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 & 3D Vision & AI4Science
Mentors: Prof. Weidi Xie, Prof. Ya Zhang

Research Interests

- Generative Models, Multi-modal Learning, Spatial Intelligence, AI4Sports, AI4Science.

Preprints

(* stands for equal contribution.)

[1] **Haoning Wu***, Xiao Huang*, Yaohui Chen, Ya Zhang, Yanfeng Wang, Weidi Xie. *SpatialScore: Towards Unified Evaluation for Multimodal Spatial Understanding*, arXiv preprint 2025.

Publications

(* stands for equal contribution.)

[1] Yanxu Meng*, **Haoning Wu***, Ya Zhang, Weidi Xie. *SceneGen: Single-Image 3D Scene Generation in One Feedforward Pass*, 3DV 2026.

[2] Jiayuan Rao*, Zifeng Li*, **Haoning Wu**, Hao Jiang, Ya Zhang, Yanfeng Wang, Weidi Xie. *Multi-Agent System for Comprehensive Soccer Understanding*, ACM Multimedia 2025.

[3] **Haoning Wu***, Ziheng Zhao*, Ya Zhang, Yanfeng Wang, Weidi Xie. *MRGen: Segmentation Data Engine for Underrepresented MRI Modalities*, ICCV 2025.

[4] Jiayuan Rao*, **Haoning Wu***, Hao Jiang, Ya Zhang, Yanfeng Wang, Weidi Xie. *Towards Universal Soccer Video Understanding*, CVPR 2025.

[5] **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.

[6] Jiayuan Rao*, **Haoning Wu***, Chang Liu, Yanfeng Wang, Weidi Xie. *MatchTime: Towards Automatic Soccer Game Commentary Generation,* EMNLP 2024. (**Oral**)

[7] Chang Liu*, **Haoning Wu***, Yujie Zhong, Xiaoyun Zhang, Yanfeng Wang, Weidi Xie. *Intelligent Grimm - Open-ended Visual Storytelling via Latent Diffusion Models*, CVPR 2024.

[8] 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**)

[9] **Haoning Wu**, Xiaoyun Zhang, Weidi Xie, Ya Zhang, Yanfeng Wang. *Boost Video Frame Interpolation via Motion Adaptation*, BMVC 2023. (**Oral**)

[10] 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 & Professional Activities

Conference Paper Reviewer & Program Committee

- Computer Vision and Pattern Recognition (CVPR) 2023, 2024, 2025, 2026
- 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, 2025
- Conference on Neural Information Processing Systems (NeurIPS) 2025
- AAAI Conference on Artificial Intelligence (AAAI) 2025, 2026
- Winter Conference on Applications of Computer Vision (WACV) 2026
- International Conference on 3D Vision (3DV) 2026

Teaching Assistant

- EE208: Introduction to Electrical Engineering C, SJTU Fall, 2022-2024

Others

- Cluster Server Administrator of MediaBrainGroup@SJTU 2023-2025

Honors & Awards

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

Invited Talks

Controllable Segmentation Data Engine for Scarce Radiology Images Aug 24, 2024

NICE 2025 Paper Sharing Session

Referees

Weidi Xie, Associate Professor, Shanghai Jiao Tong University, weidi@sjtu.edu.cn
Ya Zhang, Professor, Shanghai Jiao Tong University, ya_zhang@sjtu.edu.cn

Miscellaneous

- Google Scholar: https://scholar.google.com/citations?user=ia4M9mMAAAAJ
- HomePage: https://haoningwu3639.github.io
- GitHub: https://github.com/haoningwu3639
- Languages: English - Fluent, Mandarin - Native speaker