

# LIAO WANG

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## EDUCATION

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### ShanghaiTech University

2020 - Present

Ph.D. Candidate, Major in Computer Vision and Graphics

Advisor: Professor Jingyi Yu

### University of California, Berkeley

2018.7 - 2018.8

Summer Session

### ShanghaiTech University

2016-2020

Bachelor, Major in Computer Science

## PUBLICATIONS

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- Fourier PlenOctrees for Dynamic Radiance Field Rendering in Real-time.  
**Liao Wang**, Jiakai Zhang, Xinhang Liu, Fuqiang Zhao, Yanshun Zhang, Yingliang Zhang, Minye Wu, Lan Xu, Jingyi Yu  
(Arxiv 2022) [[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 2020) 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

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### 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.

## EXPERIENCE

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### Teaching Assistant of Deep Learning

- Shared responsibility for recitations, coursework and project consulting.

## AWARDS

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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

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<b>Programming Languages</b>	Python (Pytorch), C, C++ (CUDA)
<b>Softwares &amp; Tools</b>	Visual Studio, Pycharm, Jupyter Notebook, Android Studio Matlab, Agisoft, RealityCapture
<b>Others</b>	Adobe Photoshop, Premiere Latex, Markdown

## REFERENCES

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**Prof. Jingyi Yu** Supervisor, IEEE Fellow ShanghaiTech University yujingyi@@shanghaitech.edu.cn