ZILIN XU

✉ zilinxu@ucsb.edu 📞 +1 805 280 1230 🔗 https://starry316.github.io 📍6510 El Colegio RD, Apt. 1220, Goleta, CA 93117

EDUCATION

University of California, Santa Barbara, USA   **2023 - Present**
Ph.D. student in Computer Science, supervised by Prof. Ling-Qi Yan

Shandong University, Jinan, China   **2020 - 2023**
Master Degree of Software Engineering, supervised by Prof. Lu Wang
Ranked 1st in the major

Shandong University, Jinan, China   **2016 - 2020**
Bachelor Degree of Software Engineering

RESEARCH AREAS & SKILLS

Research Areas: Rendering, Neural-assist Rendering
Programming Languages: C/C++, Python, Shader languages (Slang/HLSL/GLSL/OGL), CUDA, Java, JS
Technical Skills: Pytorch, Falcor Renderer, Blender, 3DS Max

TEACHING EXPERIENCE

Teaching Assistant of CS190I: Introduction to Offline Rendering   **Winter 2024**
University of California, Santa Barbara

WORK EXPERIENCE

Full-time Intern at Autodesk   **Summer 2024**
Remote from Santa Barbara, CA
Project Topic: Advanced 3D Wood Material and By-example Texture Synthesis in MaterialX.

SELECTED PUBLICATIONS

A Dynamic By-example BTF Synthesis Scheme   **2024**
SIGGRAPH Asia 2024 (conference track)
Zilin Xu, Zahra Montazeri, Beibei Wang, Ling-Qi Yan

Lightweight Neural Basis Functions for All-Frequency Shading   **2022**
SIGGRAPH Asia 2022 (conference track)
Zilin Xu, Zheng Zeng, Lifan Wu, Lu Wang, Ling-Qi Yan

Unsupervised Image Reconstruction for Gradient-Domain Volumetric Rendering   **2020**
Computer Graphics Forum (Proceedings of *Pacific Graphics 2020*)
Zilin Xu, Qiang Sun, Lu Wang, Yanning Xu, Beibei Wang

Non-first author papers:
Ray-aligned Occupancy Map Array for Fast Approximate Ray Tracing   **2023**
Eurographics Symposium on Rendering 2023 (CGF track)
Zheng Zeng, **Zilin Xu**, Lu Wang, Lifan Wu, Ling-Qi Yan

Neural Complex Luminaires: Representation and Rendering   **2021**
ACM Transactions on Graphics (Proceedings of *SIGGRAPH 2021*)
Junqiu Zhu, Yaoyi Bai, **Zilin Xu**, Steve Bako, Edgar Velázquez-Armendáriz, Lu Wang, Pradeep Sen, Miloš Hašan, Ling-Qi Yan

PROFESSIONAL SERVICES

Conference reviewer: *SIGGRAPH Asia 2024, Pacific Graphics 2023, 2024*
Journal reviewer: *Transactions on Visualization and Computer Graphics* (TVCG), *Computer Graphics Forum* (CGF)

SELECTED AWARDS

National Scholarship ($< 1\%$**)**   **2022**
Shandong University Chancellor's Scholarship Nomination ($< 0.1\%$**)**   **2022**
Outstanding Graduate Student Award   **2022**
Weichai Outstanding Graduate Student Scholarship ($< 1\%$**)**   **2021**
First Prize Scholarship of Shandong University   **2021**
Intel Cup **National Software Innovation Competition in China (ranked #17 nationally)**   **2019**