

MOU, Linzhan

☎ (+1) 217-607-4161 | ✉ moulz@zju.edu.cn | 🌐 https://linzhanm.github.io

EDUCATION

Zhejiang University

Hangzhou, China

Bachelor of Automation(Robotics)

Sept. 2020 – Jul. 2024 (expected)

- **GPA:** 3.98/4.00 (91.2/100), **Ranking:** Top 3%
- **Laureate of National Scholarship (Highest Honor for China Undergraduates)**
- **Honor Minor:** Advanced Honor Class of Engineering Education (Top 40/5,600 among all the engineering students)
- **Course Highlights:** Wheeled Mobile Robots and Enhanced Lab Training(4.0); Bipedal Mobile Robot Technology(4.0)

PUBLICATION

• Painting 3D Nature in 2D: View Synthesis of Natural Scenes from a Single Semantic Mask

Shangzhan Zhang, Sida Peng, Tianrun Chen, **Linzhan Mou**, Haotong Lin, Kaicheng Yu, Yiyi Liao, Xiaowei Zhou
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023. [[website](#)]

• Compact Neural Volumetric Video Representations with Dynamic Codebooks

Haoyu Guo, Sida Peng, Yunzhi Yan, **Linzhan Mou**, Yujun Shen, Hujun Bao, Xiaowei Zhou
Conference on Neural Information Processing Systems (NeurIPS), 2023. [[paper](#)]

• MAttFace: High-Resolution Face Swapping with Multi-Level Attention

Linzhan Mou*, Shaoting Zhu*, Junyi Shen, Chao Xu, Yong Liu (* equal contribution)
Under Review of IEEE Transactions on Computational Imaging (TCI). [[paper](#)]

• Relightable Neural Avatars from Sparse Multi-View Videos

Zhen Xu, Sida Peng, Chen Geng, **Linzhan Mou**, Zihan Yan, Jiaming Sun, Hujun Bao, Xiaowei Zhou
arXiv preprint arXiv:2308.07903; [[website](#)]

RESEARCH EXPERIENCE

Vision Group, University of Illinois at Urbana-Champaign, Research Assistant

Adivisor : **Prof. Yuxiong Wang** (Department of Computer Science)

Feb. 2023 – Present

Topic : 3D vision & generative model

Champaign, IL, USA (on-site)

- Instruction-guided dynamic scene editing based on diffusion model with multi-dimension consistency

State Key Laboratory of CAD&CG, Zhejiang University, Research Assistant

Adivisor : **Prof. Xiaowei Zhou** (Department of Computer Science)

Jun. 2022 – Present

Topic : 3D vision & graphics & digital humans & generative model

Hangzhou, Zhejiang, China

- View synthesis of natural scenes from a single semantic mask combining with neural field and image inpainting.
- Relightable & animatable neural avatars from sparse view videos with sphere-tracing and soft-shadow algorithm.
- Real-time rendering of dynamic volumetric videos using a novel dynamic codebook and tensor decomposition technique.

APRIL-Lab, Zhejiang University, Researcher Assistant

Adivisor : **Prof. Yong Liu** (Institute of Cyber-Systems and Control)

Dec. 2021 – May. 2023

Topic : computer vision & generative model

Hangzhou, Zhejiang, China

- Multimodal-driven talking face generation via a proposed texture-geometry-aware diffusion model which decomposes the complex transfer problem into multi-conditional denoising processes.

HONORS & AWARDS

- National Scholarship, Ministry of Education of P.R. China (**Top 0.2% across China**) 2021
- First-Class Scholarship for Academic Excellence of Zhejiang University (**Top 3%**) 2021
- Top 10 Outstanding Students of Academy (**Top 10 out of 2,000**) 2022
- Government Scholarship for Academic Excellence of Zhejiang Province (**Top 3%**) 2022
- National First Prize, China Undergraduate Mathematical Contest in Modeling(CUMCM) (**Top 1%**) 2022
- International Gold Prize, International Genetically Engineered Machine Competition(iGEM) (**Top 1%**) 2022
- First Prize, Supcon Cup College Student Robot Competition (**Top 1 out of 37 teams**) 2022

EXTRACURRICULAR SKILLS

Computer: C/C++, Python, Matlab, Bash, PyTorch, LaTeX, Linux, COLMAP, ROS, Unity.