

Zoubin Bi

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Education

Zhejiang University

M.Sc of Software Engineering

Sep. 2022 – Present.

Zhejiang University

B.Eng of Computer Science

Aug. 2018 – Jun. 2022

Experience

Research Assistant

State Key Lab of CAD&CG, Zhejiang University, China

Sep. 2022 – Present.

- Research Topic: Compressive sensing and optical system calibration.
- Co-design and co-optimize software-hardware to accelerate geometry acquisition and reconstruction.
- Advisor: Prof. Hongzhi Wu.

Bachelor Thesis

State Key Lab of CAD&CG, Zhejiang University, China

Sep. 2021 – Apr. 2022

- Research Topic: Boost local feature matching with global information.
- Advisor: Prof. Hongzhi Wu.

Research

Differentiable Dynamic Visible-Light Tomography

Research Paper (SIGGRAPH Asia 2023) <https://svbrdf.github.io/publications/dynamicCT/project.html>

- Joint first author.

Real-time Acquisition and Reconstruction of Dynamic Volumes with Neural Structured Illumination

Research Paper (Under Review at CVPR 2024)

- Joint first author.

Projects

Computer Cluster

A Small-Scale Computer Cluster for Research

Mar. 2023 – Apr. 2023

- Set up a computer cluster by NIS and NFS.
- Use ansible to make server maintenance more efficient and convenient.
- Achieved consistent environment and 10 Gbps speed across different nodes.

MediConnect

ZJU 2021 Software Engineering Project

Mar. 2021 – Jun. 2021

- Developed a full-stack web application with echo serving as a REST API with React as the frontend. (<https://github.com/dendenxu/MediConnect-Front>)
- Designed the ER diagram supporting complex logic like cascade choice and implemented database with postgresql, backend with golang. (<https://github.com/AsterNighT/software-engineering-backend>)

Self-design CPU

ZJU 2020 Computer Architecture Project

Sep. 2020 – Jan. 2021

- Designed a five-stage pipeline using RISC-V Arch as one of the first five students attempting to explore new architecture at Zhejiang University.
- Designed a L2-cache for this pipeline.

Technical Skills

Languages: C/C++, Python, Java, Golang

Web Development: Echo, RestAPI, PostgreSQL, MySQL, Postman

Computer Graphics & Computer Vision: OpenGL, OpenCV

Data Science, Machine Learning & Deep Learning: NumPy, PyTorch, Pandas, SkLearn

Electronic Design & Embedded Systems: Verilog, RISC-V, ZYNQ, Arduino

System Maintenance: Linux, Docker, Ansible

Tools: Git, GDB, Latex, VS Code, Visual Studio