

LIAO WANG

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INTRODUCTION

I received my Bachelor of Computer Science and Technology at ShanghaiTech University. Now I am the Ph.D. candidate at ShanghaiTech University where I am advised by Prof. Jingyi Yu and Prof. Lan Xu. I am passionate about exploring novel ideas and implement them. My research interest lies in 3d reconstruction and computer graphics, including neural rendering, dynamic scene reconstructing. Recently, I am focused on using neural radiance field based methods to perform fast dynamic scene reconstruction.

EDUCATION

ShanghaiTech University

2020 - Present

Ph.D. Candidate, Major in Computer Graphics

Advisor: Professor Jingyi Yu, Professor Lan Xu

GPA 3.57/4.0

University of California, Berkeley

2018.7 - 2018.8

Summer Session

GPA 4.0/4.0

ShanghaiTech University

2016-2020

Bachelor, Major in Computer Science

GPA 3.56/4.0

EXPERIENCE

Meta Intern

2022.8.15 - 2023.1.27

Teaching Assistant of Deep Learning

- Shared responsibility for recitations, coursework and project consulting.

PUBLICATIONS

- Fourier PlenOctrees for Dynamic Radiance Field Rendering in Real-time.
Liao Wang, Jiakai Zhang, Xinhang Liu, Fuqiang Zhao, Yanshun Zhang, Yingliang Zhang, Minye Wu, Jingyi Yu, Lan Xu,
(CVPR 2022 Oral) [[Project](#) | [Paper](#)]
- iButter: Neural Interactive Bullet Time Generator for Human Free-viewpoint Rendering.
Liao Wang, Ziyu Wang, Pei Lin, Yuheng Jiang, Xin Suo, Minye Wu, Lan Xu, Jingyi Yu
(ACM MM 2021 Oral) ACM Multimedia [[Project](#) | [Paper](#)]
- MirrorNeRF: One-shot Neural Portrait Radiance Field from Multi-mirror Catadioptric Imaging.
Ziyu Wang, **Liao Wang**, Fuqiang Zhao, Minye Wu, Lan Xu, Jingyi Yu
(ICCP 2021) International Conference on Computational Photography [[Paper](#)]
- Neural Opacity Point Cloud.
Cen Wang, Minye Wu, Ziyu Wang, **Liao Wang** , Hao Sheng, Jingyi Yu
(TPAMI 2020)IEEE Transactions on Pattern Analysis and Machine Intelligence [[Project](#) | [Paper](#)]

PROJECTS

Rendering radiance field on Looking Glass in Real-time

Built up a Looking Glass Radiance Field Viewer. It enables an immersive and interactive viewing experience for the neural radiance field on the light field displays.

Neural Reflectance Fields for Appearance Acquisition ++

Reproduce Neural Reflectance Fields for Appearance Acquisition and improve its results.

3D Human Reconstruction using a Dome System

Using more than 60 cameras to construct a dome system for multi-view stereo reconstruction. My work focuses on 3D human modeling and rendering.

AWARDS

National Undergraduate Mathematical Modeling Competition Undergraduate Group 2nd Prize *2018.10*

National College Students Mathematical Modeling Competition Shanghai Division Undergraduate Group 1st Prize *2018.10*

Shanghaitech University Excellent Student title *2018*

Shanghaitech University Excellent Scholarship *2017*

Shanghai International Geek Competition Hard Technology · Creating Future Vehicle Network Smart Application Darkhorse Competition 3rd Prize *2018.10*

TECHNICAL SKILLS

Programming Languages

Python (Pytorch), C, C++ (CUDA)

Softwares & Tools

Visual Studio, Pycharm, Jupyter Notebook, Android Studio

Matlab, Agisoft, RealityCapture

Adobe Photoshop, Premiere

Others

Latex, Markdown