Jiawei Mao

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🎓 Education

University of California, Santa Cruz (UCSC), California, America   2025 – now

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

Hangzhou Dianzi University (HDU), Hangzhou, China   2021 – 2024

Master's Degree in Digital Media Technology. Supervised by Prof. Xuesong Yin.

Shandong University of Science and Technology, Jinan, China   2017 – 2021

Bachelor's Degree in Finance

👥 Experience

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

Research Intern   Mentor: Prof. Yuyin Zhou

Medical image analysis

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

Research Assistant   Mentor: Prof. Hao Tang

Low-level vision

📑 Publications

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. *ICLR 2026* (Under review).

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-Adapter: A Training-free Iterative Paradigm for Long Story Visualization. *ICLR 2026* (Under review).

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)* (Under review).

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