

Rui Huang

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EDUCATION

- **University of Electronic Science and Technology of China** Chengdu, China
Bachelor of Computer Science (Everest Top Project) Sep. 2023 - Present
GPA: 3.99/4.0; Weighted Average: 95.55/100; Ranking: 1/164 (Major), 1/334 (School)

RESEARCH EXPERIENCE

- **Tencent Hunyuan (Qingyun Program)** Onsite
Research Intern advised by Tianyu Pang, focusing on World Models and Multimodal RL. Mar. 2026 - Present
- **Shanghai AI Lab** Onsite
Research Intern advised by Ganqu Cui, focusing on LLM SFT and RL. Aug. 2025 - Feb. 2026
- **The Chinese University of Hong Kong** Remote
Research Intern advised by Renrui Zhang, focusing on Image / Video Generation. Feb. 2025 - Aug. 2025

RESEARCH INTERESTS

- World Models and Embodied AI, including Robotics, Data synthesis, and Evaluation
- Agentic AI and Generative Models (e.g., LLMs, VLMs, and Diffusion Models)

PUBLICATIONS AND PROJECTS

(* Equal contribution; † Corresponding author; ‡ Project leader)

- [1] ***Diffusion Dataset Condensation: Training Your Diffusion Model Faster with Less Data***
CVPR 2026; used hundreds of A100/H200 GPUs and achieved 100× pre-training acceleration
Rui Huang*, Shitong Shao*, Zikai Zhou, Pukun Zhao, Hangyu Guo, Tian Ye, Lichen Bai, Shuo Yang, Zeke Xie†
- [2] ***Beyond Fixed Formulas: Data-Driven Linear Predictor for Efficient Diffusion Models***
CVPR 2026
Zhirong Shen*, Rui Huang*‡, Jiacheng Liu, Chang Zou, Peiliang Cai, Shikang Zheng, Zhengyi Shi, Liang Feng, Linfeng Zhang†
- [3] ***Complementary Online Learning Network for Probabilistic Load Forecasting Against Extreme Weather***
IEEE Transactions on Industrial Informatics (SCI Q1, IF: 10.2)
Rui Huang, Pengfei Zhao, Di Cao†, Weihao Hu, Qi Huang, Zhe Chen
- [4] ***Wavelet-Assisted Multi-Frequency Attention Network for Pansharpening***
AAAI 2025 Oral
Jie Huang*, Rui Huang*, Jinghao Xu, Siran Peng, Yule Duan, Liangjian Deng†
- [5] ***Can We Generate Images with CoT? Let's Verify and Reinforce Image Generation Step by Step***
Submitted to IJCV; 114 citations, 890 stars
Ziyu Guo*, Renrui Zhang*††, Chengzhuo Tong*, Zhizheng Zhao*, Rui Huang, Haoquan Zhang, Manyuan Zhang, Jiaming Liu, Shanghang Zhang, Peng Gao, Hongsheng Li†, Pheng-Ann Heng
- [6] ***UniVA: Universal Video Agents towards Next-Generation Video Intelligence***
Tech Report
Zhengyang Liang*, Daoan Zhang*, Huichi Zhou, Rui Huang, Bobo Li, Shengqiong Wu, Yuechen Zhang, Xiaohan Wang, Jiebo Luo, Lizi Liao, Hao Fei†
- [7] ***ClawMark: A Living-World Benchmark for Multi-Day, Multimodal Coworker Agents***
Tech Report; benchmarking agents on real-world hard tasks where even GPT-5.4 scores only ~56.7%
Evolvent AI Team
- [8] ***P1: Mastering Physics Olympiads with Reinforcement Learning***
Tech Report; gold-medal-level IPhO performance, surpassing Gemini 2.5 Pro, GPT-5, and Grok 4
Jiacheng Chen*, Qianjia Cheng* Rui Huang Ning Ding†, Bowen Zhou†, Peng Ye†, Ganqu Cui†
- [9] ***P1-VL: Bridging Visual Perception and Scientific Reasoning in Physics Olympiads***
Tech Report; open-source physics VLM with gold-medal-level HiPhO performance
Yun Luo*†, Futing Wang* Rui Huang Ning Ding†, Bowen Zhou†, Peng Ye†, Ganqu Cui†

HONORS AND AWARDS

- SenseTime Scholarship 2025 (awarded annually to 30 undergraduates in the field of AI from across China)
- National Scholarship for 2023/2024 Academic Year
- National Scholarship for 2024/2025 Academic Year
- National Gold Award, National College Student Career Planning Competition