Jiawei Mao

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Education

University of California, Santa Cruz 2025 – now

Ph.D student in Computer Science and Engineering. Supervised by Prof. Yuyin Zhou.

Experience

VLAA Lab, University of California, Santa Cruz. California, America 2024 – 2025

Research Intern Mentor: Prof. Yuyin Zhou

Medical Image Analysis, Image/Video Generation, Unified Multimodal Models

Prof. Hao Tang's Research Group, Peking University. Peking, China 2024 – 2024

Research Assistant Mentor: Prof. Hao Tang

Low-level Computer Vision

Publications

1. **Jiawei Mao**, Yuhan Wang, Hardy Chen, Letian Zhang, Zeyu Zheng, Zirui Wang, Cihang Xie, Yuyin Zhou: Uni-Evolve: An Evolving Training-Free Framework for Unified Understanding and Generation. Submitted to *CVPR 2026*.
2. **Jiawei Mao**, Yuhan Wang, Lifeng Chen, Can Zhao, Yucheng Tang, Dong Yang, Liangqiong Qu, Daguang Xu, Yuyin Zhou: Discrete Diffusion Models with MLLMs for Unified Medical Multimodal Generation. Submitted to *ECCV 2026*.
3. **Jiawei Mao**, Xiaoke Huang, Yunfei Xie, Yuanqi Chang, Mude Hui, Bingjie Xu, Yuyin Zhou: Story-Iter: A Training-free Iterative Paradigm for Long Story Visualization. **Accepted by *ICLR 2026***.
4. **Jiawei Mao**, Yuhan Wang, Yucheng Tang, Daguang Xu, Kang Wang, Yang Yang, Zongwei Zhou, Yuyin Zhou: MedSegFactory: Text-Guided Generation of Medical Image-Mask Pairs. **Accepted by *ICCV 2025***.
5. **Jiawei Mao**, Yu Yang, Xuesong Yin, Ling Shao, Hao Tang: AllRestorer: All-in-One Transformer for Image Restoration under Composite Degradations. **Accepted by *IEEE TPAMI 2026***.
6. **Jiawei Mao**, Rui Xu, Xuesong Yin, Yuanqi Chang, Binling Nie, Aibin Huang, Yigang Wang: POSTER++: A simpler and stronger facial expression recognition network. **Accepted by *Pattern Recognition* 2025**.
7. **Jiawei Mao**, Guangyi Zhao, Xuesong Yin, Yuanqi Chang: SwinStyleformer is a Favorable Choice for Image Inversion. **Accepted by *IEEE TCSVT 2024***.
8. **Jiawei Mao**, Yuanqi Chang, Xuesong Yin: Window Token Transformer: Can learnable window token help window-based transformer build better long-range interactions? **Accepted by *Neurocomputing 2023***.

Skills

- Mastering programming languages such as C++ and Python, with a solid programming foundation.
- Mastering deep learning frameworks such as PyTorch, Tensorflow 2.0, etc.
- Strong self-motivation and the ability to produce academic papers independently.
- Good problem-identification and problem-solving skills and the ability to keep abreast of current technology hotspots.