Jinrui Yang

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Recent research topics

1.Foundation models pretraining: I'm co-leading a project with LAION, OpenCLIP teams to explore how to scale the CLIP training paradigm on a huge dataset (target size: 100 billion) in a compute-efficient manner.
2.Image generation: I'm focusing on a wide range of image editing tasks.

Education

University of California, Santa Cruz, CA, U.S.   2023.8 – Now
Ph.D. student in Computer Science

Sun Yat-sen University, Guangzhou, China   2019.9 – 2021.6
M.E. in Computer Technology

Sichuan University, Chengdu, China   2015.9 – 2019.6
B.E. in Software Engineering

Work Experience

Adobe Research. San Jose, USA   2024.06 – 2025.03
Research Intern
Duties included: I focus on layer-wise scene analysis and recompositing, which involves image generation, multi-layer decomposition, and re-composition. Our goal is to enable users to edit images in a way that is content-preserving and recomposition-friendly. Project page.

Tencent YouTu Lab. Shanghai, China   2021.07 – 2023.08
Researcher, Full-time
Duties included:
1) Building robust vision perception models for different business scenarios.
2) Applying large multimodal models to downstream visual tasks in the real-world.
3) Building an evaluation benchmark for multimodal large language models. Github, which is widely adopted by mainstream multimodality models(e.g., LLaVA-1.6, Qwen-VL-Max, etc).

Tencent YouTu Lab. Shanghai, China   2020.04 – 2020.10
Research Intern
Duties included: Conducted research on person re-identification, resulting in a paper accepted at ICCV 2021.

Publications

1. **Jinrui Yang**, Qing Liu, Yijun Li, Soo Ye Kim, Daniil Pakhomov, Mengwei Ren, Jianming Zhang, Zhe Lin, Cihang Xie, Yuyin Zhou. Generative Image Layer Decomposition with Visual Effects. **Submitted to CVPR 2025**. Project page.
2. **Jinrui Yang**, Xianhang Li, Druv Pai, Yuyin Zhou, Yi Ma, Yaodong Yu, Cihang Xie. Scaling White-Box Transformers for Vision. **NeurIPS 2024**. Project page.
3. **Jinrui Yang**, Jiawei Zhang, Fufu Yu, Xinyang Jiang, mengdan zhang,Xing Sun,Yingcong Chen, Wei-Shi Zheng. Learning to Know Where to See:A Visibility-Aware Approach for Occluded Person Re-identification. **ICCV 2021**. Paper.
4. **Jinrui Yang**, Wei-Shi Zheng, Qize Yang, Yingcong Chen, Qi Tian. Spatial-Temporal Graph Convolutional Network for Video-based Person Re-identification. **CVPR 2020**. Paper.
5. Chaoyou Fu, Peixian Chen, Yunhang Shen, Yulei Qin, Mengdan Zhang, Xu Lin, **Jinrui Yang**, Xiawu Zheng, Ke Li, Xing Sun, Yunsheng Wu, Rongrong Ji. MME: A Comprehensive Evaluation Benchmark for Multimodal Large Language Models. **Submitted to CVPR 2025**. Paper.
6. Yuqiao Xian, **Jinrui Yang** , Fufu Yu, Jun Zhang, Xing Sun. Graph-Based Self-Learning for Robust Person Re-identification. **WACV 2023**. Paper.
7. Jiaming Zhou, Junwei Liang, Kun-Yu Lin, **Jinrui Yang**,Wei-Shi Zheng. ActionHub: A Large-scale Action Video Description Dataset for Zero-shot ActionRecognition. **Submitted to TPAMI 2024**. Paper.

Academic Activities

Journal Reviewer: TIP, TCSVT, TMM
Conference Reviewer: ICML2024, CVPR 2024, WACV 2023.
Teaching Assistant: CSE 144 - Applied Machine Learning: Deep Learning, Winter 2024. CSE290D - Neural Computation, Fall 2025.

Honors & Awards

Four-Star Distinguished Staff, Youtu Lab, Tencent	2021
National Scholarship,by Minister of Education of China (**top 1%**)	2020