](#)
- Research Topic: Leveraging RL to incentivize sketch-style reasoning in large multimodal models
- Project: [SketchThinker-R1](#) (ICLR 2026)

Honors and Awards

- **Second Prize**, China Undergraduate Mathematical Contest in Modeling (CUMCM). 2019
- **Third Class Scholarship for Outstanding Students**, Fudan University. 2018 and 2019
- **First Prize**, Chinese Mathematical Olympiad in Jiangsu Province (CMO). 2016
- **First Prize**, National Olympiad in Informatics in Jiangsu Province (NOIP). 2014 and 2015