LIAO SHEN

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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)

RESEARCH INTERESTS

- **3D vision**: Image animation; 3D scene representation
- **Diffusion Model**: Image editing

PUBLICATIONS

[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
European Conference on Computer Vision 2024[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 2024 [**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] **Towards Robust Monocular Depth Estimation in Non-Lambertian Surfaces**
Junrui Zhang, Jiaqi Li, Yachuan Huang, Yiran Wang, Jinghong Zheng, Liao Shen, Zhiguo Cao
European Conference on Computer Vision Workshops, 2024 [**ECCVW 2024**]

[9] **Selective Bokeh Effect Transformation**
Juewen Peng, Zhiyu Pan, Chengxin Liu, Xianrui Luo, Huiqiang Sun, Liao Shen, Ke Xian, Zhiguo Cao
The IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops, 2023 [**CVPRW 2023**]

COMPETITIONS

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

- **NTIRE 2023 Bokeh Effect Transformation Challenge, CVPRW**   2023
  Winner Award

- **America Undergraduate Mathematical Contest in Modeling (MCM)**   2021
  Honorable Mention

Awards & Honors

- 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

- **Programming**: Python, Matlab
- **Tools**: PyTorch, Latex, Linux

Miscellaneous

- **Homepage**: https://leoshen917.github.io/
- **GitHub**: https://github.com/leoShen917
- **Google Scholar**: https://scholar.google.com/citations?user=bEi3j64AAAAJ
- **Languages**: Mandarin - Native speaker, English - Fluent