Yaoan Gao (高耀安)

Ph.D. Candidate at Zhejiang University ⊠ yaoangao@zju.edu.cn | 📮 +86 15727279502 | 😭 yaoangao.com

EDUCATION

Zhejiang University (ZJU) *Ph.D. in Computer Science and Technology*

- Advisor: Prof. Weiwei Xu
- Lab: State Key Laboratory of CAD&CG, Zhejiang University
- Interest: Inverse Rendering, Real-Time Rendering

Xi'an Jiaotong University (XJTU)

BSc in Automation

• GPA: 3.98/4.3

University of Wisconsin-Madison (UW-Madison)

Visiting Internation Student Program

• GPA: 4.0/4.0

SKILLS

Programming : Python (PyTorch), C/C++ (OpenGL / CUDA / OptiX), Matlab, Latex...Software : PhotoShop, Premiere Pro, Unity, Blender, Maya, Substance Painter...Language: Chinese (native), English (as working language), Japanese(some knowledge of)

PUBLICATIONS

TOG	SAILOR: Synergizing Radiance and Occupancy Fields for Live Human Performance Capture Zheng Dong, Ke Xu, Yaoan Gao , Qilin Sun, Hujun Bao, Weiwei Xu [*] , Rynson W.H. Lau	2023
ICCRD	Comparison and Analysis between Different Versions of FXAA	2022
	Yaoan Gao, Pingping Lin, Renzi Liu	

EXPERIENCE

Ant Group

Algorithm Intern

Exploring how to reconstruct and drive high-quality digital human, mainly in large-scale dynamic scenes

RESEARCH PROJECTS

Light field renderer that supports aperture and depth of field

- Implemented a system that incorporates dynamic parameterization, GLSL-based rendering and optimized data structure for input images
- Support simulation of camera effects: aperture and depth of field
- Improve the system performance: FPS: $200 \rightarrow 700$; GPU Mem: 2.9GB $\rightarrow 1.7$ GB

High-performance real-time ray tracing for inverse rendering

- Implemented a differentiable high-performance real-time ray-tracing system that incorporates neural luminance cache based on Mitsuba2
- Suppress noise, increase the order of indirect lighting while support backward propagation

Hangzhou, China September 2022 - Present

Xi'an, China September 2018 - July 2022

Madison, U.S. September 2019 - December 2019

> Hangzhou, China April 2023 - Present

June 2021 - September 2021

November 2021 - June 2022