

Wenqi Wang

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EDUCATION

Tsinghua University

2020 - present

B.Eng. in Computer Science and Technology

(GPA: 3.79/4.0)

EXPERIENCE

Research Assistant

Jun. 2023 - present

GrUVi Lab, Simon Fraser University

Advised by **Prof. Hao (Richard) Zhang**

CAD Shape Decomposition:

- Propose an innovative differentiable pipeline for CAD shape decomposition into a construction sequence.
- Investigate boolean operations to enhance the expressiveness and flexibility of the decomposition.
- Explore sketch-extrude primitives to get a more structured and easy-to-edit geometry from the object.

Single View Reconstruction by Slice Images:

- Develop a pipeline that predicts sliced images of an object using diffusion models.
- Compare our method with other state-of-the-art alternatives, demonstrating its superior performance.

Research Intern

Sept. 2022 - Mar. 2023

Megvii Research, Vision Model Group

Mentored by **Tong Yang**

- Explored on the variational auto-encoders and diffusion models for image generation.
- Contributed to the open source project and community.

Research Assistant

Sept. 2021 - Mar. 2022

Institute of AI Industry Research, Tsinghua University

Federated Learning Group

- Implemented the prototype learning in Federated Learning frame.
- Explored to use few-shot learning to label the distributed data at edge devices.

Teaching Assistant: Calculus A

Mar. 2021 - Jun. 2021

PROJECTS

AI Gaming Platform & Agent Competition Games

[Link](#)

Develop agent competition games and maintain website where students can submit their agents to fight.

Conditional Image Generation based on Jittor

[Link](#)

A model course project of Fundamentals of Computer Graphics.

Voxel Art in Taichi Language

[Link](#)

A little ray-traced Taichi rendered voxel-art in 180 lines.

PUBLICATIONS

Yizhi Wang, Wallace Lira, **Wenqi Wang**, Ali Mahdavi-Amiri, Hao Zhang, "Slice3D: Multi-Slice, Occlusion-Revealing, Single View 3D Reconstruction", arXiv: [2312.02221 \[cs.CV\]](#)

HONORS AND AWARDS

Social Work Excellence Scholarship

Tsinghua University, 2023

Social Practice Excellence Scholarship

Tsinghua University, 2021

Exllence Entrance Scholarship

Tsinghua University, 2020

SKILLS

Language C/C++, Python, Java, Javascript, Bash, SQL, SystemVerilog

Tools Pytorch, Tensorflow, Unity, Blender, Git, CMake

Misc Photography, Soccer, Harmonica