

# JINRUI YANG

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## RECENT RESEARCH INTERESTS

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

## EDUCATION

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**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

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**Research Intern.** San Jose, USA 2024.06 – present

### Research Intern

**Project 1: Generative Image Layer Decomposition with Visual Effects:** Designed **LayerDecomp**, a layered image decomposition method that preserves transparent visual effects and enables fine-grained editing, powered by a scalable synthetic dataset pipeline, resulting in a paper accepted at [CVPR 2025](#).

**Project 2: Unified Layer Aware Image Generation with Visual Effects:** Developing a layered image generation framework for controllable RGBA synthesis with realistic visual effects, along with a supporting dataset.

**Tencent YouTu Lab.** Shanghai, China 2021.07 – 2023.08

### Research Scientist, 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 the comprehensive evaluation benchmark for MLLMs, [MME](#), which is widely adopted by mainstream multimodality models(e.g., LLaVA family models, Qwen-VL family models, InternVL family models, 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

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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, 2023**. [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 Action Recognition. **Arxiv, 2024**. [Paper](#).

## ACADEMIC ACTIVITIES

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**Journal Reviewer:** TIP, TCSVT, TMM

**Conference Reviewer:** NeurIPS2025, CVPR2025, ICML2024, CVPR 2024, WACV 2023, WACV 2025.