

ZIHAN YU

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🎓 EDUCATION

University of California, Irvine

Irvine, CA

Ph.D. in Computer Science

2020 – Present

- Supervisor: Prof. Shuang Zhao
- GPA: 4.0/4.0

Columbia University in the City of New York

New York, NY

M.S. in Computer Science

2018 – 2020

- GPA: 4.0/4.0

Tongji University

Shanghai, China

B.S. in Software Engineering

2013 – 2017

- GPA: 89.38/100

📖 PUBLICATIONS

Path-Space Differentiable Rendering of Participating Media

Cheng Zhang*, Zihan Yu*, Shuang Zhao (*equal contribution)

ACM Transactions on Graphics (SIGGRAPH 2021), 40(4), 2021

Efficient Differentiation of Pixel Reconstruction Filters for Path-Space Differentiable Rendering

Zihan Yu, Cheng Zhang, Derek Nowrouzezahra, Zhao Dong, Shuang Zhao

ACM Transactions on Graphics (SIGGRAPH Asia 2022), 41(6), 2022

👜 WORK EXPERIENCE

Meta Reality Labs

Redmond, WA

Research Intern

Jun. 2022 – Sep. 2022

- Research topic: Computer Graphics, Physically Based Rendering, Physically Based Differentiable Rendering

Microsoft Research Asia

Beijing, China

Research Intern

Oct. 2016 – Jun. 2017

- Research topic: Natural Language Processing, Named Entity Recognition

📚 TEACHING

Teaching Assistant, CS112 Introduction to Computer Graphics

Fall 2021, UCI

Teaching Assistant, ICS45C Programming in C++ as a Second Language

Spring 2021, UCI

Reader, CS116 Computational Photography & Computer Vision

Winter 2021, UCI

⚙️ SKILLS

- **Programming Languages:** C, C++, Java, Python, MATLAB, JavaScript, \LaTeX
- **Softwares and Libraries:** PyTorch, Mitsuba, Enoki, Blender, OpenGL, React