

YIBO YIN

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EDUCATION

Wuhan University

Wuhan, China

BS in Computer Science

Sept.2021 - Present

GPA: 3.94/4.00 **Average Score:** 92.03/100 **Rank:** 4/223

Representative courses and scores: *Advanced Mathematics 1&2(94&92), Linear Algebra(96), Probability and Mathematical Statistics(91), Data Structure(90), Advanced Programming Language(93), Computer Graphics(94)*

SELECTED PROJECTS

Software Renderer

- Written in C++.
- It follows basic rendering pipeline and has programmable vertex & fragment shaders.
- It has techniques of texture mapping, back face culling and SSAO.
- **Github:** <https://github.com/bryceyin13/Software-Renderer>

Reproduction of Photon Mapping

- Written in C++.
- It follows but makes a few changes from *Global Illumination using Photon Maps*.
- It has techniques of direct light sampling and final gathering.
- **Github:** https://github.com/bryceyin13/photon_mapping

Interactive Simplified Path Tracer

- Written in C#.
- It has an interactive GUI for users and uses a simplified Path Tracing algorithm.
- **Github:** Coming soon...

CPU Design for RISC-V Instruction Set (Course Project)

- Written in Verilog.
- A five-stage pipeline CPU, including IF/ID/EX/MEM/WB stages.
- It has the ability to run basic instructions of RISC-V.
- **Github:** <https://github.com/bryceyin13/WHU-ComputerOrganizationDesign-lab>

RESEARCH EXPERIENCE

Chunxia Xiao's Graphics and Vision Lab Wuhan University

May.2023 - Feb.2024

Research Intern Research Area: Monocular Depth Estimation

- I led a whole project.
- I assembled equipment of depth camera and ToF sensors. Then I collected, processed data and formed a dataset (more than 10k pictures and other supporting data).
- I independently reproduced several SoTA CV papers and conducted many experiments about new ideas.

TECHNICAL SKILLS

- **Languages:** Chinese(native), English(TOEFL 94)
- **Programming Languages:** C++, C, Python, GLSL
- **Graphics API:** OpenGL

SELECTED AWARDS

University Scholarship, 2nd class

Sept.2022

University Scholarship, 3rd class

Sept.2023