

ZILIN XU

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EDUCATION

University of California, Santa Barbara, USA Ph.D. student in Computer Science, supervised by Prof. Ling-Qi Yan	2023 - Present
Shandong University, Jinan, China Master Degree of Software Engineering, supervised by Prof. Lu Wang Ranked 1st in the major	2020 - 2023
Shandong University, Jinan, China Bachelor Degree of Software Engineering	2016 - 2020

RESEARCH AREAS & SKILLS

Research Areas:	Neural Appearance/Material - Rendering - Computer Graphics
Programming Languages:	C/C++, CUDA, Python, Shader languages (Slang/HLSL/GLSL)
Technical Skills:	Pytorch, Falcor Renderer, Blender, 3DS Max

TEACHING & WORK EXPERIENCE

Research Scientist Intern at Reality Labs, Meta Redmond, WA Project Topic: TBD.	Summer 2025 (Ongoing)
Full-time Intern at Autodesk Remote from Santa Barbara, CA Project Topic: Advanced 3D Wood Material and By-example Texture Synthesis in MaterialX.	Summer 2024
Teaching Assistant of CS190I: Introduction to Offline Rendering University of California, Santa Barbara	Winter 2024

SELECTED PUBLICATIONS

Towards Comprehensive Neural Materials: Dynamic Structure-Preserving Synthesis with Accurate Silhouette at Instant Inference Speed <i>SIGGRAPH 2025</i> Zilin Xu , Xiang Chen, Chen Liu, Beibei Wang, Lu Wang, Zahra Montazeri, Ling-Qi Yan	2025
A Dynamic By-example BTF Synthesis Scheme <i>SIGGRAPH Asia 2024</i> Zilin Xu , Zahra Montazeri, Beibei Wang, Ling-Qi Yan	2024
Lightweight Neural Basis Functions for All-Frequency Shading <i>SIGGRAPH Asia 2022</i> Zilin Xu , Zheng Zeng, Lifan Wu, Lu Wang, Ling-Qi Yan	2022
Unsupervised Image Reconstruction for Gradient-Domain Volumetric Rendering <i>Computer Graphics Forum (Proceedings of Pacific Graphics 2020)</i> Zilin Xu , Qiang Sun, Lu Wang, Yanning Xu, Beibei Wang	2020
Non-first author papers: Ray-aligned Occupancy Map Array for Fast Approximate Ray Tracing <i>Eurographics Symposium on Rendering 2023 (CGF track)</i> Zheng Zeng, Zilin Xu , Lu Wang, Lifan Wu, Ling-Qi Yan	2023
Neural Complex Luminaires: Representation and Rendering <i>ACM Transactions on Graphics (Proceedings of SIGGRAPH 2021)</i> Junqiu Zhu, Yaoyi Bai, Zilin Xu , Steve Bako, Edgar Velázquez-Armendáriz, Lu Wang, Pradeep Sen, Miloš Hašan, Ling-Qi Yan	2021

PROFESSIONAL SERVICES

Conference reviewer:	<i>SIGGRAPH, SIGGRAPH Asia, Eurographics (EG), Pacific Graphics (PG)</i>
Journal reviewer:	<i>Transactions on Graphics (TOG), Transactions on Visualization and Computer Graphics (TVCG), Computer Graphics Forum (CGF)</i>

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