

YIBO YIN

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EDUCATION

Wuhan University

B.S. in Computer Science and Technology

GPA: 3.94 /4.00 | Average Score: 92.02 /100 | Ranking: 8 /254

Wuhan, China

Sept. 2021 - Present

RESEARCH EXPERIENCE

Graphics and Vision Lab, Wuhan University

May. 2023 - Jan. 2024

Research Assistant

Advisor: Prof. Chunxia Xiao

- Participated in a research project on monocular depth estimation. Assembled equipment with a depth camera and ToF sensors, creating a dataset of over 10,000 images and sensor data.

Xiaohu Guo's Graphics Lab, remotely at the University of Texas at Dallas

April. 2024 - Present

Research Assistant

Advisor: Prof. Xiaohu Guo

- Reproduced the SIGGRAPH paper *Evaluation of Loop Subdivision Surfaces*. Cleaned up and contributed to open-sourcing the code for the SIGGRAPH paper *Q-MAT: Computing Medial Axis Transform by Quadratic Error Minimization*. [Github] Worked on a project involving subdivision surface fitting under medial axis transform.

Waterloo Computer Graphics Lab, remotely at University of Waterloo

June. 2024 - Present

Research Assistant

Advisor: Prof. Toshiya Hachisuka

- Reproduced WoB method for Laplace's equation with Dirichlet boundaries in the SIGGRAPH paper *A Practical Walk-on-Boundary Method for Boundary Value Problems*. Worked on a project involving photon density estimator for partial differential equations (PDEs).

SELECTED PROJECTS

Software Renderer

Mar. 2023 - May. 2023

- Developed the project to deepen knowledge in computer graphics. Implemented the rendering pipeline with techniques such as programmable shaders, shadow mapping and ambient occlusion. [Github]

Interactive Ray Tracer

May. 2023 - June. 2023

- Created as a course project, this application features an interactive GUI allowing users to add spheres with customizable metal and dielectric materials to the scene and render it using Whitted-style ray tracing.

Reproduction of Photon Mapping

Sept. 2023 - Dec. 2023

- Reproduced the Rendering Techniques paper *Global Illumination using Photon Maps* with final gathering technique. [Github]

AWARDS

- Second Class Scholarship** (10% school-wide), Wuhan University Sept. 2022
- Third Class Scholarship** (15% school-wide), Wuhan University Sept. 2023
- Lei Jun Computer Innovation and Development Fund**, Wuhan University June. 2024

TECHNICAL SKILLS

- Languages:** Chinese(Native Speaker), English(TOEFL iBT 102)
- Programming Languages:** C++, C, Python, C#, GLSL, Java
- Software:** Nori, Blender, Pbrt-v3
- Library/Framework:** PyTorch