

# MOU, Linzhan

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## EDUCATION

Department of Control Science and Engineering, Zhejiang University

Hangzhou, China

Bachelor of Automation

Sept. 2020 – Jul. 2024 (expected)

- **GPA:** 3.98/4.00 (91.2/100), **Ranking:** 7/132 (Top 5%)
- **Laureate of National Scholarship** (Highest honor for China Undergraduates)
- **Honor Minor:** Advanced Honor Class of Engineering Education (ACEE), **Chu Kochen Honors College** (Top 40/5,600 among all the engineering students)

## 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  
In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023. [website]
- **AttFace: High-Resolution Face Swapping with Attention Network**  
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  
Under Review of Special Interest Group on GRAPHics and Interactive Techniques in Asia (SIG Asia), 2024. [paper]
- **Compact Neural Volumetric Video Representations with Dynamic Codebooks**  
Haoyu Guo, Sida Peng, Yunzhi Yan, Linzhan Mou, Yujun Shen, Hujun Bao, Xiaowei Zhou  
Under Review of Neural Information Processing Systems (NeurIPS), 2024. [paper]

## 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
- Supcon Technology Group Scholarship (**Top 5%**) 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
- Academic Excellence Scholarship of Zhejiang University 2021, 2022

## RESEARCH EXPERIENCE

**Yu-Lab, University of Illinois at Urbana-Champaign**, Research Assistant

Adivisor : Prof. *Yuxiong Wang*

Feb. 2023 – Present

Topic : Diffusion-based Editing

Champaign, IL, USA (on-site)

- Customized dynamic NeRF editing with instruction based on Stable Diffusion model.

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

Adivisor : Prof. *Xiaowei Zhou*

Jun. 2022 – Present

Topic : 3D Vision

Hangzhou, 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*

Dec. 2021 – May. 2023

Topic : Face Generation and Swapping

Hangzhou, China

- Multimodal-driven talking face generation via a unified diffusion-based generator.

## EXTRACURRICULAR SKILLS

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