

# Xianzu Wu

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Yangtze University

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## EDUCATION

B.E. Data Science and Big Data Technology, Yangtze University, Wuhan, China, 2020-2024

## RESEARCH EXPERIENCE

**Academy of Interdisciplinary Studies, Hong Kong University of Science and Technology** Clear Water Bay, HK

Research Intern

Jan 2025 – present

**Everlyn**

Researcher

ShenZhen, China

Jan 2025 – present

Advisor: [Assistant Prof. Harry Yang](#) & [Associate Prof. Sernam Lim](#)

**School of Engineering, Westlake University**

Research Intern

Hangzhou, China

Jun 2024 – Dec 2024

Under the guidance of [Assitant Professor Huan Wang](#). I collaborated with [Prof. Jun Liu](#) from Lancaster University on a monocular democratizing 3D scene reconstruction project. I use Depth and normal estimation methods combined with 3D Self-Attention and Geometric Affine Fields to propose a Monocular 3D Scene. The **first** model that can effectively reconstruct the challenging **outdoor** scenes from a single view where I am a first author, this work will be submitted at the ICCV'25.

**Department of Computer Science and Engineering, The State University of New York at Buffalo**

Remote Intern

NY, USA

Jan 2023 – Jun 2024

Under the guidance of [Prof. Junsong Yuan](#). I combined GAN and Transformer to propose a stable point cloud complementation model that can still complement point clouds well with only 64 partial point clouds(**First work**). We also present FPFH information entropy to prove the feasibility of our method. This work was accepted in the CVPR'24.

**Subsurface Modeling and Intelligent Prospecting RD Center, Yangtze University** Wuhan, China

Research Assistant

Jul 2022 – Sep 2023

Under the guidance of [Prof. Guozhong Gao](#).

**School of Cyber Science and Engineering, Wuhan University**

Intern

Wuhan, China

Jun 2022 – Dec 2022

Under the guidance of [Prof. Libing Wu](#).

**Key Laboratory of Exploration Technologies for Oil and Gas Resources, Ministry of Education, Yangtze University**

Undergraduate Researcher

Wuhan, China

Jul 2021 – 2022 Jul

The **first** effectively real-time sand detection has shown reliability and accuracy in determining production contributions and fluid phase changes. This work was published in the journal SN Applied Sciences, of which I am the first author.

## RESEARCH AREAS

**Computer Vision:** 3D Reconstruction and Generation

**Multi-modal Foundation model**

## PUBLICATIONS

### Conference Proceedings

- 2025 Xianfeng Wu, Yajing Bai, Haoze Zheng, Harold Haodong Chen, Ye xin Liu, Zihao Wang, Xuran Ma, Wen-Jie Shu, **Xianzu Wu**, Harry Yang, Ser-Nam Lim, LightGen: Efficient Image Generation through Knowledge Distillation and Direct Preference Optimization. (Submit at ICCV'25).
- 2025 **Xianzu Wu**, Zhenxin Ai, Harry Yang, Sernam Lim, Jun Liu, Huan Wang\*, Nigara: Normal-Integrated Geometric Affine Fields for Scene Reconstruction from a Single View. (Submit at ICCV'25).
- 2024 Xianzu Wu, Xianfeng Wu, Tianyu Luan, Yajing Bai, Zhongyuan Lai, and Junsong Yuan. "FSC: Few-point Shape Completion." In: *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition*. 2024, pp. 26077–26087

### Jounral Proceedings

- 2022 Xianzu Wu, Lixiong Gan, Shixiong Yuan, and Rui Deng. "A preliminary study on wellbore flow interpretation of fiber optic vibration signals based on K-means clustering algorithm." In: *SN Applied Sciences* 4 (Aug. 2022). DOI: 10.1007/s42452-022-05117-6

## PATENT

- 2024 Zhongyuan Lai, Hui Xiong, Fengchun Zhou, Xianfeng Wu, Yajing Bai, **Xianzu Wu**, et al. 2024, RGB image-based 3D hand pose estimation method, device and processing equipment, 2024103536669, filed Mar. 27 2024

## AWARDS

### Awards and Honors

- 2022 Third Prize in Hubei Contest District in China Undergraduate Mathematical Contest in Modeling
- 2021 Third Prize in Hubei Contest District in China Undergraduate Mathematical Contest in Modeling
- 2021 National Third Prize of Mathematical Modeling Competition in Yangtze River Delta Universities

## EXTERNAL AND INTERNAL FUNDING

- I Machine vision-based recognition of abnormal human postures and rehabilitation movements Key Research and Development program projects of Hubei Province (No. 2020BCB054) 2020/09-2022/07: RMB 1,000,000

- 2 Intelligent Identification of Fluid around the Well Based on Fiber Optic Vibration Signal  
National Key Project of University Student Innovation and Entrepreneurship Program (No. 202210489004)  
2022/09-2023/07: RMB 20,000
- 3 Research on Comprehensive Prediction Method of Casing Damage  
Hubei Provincial Education Department Science and Technology Research Key Project (No. D20191302)  
2019/09-2021/12: RMB 40,000

## **SERVICE**

### **Academic Journal and Conference Reviewer**

CMC-Computers, Materials Continua

### **Membership in Professional Societies**

China Society of Image and Graphics (CSIG) Student Member

## **SKILLS**

Programming Python, C/C++, Java, LaTeX, Matlab, R

Deep Learning PyTorch, TensorFlow