

Nanjie Yao

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EDUCATION

The Hong Kong University of Science and Technology (Guangzhou) Guangzhou, China
Ph.D. in Artificial Intelligence Sept. 2026 – Jun. 2030 (Expected)

- Supervisor: Prof. Hao Wang
- Research Interests: 3DV, LLM Agent

Zhejiang University of Technology Hangzhou, China
B.S. in Network Engineering Sept. 2021 – Jun. 2025

- GPA: 3.71/4.0 (Rank: 4/53)
- Supervisor: Prof. Sixian Chan
- Honor Graduate of Jianxing Honors College

University of California - Irvine Irvine, U.S.
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 – Aug. 2026
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
Institute 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

PUBLICATIONS

MotionGRPO: Overcoming Low Intra-Group Diversity in GRPO-Based Egocentric Motion Recovery

- International Conference on Machine Learning (ICML), 2026
- Nanjie Yao, Junlong Ren, Wenhao Shen, Hao Wang

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

SMPL Normal Map Is All You Need for Single-view Textured Human Reconstruction

- IEEE International Conference on Multimedia & Expo (IEEE ICME, Oral Presentation), 2025
- Wenhao Shen, Gangjian Zhang, Jianfeng Zhang, Yu Feng, **Nanjie Yao**, Xuanmeng Zhang, Hao Wang

Human Multi-View Synthesis from a Single-View Model: Transferred Body and Region Representations

- IEEE International Conference on Multimedia & Expo (IEEE ICME), 2026
- Yu Feng, Shunsi Zhang, Jian Shu, **Nanjie Yao**, Gangjian Zhang, Hanfeng Zhao, Lie Xu, Chi Zhang, and 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 International Conference on Machine Learning (ICML), 2026
- Wenhao Shen*, **Nanjie Yao***, Guoshen Lin, Hao Wang

CaM-Wolf: Causal-Aware Multimodal Agents for Social Deduction Games

- Submitted to ACM International Conference on Multimedia (ACM MM), 2026
- Zheng Zhang*, **Nanjie Yao***, Jiarui He, Deheng Ye, Peilin Zhao, and Hao Wang

EvolveNav: Proactive Preflection and Self-Evolving Memory for Zero-Shot Object Goal Navigation

- Submitted to ACM International Conference on Multimedia (ACM MM), 2026
- Qi Chai, Wenhao Shen, **Nanjie Yao**, Yue Xia, Kaiyong Zhao, Jie Ma, Guosheng Lin, 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
1 st Class Scholarship for Outstanding Students (Top 1%)	Sept. 2024
1 st Class Scholarship for Academic Record (Top 1%)	Sept. 2024
Huawei Intelligent Base Scholarship (6000 CNY)	Dec. 2023
2 nd Class Scholarship for Outstanding Students (Top 8%)	Sept. 2023
2 nd Class Scholarship for Academic Record (Top 8%)	Sept. 2023
2 nd Prize in the National Information Security Competition for Chinese College Students	Jul. 2023
2 nd Prize of the National Innovation and Entrepreneurship Competition of China	Jun. 2023
3 rd 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

COMMUNITY SERVICES

Reviewer: ICASSP 2026; ICME 2025