Liangchen Li

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Date of Birth: April 2000 | https://github.com/VVM-hub

EDUCATION

University of Science and Technology of China — **Hefei, China**
Ph.D. in Mathematics — Sep. 2022 – Present
B.S. in Mathematics — Sep. 2018 – Jun. 2022

- Mentor: Prof. Juyong Zhang
- Related Coursework: Computer Aided Geometric Design, Optimization algorithm, Computer Graphics, Foundations of Algorithms, Finite Element Method, Mathematical Analysis, Numerical analysis, Numerical algebra

RESEARCH INTERESTS

3D Computer Vision & Graphics

- Differentiable Rendering
- 3D Generative Models
- 3D Reconstruction
- Scene Modeling and Representing

Open to Exploring New Research Domains beyond Current Interests

SKILLS & HOBBIES

Programming	Python, C++
English	TOEFL 105 (R30/L29/S19/W27)
Tools	pytorch, LaTeX, MarkDown, Matlab, Mathematica, Adobe (Illustrator, Premiere, Photoshop)

RESEARCH EXPERIENCE

L_0-Sampler: An L_0 Model Guided Volume Sampling for NeRF — **2023**

- **Liangchen Li**, , Juyong Zhang
- Proposed the L_0-Sampler, an enhanced sampling strategy that concentrates sampling by shaping $w(t)$ to approximate the L_0 distance form.
- Accepted by **CVPR 2024**
- *Project Page* | *Code Link*

A Baseline for Human-object Interaction Volumetric Video Generation — **2024**

- As the leading researcher. Advisor: Prof. Juyong Zhang.
- Proposed a high-fidelity dataset and a more flexible pipeline for 4D scene generation on the human-object interaction scene.

Joint Deblurring and 3D Reconstruction from Defocused Microscopic Images — **2024**

- Yifan Zhao, **Liangchen Li**, Yuqi Zhou, Kai Wang, Yan Liang, Juyong Zhang
- Proposed a joint deblurring and 3D reconstruction method for microscopic imaging.

Generating Directional Distance Fields from Multi-view Images — **2022**

- Undergraduate graduation project. Advisor: Prof. Juyong Zhang.
- Utilized a innovative representation of directional distance fields to achieve 3D rendering and reconstruction.