

JIAWEI MAO

✉ jmao32@ucsc.edu · ⚡ +1 (831) 281-6508 · 🌐 homepage · 🎓 Google Scholar

EDUCATION

University of California, Santa Cruz (UCSC) , California, America	2025 – now
<i>Ph.D student</i> in Computer Science and Engineering. Supervised by Prof. Yuyin Zhou.	
Hangzhou Dianzi University (HDU) , Hangzhou, China	2021 – 2024
<i>Master's Degree</i> in Digital Media Technology. Supervised by Prof. Xuesong Yin.	
Shandong University of Science and Technology , Jinan, China	2017 – 2021
<i>Bachelor's Degree</i> in Finance	

EXPERIENCE

VLAA Lab, University of California, Santa Cruz. California, America	2024 – 2025
<i>Research Intern</i> Mentor: Prof. Yuyin Zhou	
Medical image analysis	
Prof. Hao Tang's Research Group, Peking University. Peking, China	2024 – 2024
<i>Research Assistant</i> Mentor: Prof. Hao Tang	
Low-level vision	

PUBLICATIONS

- 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. *CVPR 2026* (Under review).
- 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. *Arxiv 2026*.
- 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. *ICCV 2025* (Accept).
- 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. *ICLR 2026* (Accept).
- Jiawei Mao**, Juncheng Wu, Yuyin Zhou, Xuesong Yin, Yuanqi Chang: Restorer: Removing Multi-Degradation with All-Axis Attention and Prompt Guidance. *Arxiv 2024*.
- Jiawei Mao**, Yu Yang, Xuesong Yin, Ling Shao, Hao Tang: AllRestorer: All-in-One Transformer for Image Restoration under Composite Degradations. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) 2026* (Accept).
- Jiawei Mao**, Guangyi Zhao, Xuesong Yin, Yuanqi Chang: SwinStyleformer is a Favorable Choice for Image Inversion. *IEEE Transactions on Circuits and Systems for Video Technology (TCSVT) 2024* (Accept).
- Jiawei Mao**, Rui Xu, Xuesong Yin, Yuanqi Chang, Binling Nie, Aibin Huang, Yigang Wang: POSTER++: A simpler and stronger facial expression recognition network. *Pattern Recognition (PR) 2025* (Accept).
- Jiawei Mao**, Yuanqi Chang, Xuesong Yin, Binling Nie, Yigang Wang: Optimized Connections and Feature Interactions for More Efficient Single-Image Desnowing. *Applied Soft Computing 2025* (Accept).
- Jiawei Mao**, Shujian Guo, Xuesong Yin, Yuanqi Chang, Binling Nie, Yigang Wang: Medical supervised masked autoencoder: Crafting a better masking strategy and efficient fine-tuning schedule for medical image classification. *Applied Soft Computing 2025* (Accept).
- Jiawei Mao**, Honggu Zhou, Xuesong Yin, Yuanqi Chang, Binling Nie, Rui Xu: Masked autoencoders are effective solutions to transformer data-hungry. *Arxiv 2022*.
- Jiawei Mao**, Yuanqi Chang, Xuesong Yin: Window Token Transformer: Can learnable window token help window-based transformer build better long-range interactions? *Neurocomputing 2023* (Accept).

Jiawei Mao, Xuesong Yin, Guodao Zhang, Bowen Chen, Yuanqi Chang, Weibin Chen, Jieyue Yu, Yigang Wang: Pseudo-labeling generative adversarial networks for medical image classification. *Computers in Biology and Medicine (CBIM) 2022 (Accept)*.

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.

HONORS AND AWARDS

First-Class Academic Scholarship of Hangzhou Dianzi University	2022
National Scholarship of China	2023
Merit Graduated Student of Hangzhou Dianzi University	2024
Merit Graduated Student of Zhejiang Province	2024