Haoning Wu

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Education

Shanghai Jiao Tong University (SJTU), Shanghai, China   2022 – Present
PhD candidate in Electronics Engineering (EE)
Advisors: Prof. Weidi Xie, Prof. Ya Zhang

Shanghai Jiao Tong University (SJTU), Shanghai, China   2018 – 2022
B.S. in Information Engineering, IEEE Pilot Class

Internships

Shanghai AI Laboratory, Shanghai, China   2024.4 – Present
Research intern in GenAI & AI4Medicine
Mentors: Prof. Weidi Xie, Prof. Ya Zhang

Research Interests

- Computer Vision, Generative Models, AI4Medicine, AI4Sports.

Preprints

- **Haoning Wu***, Ziheng Zhao*, Ya Zhang, Weidi Xie, Yanfeng Wang. *MRGen: Diffusion-based Controllable Data Engine for MRI Segmentation towards Unannotated Modalities*, arXiv preprint 2024.

Publications

- Jiayuan Rao*, **Haoning Wu***, Hao Jiang, Ya Zhang, Yanfeng Wang, Weidi Xie. *Towards Universal Soccer Video Understanding*, CVPR 2025.
- **Haoning Wu***, Shaocheng Shen*, Qiang Hu, Xiaoyun Zhang, Ya Zhang, Yanfeng Wang. *MegaFusion: Extend Diffusion Models towards Higher-resolution Image Generation without Further Tuning*, WACV 2025.
- Jiayuan Rao*, **Haoning Wu***, Chang Liu, Yanfeng Wang, Weidi Xie. *MatchTime: Towards Automatic Soccer Game Commentary Generation,* EMNLP 2024. (**Oral**)
- Chang Liu*, **Haoning Wu***, Yujie Zhong, Xiaoyun Zhang, Yanfeng Wang, Weidi Xie. *Intelligent Grimm - Open-ended Visual Storytelling via Latent Diffusion Models*, CVPR 2024.
- Qiuwen Wang, Shuai Guo, **Haoning Wu**, Rong Xie, Wenjun Zhang. *NeRF-SDP: Efficient Generalizable Neural Radiance Field with Scene Depth Perception*, ACM Multimedia Asia, 2023. (**Oral**)
- **Haoning Wu**, Xiaoyun Zhang, Weidi Xie, Ya Zhang, Yanfeng Wang. *Boost Video Frame Interpolation via Motion Adaptation*, BMVC 2023. (**Oral**)
- Baisong Guo*, Xiaoyun Zhang*, **Haoning Wu**, Yu Wang, Ya Zhang, Yanfeng Wang. *LAR-SR: A Local Autoregressive Model for Image Super-Resolution*, CVPR 2022.

Services

Conference Paper Reviewer & Program Committee

- Computer Vision and Pattern Recognition (CVPR)   2023, 2024, 2025
- International Conference on Computer Vision (ICCV)   2023, 2025
- European Conference on Computer Vision (ECCV)   2024
- ACM Multimedia (ACM MM)   2024, 2025
- British Machine Vision Conference (BMVC)   2024
- AAAI Conference on Artificial Intelligence (AAAI)   2025
- Association for Computational Linguistics - Student Research Workshop (ACL-SRW)   2025

Teaching Assistant

- EE208: Introduction to Electrical Engineering C, SJTU   Fall, 2022-2023

Others

- Cluster Server Administrator of MediaBrainGroup@SJTU   2023-2024

Honors and Awards

- **BMVC 2024 Outstanding Reviewer**   2024
- **China National Scholarship** (for Undergraduates)   2021
- SJTU School Scholarship B Prize   2021
- SJTU School Scholarship C Prize   2020

Skills

- Python, PyTorch, TensorFlow, C/C++, Linux

Miscellaneous

- HomePage: https://haoningwu3639.github.io
- GitHub: https://github.com/haoningwu3639
- Languages: English - Fluent, Mandarin - Native speaker