Jinrui Yang

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Recent research interests

My current research interests lie in the field of Multimodal Large Language Model and Generative Models.

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 – 2025.05

Research Intern

Project 1: Layer-wise Scene Analysis and Recomposition: Developing methods for image generation, multi-layer decomposition, and scene recomposition, resulting in a paper accepted at CVPR 2025.

Project 2: Multi-Modal, Multi-Format Generation Model: Designing a versatile generation model that supports diverse input conditions, including text, masks, and RGB masks.

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 2020.05 – 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. **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. **Arxiv**. 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. **Arxiv**. Paper.

Academic Activities

Journal Reviewer: TIP, TCSVT, TMM
Conference Reviewer: ICML2024, CVPR 2024, CVPR2025, WACV 2023, WACV 2025 .
Teaching Assistant: CSE 144 - Applied Machine Learning: Deep Learning, Winter 2024. CSE290D - Neural Computation, Fall 2025.