Guangyan Cai

☑ gcai3@uci.edu • **②** guangyancai.github.io

Education

University of California, Irvine

Irvine, CA

Ph.D in Computer Science

2020-Present

o Supervisor: Shuang Zhao

University of California, San Diego

La Jolla, CA

B.S. in Computer Science

2016-2020

o Supervisor: Ravi Ramamoorthi

o Cumulative GPA: 3.6 / 4.0 (Major GPA: 3.9 / 4.0)

o Undergraduate Awards for Excellence in Research: 2020

o Provost's Honors: 2016-2020

Publications

[1] Lifan Wu, Guangyan Cai, Ravi Ramamoorthi, and Shuang Zhao. 2020. Analytic spherical harmonic gradients for real-time rendering with many polygonal area lights. ACM Trans. Graph., 39, 4, (July 2020). Presented at SIGGRAPH 2020.

[2] Lifan Wu*, Guangyan Cai*, Ravi Ramamoorthi, and Shuang Zhao. 2021. Differentiable time-gated rendering. ACM Trans. Graph., 40, 6, (December 2021). Presented at SIGGRAPH Asia 2021.

Reviewer

Eurographics: 2022

Teaching

CS112 Introduction to Computer Graphics: TA 2021 Fall, UCI CS143A Principles of Operating Systems: TA 2021 Spring, UCI CS143B Project in Operating System Organization: TA 2021 Winter, UCI CS143B Project in Operating System Organization: Reader 2020 Fall, UCI CSE168 Computer Graphics II - Rendering: Tutor 2020 Spring, UCSD **CSE167 Computer Graphics**: Tutor 2019 Fall & 2020 Winter, UCSD

Skills

Programming Languages: C++, Python, Java, LATEX

Software and Applications: NumPy, PyTorch, Matplotlib, Enoki, Mitsuba, Blender