Nanjie Yao

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EDUCATION

Zhejiang University of Technology — Hangzhou, China
B.S. in Network Engineering — *Sept.2021 – June 2025*
- GPA: 3.71/4.0 (Rank: 4/53)
- Supervisor: Prof. Sixian Chan
- Honor Graduate of Jianxing Honors College

University of California - Irvine — Irvine, USA
Visiting Student — *Sept. 2023 – Dec. 2023*
- GPA: 4.0/4.0
- Academic Study Abroad Program
- Enroll courses in AI, computer system security, data science and participate in a research project.

WORK EXPERIENCE

Research Assistant — Apr. 2024 – Present
HKUST (GZ) — *Guangzhou, China*
Supervisor: Prof. Hao Wang

Research Topic: 3D Reconstruction; Human Animation; Human Pose Estimation

Remote Intern — Aug. 2025 – Sept. 2025
TA&MU — *Texas, USA*
Supervisor: Prof. Zhengzhong Tu

Research Topic: Human Video Generation

Research Assistant (Part-time) — Apr. 2024 – Sept. 2024
Institue of Cyberspace Security, ZJUT — *Hangzhou, China*
Supervisor: Prof. Zhenyu Wen & Prof. Yiming Wu

Research Topic: Auto-ML; Neural Backdoor Detection and Mitigation

Research Assistant - Intern — Dec. 2023 – Apr. 2024
Zhejiang Lab — *Hangzhou, China*
Supervisor: Prof. Feng Lin

Research Topic: 3D Reconstruction

SELECTED PUBLICATIONS

MultiGO: Towards Multi-level Geometry Learning for Monocular 3D Textured Human Reconstruction
- IEEE Conference on Computer Vision and Pattern Recognition (IEEE CVPR), 2025
- Gangjian Zhang*, **Nanjie Yao***, Shunsi Zhang, Hanfeng Zhao, Guoliang Pang, Jian Shu, Hao Wang

FastAnimate: Towards Learnable Template Construction and Pose Deformation for Fast 3D Human Avatar Animation
- Annual AAAI Conference on Artificial Intelligence (AAAI), 2026
- Jian Shu*, **Nanjie Yao***, Gangjian Zhang, Junlong Ren, Yu Feng, Hao Wang

End-to-End Model Generation with Large Language Models for Adaptive IoT Application Deployment
- IEEE/ACM International Conference on Software Engineering (IEEE/ACM ICSE), 2026
- Zhenyu Wen, Jintao Feng, **Nanjie Yao**, Di Wu, Cong Wang, Shibo He

SAT: Supervisor Regularization and Animation Augmentation for Two-process Monocular Texture 3D Human Reconstruction
- ACM International Conference on Multimedia (ACM MM), 2025
- Gangjian Zhang, Jian Shu, **Nanjie Yao**, Hao Wang

DeepSanitizer: Data-free Backdoor Removal in Deep Neural Networks
- Submitted to IEEE Transactions on Dependable and Secure Computing (IEEE TDSC), 2025 (Under Review)
- Yiming Wu*, **Nanjie Yao***, Chong Fu, Chenghui Shi, Tiejun Wu, Shouling Ji

MultiGO++: Monocular 3D Clothed Human Reconstruction via Geometry-Texture Collaboration
- Submitted to IEEE Transactions on Visualization and Computer Graphics (IEEE TVCG), 2025 (Under Review)
- **Nanjie Yao***, Gangjian Zhang*, Wenhao Shen, Jian Shu, Hao Wang

High-Fidelity Human Motion Capture from Limited VR Signals: A Wavelet-Driven Solution
- Submitted to IEEE Conference on Virtual Reality and 3D User Interfaces (IEEE VR), 2026 (Under Review)
- Wenhao Shen*, **Nanjie Yao***, Guoshen Lin, Hao Wang

AvatarWolf: Towards Multimodal Perception and Generation in Social Deduction Games and Cross-modal Feature Fusion
- Submitted to ACM CHI conference on Human Factors in Computing Systems (ACM CHI), 2026 (Under Review)
- Zheng Zhang*, **Nanjie Yao***, Jiarui He, Deheng Ye, Peilin Zhao, and Hao Wang

TECHNICAL SKILLS

Languages: Python, Bash, C/C++, Latex, Markdown, Java, Html, CSS, SQL
Frameworks: Pytorch, Numpy, Matplotlib, Pytorch3D, Open3D, Springboot, Mybatis
Developer Tools: Linux, Docker, Blender, MeshLab, VS Code

AWARDS

Excellent Undergraduate Dissertation Project	Jun. 2025
Honor Graduate from Jianxing Honors College	Jun. 2025
Zhejiang Provincial Government Scholarship (Top 3%)	Sept. 2024
1st Class Scholarship for Outstanding Students (Top 1%)	Sept. 2024
1st Class Scholarship for Academic Record (Top 1%)	Sept. 2024
Huawei Intelligent Base Scholarship (6000 CNY)	Dec. 2023
2nd Class Scholarship for Outstanding Students (Top 8%)	Sept. 2023
2nd Class Scholarship for Academic Record (Top 8%)	Sept. 2023
2nd Prize in the National Information Security Competition for Chinese College Students	Jul. 2023
2nd Prize of the National Innovation and Entrepreneurship Competition of China	Jun. 2023
3rd Prize in the China RoboCup (Drone Track)	Dec. 2022

PATENTS

A 3D Organ Medical Image Segmentation System and Method Based on Paddle-Seg Deep Learning Framework – Chinese Software Copyright	2024