

YIBO YIN

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EDUCATION

Wuhan University

B.S. in Computer Science and Technology

GPA: 3.94 /4.00 | **Weighted Average Score:** 92.02 /100

Wuhan, China

Sept. 2021 - Present

RESEARCH EXPERIENCE

Graphics and Vision Lab, Wuhan University

May. 2023 - Jan. 2024

Research Assistant

Advised by Prof. Chunxia Xiao

- Took part in a research project related to depth estimation. Assembled the equipment of depth camera and ToF sensors and created a dataset (more than 10k pictures and other information) with the equipment.

Xiaohu Guo's Graphics Lab, remotely at UTD

April. 2024 - Present

Research Assistant

Advised by Prof. Xiaohu Guo

- Participating in a research project with a subject in subdivision surface fitting under medial axis transform and reproduced the 1998 SIGGRAPH paper *Evaluation of Loop Subdivision Surfaces*.

Waterloo Computer Graphics Lab, remotely at University of Waterloo

June. 2024 - Present

Research Assistant

Advised by Prof. Toshiya Hachisuka

- Getting involved in a research project related to photon density estimator for PDEs and reproduced some of the conditions discussed in the 2023 SIGGRAPH paper *A Practical Walk-on-Boundary Method for Boundary Value Problems*.

SELECTED PROJECTS

Software Renderer

Mar. 2023 - May. 2023

- Developed the project for learning basic knowledge in graphics. Followed the rendering pipeline with programmable vertex & fragment shaders, along with some other techniques (shadow mapping, ambient occlusion, etc). *[Github]*

Interactive Simplified Path Tracer

May. 2023 - June. 2023

- Created the project as a course project. With an interactive GUI, users could add spheres with customized materials to the scene and render with a simplified Path Tracing method.

Reproduction of Photon Mapping

Sept. 2023 - Dec. 2023

- Reproduced but made a few changes from the 1996 Rendering Techniques paper *Global Illumination using Photon Maps*. *[Github]*

AWARDS

• **Second Class Scholarship**, Wuhan University

Sept. 2022

• **Third Class Scholarship**, Wuhan University

Sept. 2023

TECHNICAL SKILLS

- **Languages:** Chinese(Native Speaker), English(TOEFL iBT 97)
- **Programming Languages:**(Sort by mastery) C++, C, Python, C#, GLSL, Java
- **Software:** Blender, Pbrt-v3
- **Library/Framework:** PyTorch