

# Xianfeng Wu

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## EDUCATION

Jiangnan University,

Sep. 2020 – June 2024

B.E. Artificial Intelligence | **GPA**: 3.38/4.0

Hubei, China

- **Advisor**: [Associate Prof. Zhongyuan Lai](#)
- **Honors**: Bingling Honours Degree; President Scholarship (top scholarship in Jiangnan University, <0.1% student); Wuhan Government Scholarship (top scholarship in Wuhan); ASC World Student Supercomputer Competition Second Prize

## RESEARCH AREAS

**Multi-modal Foundation model**: Image/Video Generative model

**Computer Vision**: 3D/4D reconstruction, generation

**AI4Science**: AI for PDE, RNA Foundation model

## SELECTED PUBLICATIONS

### 2025

- **Xianfeng Wu**<sup>+</sup>, Yajing Bai<sup>+</sup>, Minghan Li, Xianzu Wu, Xueqi Zhao, Zhongyuan Lai, Wenyu Liu, Xinggang Wang\*, 4DLangVGGT: 4D Language Visual Geometry Grounded Transformer, submitted to ICLR '26, under review.  
**Github Stars**: [50+](#) [Project], [Github]
- **Xianfeng Wu**<sup>+</sup>, Yajing Bai<sup>+</sup>, Haoze Zheng<sup>+</sup>, Harold Haodong Chen<sup>+</sup>, Yexin Liu<sup>+</sup>, Zihao Wang, Xuran Ma, Wenjie Shu, Xianzu Wu, Harry Yang\*, Ser-Nam Lim\*, LightGen: Efficient Image Generation through Knowledge Distillation and Direct Preference Optimization, arXiv:2503.08619. **Github Stars**: [120+](#) [Github]
- Xuran Ma, Yexin Liu, Yaofu Liu, **Xianfeng Wu**, Mingzhe Zheng, Zihao Wang, Ser-Nam Lim, Harry Yang, Model Reveals What to Cache: Profiling-Based Feature Reuse for Video Diffusion Models, **ICCV 25'** [Github]
- Yexin Liu<sup>+</sup>, Zhengyang Lian<sup>+</sup>, Yueze Wang<sup>+</sup>, **Xianfeng Wu**<sup>+</sup>, Feilong Tang, Muyang He, Jian Li, Zheng Liu, Harry Yang, Ser-Nam Lim, Bo Zhao\*, Unveiling the Ignorance of MLLMs: Seeing Clearly, Answering Incorrectly, **CVPR 25'** (co-first author) [Github]

### 2024

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

### 2023

Zhuangzhuang Zhang, Libing Wu, Debiao He, Jianxin Li, Shuqin Cao, **Xianfeng Wu**, Communication-Efficient and Byzantine-Robust Federated Learning for Mobile Edge Computing Networks, IEEE Network, pp. 112–119.

### 2022

**Xianfeng Wu**, Xinyi Liu, Junfei Wang, Zhongyuan Lai, Jing Zhou, Xia Liu, Point cloud classification based on transformer, Computers and Electrical Engineering, 108413.

## 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](#)
- Developing an RNA foundation model for RNA inverse design using continuous consistency modeling.

**Remote Research Intern**

Aug. 2025 – present

School of EIC, Huazhong University of Science and Technology

Hubei, China

- **Advisor**: [Prof. Xinggang Wang](#) & [Prof. Wenyu Liu](#)
- Designed the first feed-forward 4D language–vision model based on VGGT, using Deva, CLIP, and MLLMs to auto-label videos and applying 2D guidance for pixel-level semantic learning; achieved strong generalization even with small-scale training data; the project received [50+ GitHub stars](#).

## Research Assistant

July 2024 – June 2025

*Division of Arts and Machine Creativity, Hong Kong University of Science and Technology*

*Clear Water Bay, HK*

- **Advisor:** [Assistant Prof. Harry Yang](#)
- Developed a resource-efficient MAR-based text-to-image foundation model. Achieved capabilities comparable to SD3 and Flux using only a single H100 node; the project received **120+ GitHub stars**.

## 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](#)
- Explored few-point shape completion using a dual-path encoder and dual WGANs, achieving high-fidelity reconstruction from as few as 64 points.

## Summer Research Intern

June 2023 – Oct. 2023

*School of Engineering, Westlake University*

*Zhejiang, China*

- **Advisor:** [Assistant Prof. Tailin Wu](#)
- Developed a GNN-based inverse modeling framework that estimates PDE system coefficients from observed initial states and significantly improves downstream time-step prediction; demonstrated effectiveness on 1D PDEs and 2D FNO benchmark datasets.

## Research Intern

June 2022 – Dec 2022

*School of Cyber Science and Engineering, Wuhan University*

*Hubei, China*

- **Advisor:** [Prof. Libing Wu](#)
- Worked on foundational research in federated learning and reinforcement learning.

## EXPERIENCE

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### Undergraduate Teaching Assistant

Jan. 2023 – June. 2023

*School of Artificial Intelligence, Jiangnan University*

*Hubei, China*

- Mentored **over 100** students enrolled in Object Oriented Programming (C++) and Digital Image Processing to **both** Artificial Intelligence and non-technical majors

## SERVICE

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### Academic Journal and Conference Reviewer

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

### Membership in Professional Societies

- China Society of Image and Graphics (CSIG) Student Member

## TECHNICAL SKILLS

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### Languages

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

### Frameworks / Libraries

- PyTorch, TensorFlow

### Tools

- Docker, Git, Linux, Slurm