Xianfeng Wu

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EDUCATION

The University of North Carolina at Chapel Hill Sep. 2026 –
Incoming Ph.D. Student in Computer Science *NC, USA*
- **Advisor**: Assistant Prof. Tianlong Chen

Hong Kong University of Science and Technology Sep. 2024 – June 2025
Ph.D. Student in Individualized Interdisciplinary Program *Clear Water Bay, Hong Kong*
- **Advisor**: Assistant Prof. Harry Yang

RESEARCH AREAS

Multi-modal Foundation model: Image/Video Generative Models, Unified Models
Computer Vision: 3D/4D Reconstruction/Generation
AI4Science: AI for PDE, RNA Foundation model

SELECTED PUBLICATIONS

2026

- **Xianfeng Wu**, Jie Peng, Song Wang, Jinhao Duan, Tianlong Chen, sCM-RNA: Preference-Aligned Consistency Models for RNA Inverse Folding, submitted to ICML'26, under review.
- Haoze Zheng[+], Zihao Wang[+], **Xianfeng Wu**[+], Yajing Bai, Yexin Liu, Yun Li, Xiaogang Xu, Harry Yang, Learning Latent Proxies for Controllable Single-Image Relighting, CVPR'26, (co-first author)

2025

- **Xianfeng Wu**[+], Yajing Bai[+], Minghan Li, Xianzu Wu, Xueqi Zhao, Zhongyuan Lai, Wenyu Liu, Xinggang Wang[*], 4DLangVGGT: 4D Language Visual Geometry Grounded Transformer, arXiv:2512.05060. **Github Stars**: 80+ [Project], [Github]
- **Xianfeng Wu**[+], Yajing Bai[+], Haoze Zheng[+], Harold Haodong Chen[+], Yexin Liu[+], et al., LightGen: Efficient Image Generation through Knowledge Distillation and Direct Preference Optimization, arXiv:2503.08619. **Github Stars**: 130+ [Github]
- Xuran Ma, Yexin Liu, Yaofu Liu, **Xianfeng Wu**, et al., Model Reveals What to Cache: Profiling-Based Feature Reuse for Video Diffusion Models, ICCV'25 [Github]
- Yexin Liu[+], Zhengyang Lian[+], Yueze Wang[+], **Xianfeng Wu**[+], et al., Unveiling the Ignorance of MLLMs: Seeing Clearly, Answering Incorrectly, CVPR'25 (co-first author) [Github]

2024

- Xianzu Wu[+], **Xianfeng Wu**[+], Tianyu Luan, Yajing Bai, Zhongyuan Lai[*], Junsong Yuan, FSC: Few-point Shape Completion, CVPR'24, (co-first author) [Github]

RESEARCH EXPERIENCE

Remote Research Intern Aug. 2025 – present
Department of Computer Science, University of North Carolina at Chapel Hill *NC, US*
- **Advisor**: Assistant Prof. Tianlong Chen

Research Intern June 2025 – Sep. 2025
School of EIC, Huazhong University of Science and Technology *Hubei, China*
- **Advisor**: Prof. Xinggang Wang & Prof. Wenyu Liu

Remote Research Intern Jan. 2023 – June 2024
Department of Computer Science and Engineering, University at Buffalo *NY, US*
- **Advisor**: Prof. Junsong Yuan & Dr. Tianyu Luan

Summer Research Intern June 2023 – Oct. 2023
School of Engineering, Westlake University *Zhejiang, China*
- **Advisor**: Assistant Prof. Tailin Wu

Service

Academic Journal and Conference Reviewer

- ICML'26, ICLR'25, ICCV'25, IEEE Transactions on Visualization and Computer Graphics (TVCG)

Technical Skills

Languages

- Python, MATLAB, C/C++, Java

Frameworks / Libraries

- PyTorch, TensorFlow

Tools

- Docker, Git, Linux, Slurm