

# Liangchao Xu

Student in NJU

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## ABOUT

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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

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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

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

## PUBLICATIONS

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[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

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### Research Intern

Feb.2024–Now

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

Rebuilt and optimized a DUS3R-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

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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