

Jiaxin Li

jx.li@zju.edu.cn | Homepage | Github

Education

Zhejiang University, Chu Kochen Honors College

Sep 2023 – June 2027

Bachelor of Science, Computer Science and Technology (Honor), Turing Class

- **GPA:** 3.9/4.0
- **Coursework:** Mathematical Analysis (H) (92/100), Computer Vision (93/100), Introduction to Data Mining (99/100), Advanced Data Structures and Algorithm Analysis (92/100), Foundations of Programming and Algorithms (97/100), Foundations of Computer Logic Design (95/100)

Experience

ZJU3DV Lab, Research Intern

Oct 2023 – Present

Advisors: Prof. Xiaowei Zhou & Prof. Sida Peng

Research Interests: Fine-grained 3D reconstruction, 3D motion tracking, World models

Research Projects:

- Proposed an enhanced differentiable **3D scene reconstruction** method that achieves higher-fidelity modeling of environmental reflections and faster rendering speed over prior work.
- Established a pipeline to recover SMPL models from sparse optical markers for a **motion capture** project, and conducted systematic baseline experiments for a **depth estimation** project.
- Developing a synthetic data framework that leverages game engines to generate dense, object-rich video sequences and annotations for robust **2D/3D tracking**.

Research Highlights

EnvGS++: Modeling View-Dependency with Real-Time Environment Gaussians

Zhen Xu*, **Jiaxin Li***, Tao Xie, Xi Chen, Yiman Xie, Yudong Jin, Yujun Shen, Sida Peng, Hujun Bao, Xiaowei Zhou

Submitted to *T-PAMI*, 2025

InfiniDepth: Arbitrary-Resolution and Fine-Grained Depth Estimation with Neural Implicit Fields

Hao Yu, Haotong Lin, Jiawei Wang, **Jiaxin Li**, Yida Wang, Xueyang Zhang, Yue Wang, Xiaowei Zhou, Ruizhen Hu, Sida Peng

Under review at *CVPR* 2026

TrackRealm: A Photorealistic Dataset for Learning Dense Tracking in Object-Rich Scenes [Ongoing]

Jiaxin Li, Xueyang Wang, Xiaowei Zhou, Sida Peng

Targeting *ECCV* 2026

Skills

Programming Languages: Python, C/C++ , Unix/Bash, Javascript, HTML, Java

Libraries: PyTorch, OpenCV, OpenGL, NumPy

Tools: Git, COLMAP, \LaTeX , Blender

Languages: Chinese(Native), English

Awards

First-prize Scholarship

Awarded by Zhejiang University, Top 3%

2025

Pioneer Scholarship

Awarded by Zhejiang University, Top 5%

2024

Scholarship for Exceptional Students in Fundamental Subjects

Awarded by Zhejiang University, Top 10% in department

2024