

# LIAO SHEN(申立奥)

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## EDUCATION

**Huazhong University of Science and Technology (HUST)**, Wuhan, China 2023.09 - Present

Master student in Artificial Intelligence and Automation (AIA)

GPA: 91.78/100.00 (rank: 8/90)

Advisor: Prof. Zhiguo Cao

**Huazhong University of Science and Technology (HUST)**, Wuhan, China 2019.09 – 2023.06

B.S. in Automation

GPA: 92.24/100.00 (rank: 6/79)

## INTERNSHIP

**Nanyang Technological University**, Singapore 2025.01 – 2025.07

Project Officer

Advisor: Prof. Chen Change Loy

## PUBLICATIONS

My research focuses on 3d computer vision, AI Generative Content (AIGC) and bokeh rendering.

- [1] **DoF-Gaussian: Controllable Depth-of-Field for 3D Gaussian Splatting**  
Liao Shen, Tianqi Liu, Huiqiang Sun, Jiaqi Li, Zhiguo Cao, Wei Li, Chen Change Loy  
*The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2025* [**CVPR 2025**]
- [2] **DreamMover: Leveraging the Prior of Diffusion Models for Image Interpolation with Large Motion**  
Liao Shen, Tianqi Liu, Huiqiang Sun, Xinyi Ye, Baopu Li, Jianming Zhang, Zhiguo Cao  
*European Conference on Computer Vision 2024* [**ECCV 2024**]
- [3] **Make-It-4D: Synthesizing a Consistent Long-Term Dynamic Scene Video from a Single Image**  
Liao Shen, Xingyi Li, Huiqiang Sun, Juewen Peng, Ke Xian, Zhiguo Cao, Guosheng Lin  
*The 31st ACM International Conference on Multimedia* [**ACM MM 2023**]
- [4] **CH3Depth: Efficient and Flexible Depth Foundation Model with Flow Matching**  
Jiaqi Li, Yiran Wang, Jinghong Zheng, Junrui Zhang, Liao Shen, Tianqi Liu, Zhiguo Cao  
*The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2025* [**CVPR 2025**]
- [5] **Video Bokeh Rendering: Make Casual Videography Cinematic**  
Yawen Luo, Min Shi, Liao Shen, Yachuan Huang, Zixuan Ye, Juewen Peng, Zhiguo Cao  
*The 32st ACM International Conference on Multimedia* [**ACM MM 2024 Best paper Candidate**]
- [6] **DyBluRF: Dynamic Neural Radiance Fields from Blurry Monocular Video**  
Huiqiang Sun, Xingyi Li, Liao Shen, Xinyi Ye, Ke Xian, Zhiguo Cao  
*The IEEE/CVF Conference on Computer Vision and Pattern Recognition 2024* [**CVPR 2024**]
- [7] **MVSGaussian: Fast Generalizable Gaussian Splatting Reconstruction from Multi-View Stereo**  
Tianqi Liu, Guangcong Wang, Shoukang Hu, Liao Shen, Yuhang Zang, Zhiguo Cao, Wei Li, Ziwei Liu  
*European Conference on Computer Vision 2024* [**ECCV 2024**]
- [8] **Free4D: Tuning-free 4D Scene Generation with Spatial-Temporal Consistency** [Pre-print]  
Tianqi Liu, Zihao Huang, Zhaoxi Chen, Guangcong Wang, Shoukang Hu, Liao Shen, Huiqiang Sun, Zhiguo Cao, Wei Li, Ziwei Liu

## COMPETITIONS

- **TRICKY 2024 Monocular Depth from Images of Specular and Transparent Challenge** 2024  
ECCV Workshop, Winner Award

- **NTIRE 2023 Bokeh Effect Transformation Challenge**  
CVPR Workshop, Winner Award

2023

## AWARDS & HONORS

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|---|------|
| • National Scholarship(Top 1%)                      | 2024 |
| • First-Class Scholarship for Postgraduates, HUST   | 2023 |
| • Honours Degrees (Top 3%), HUST                    | 2023 |
| • Outstanding Undergraduates Student (Top 1%), HUST | 2021 |
| • Merit Undergraduate (Top 7%), HUST                | 2019 |

## SKILLS

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- **Programming:** Python, Matlab
- **Tools:** PyTorch, Latex, Linux
- **Languages:** Mandarin- Native speaker, English- Fluent

## MISCELLANEOUS

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- **Homepage:** <https://leoshen917.github.io/>
- **GitHub:** <https://github.com/leoShen917>
- **Google Scholar:** <https://scholar.google.com/citations?user=bEi3j64AAAAJ>