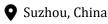
Liangchao Xu Student in NIU

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ABOUT

I am a senior student at the School Intelligent Software and Engineering at Nanjing University. I'm very fortunate to be advised by Prof. Yao Yao of 3D Vision Lab from School of Intelligence Science and Technology, Nanjing University. I' m also working closely with Prof. Yuan Liu from HKUST. My research primarily centers on 3D reconstruction and 3D generation.

EDUCATION

Sept. 2022 - Now

B.S. Intelligent Software and Engineering

Sept. 2022 – Now

School of Intelligent software and engineering

GPA: 4.31 / 5.0 **CET-6**: 551/710

ABILITIES

PyTorch, CUDA, C/C++, Python – focus on 3D vision

PUBLICATIONS

[1] Chengwei Ren, Fan Zhang, Liangchao Xu, Liang Pan, Ziwei Liu, Wenping Wang, Xiao-Ping Zhang, Yuan Liu. GauUpdate: New Object Insertion in 3D Gaussian Fields with Consistent Global Illumination. (under review)

EXPERIENCES

Research Intern Feb.2024-Now

School of Intelligence Science and Technology, Nanjing University under the supervision of Prof. Yao Yao.

Rebuilt and optimized a DUSt3R-based SfM pipeline, improving core modules and enhancing point cloud and pose accuracy via bundle adjustment. Adapted the system for fisheye and panoramic image inputs.

Research Intern (Remote)

Feb.2025-Now

Division of Integrative Systems and Design, HKUST under the supervision of Prof. Yuan Liu.

Modified the relightable 3D Gaussian CUDA renderer inspired by the Gaussian-Opacity-Field framework; identified fundamental flaws through experiments, prompting a project pivot. (Submitted to ICCV.)

Designed and implemented a multi-view diffusion-based relighting pipeline, covering dataset creation, model architecture, and training; supports realistic lighting transitions and is under publication.

AWARDS AND HONORS

Gang Zheng Overseas learning Scholarship

Apr. 7, 2025

Light of Mobility: Digital Intelligence Innovation Scholarship

Sept. 14, 2024

Third Class Renming Scholarship

Sept. 10, 2023