Guangyan Cai

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Education

University of California, Irvine   **Irvine, CA**
Ph.D in Computer Science   *2020–Present*
○ Supervisor: Shuang Zhao

University of California, San Diego   **La Jolla, CA**
B.S. in Computer Science   *2016–2020*
○ Supervisor: Ravi Ramamoorthi
○ Cumulative GPA: 3.6 / 4.0 (Major GPA: 3.9 / 4.0)
○ Undergraduate Awards for Excellence in Research: 2020
○ Provost's Honors: 2016-2020

Publications

[1]   Lifan Wu, **Guangyan Cai**, Shuang Zhao, and Ravi Ramamoorthi. 2020. Analytic spherical harmonic gradients for real-time rendering with many polygonal area lights. 39, 4, Article 134, 14 pages.

[2]   Lifan Wu*, **Guangyan Cai***, Ravi Ramamoorthi, and Shuang Zhao. 2021. Differentiable time-gated rendering. *ACM Trans. Graph.*, 40, 6, 287:1–287:16.

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