

Shuo Chen

[Github](#) | [Homepage](#) | [Email](#)

RESEARCH EXPERIENCE

- TSAIL, Tsinghua University** Oct. 2023 - Present
Internship in Computer Vision, advised by Prof. [Hang Su](#)
- Computational Cognition, Vision, and Learning, JHU** June 2023 - Dec. 2023
Internship in Computer Vision, advised by Prof. [Alan L. Yuille](#)

PROJECTS

- CRM: Single Image to 3D Textured Mesh with Convolutional Reconstruction Model** Oct. 2023 - Mar. 2024
arXiv:2403.05034
- Use six orthographic images as input images to reconstruct 3D contents.
 - use a U-Net convolutional network to map the input images to a rolled-out triplane by exploring the strong pixel-level alignment 3 between the input and output.
 - Our model can generate a high-fidelity textured mesh from an image in just 10 seconds, without any test-time optimization.

- Physics-based Optimization for Visual Reasoning** June 2023 - Dec. 2023
Internship in Computer Vision
- Build a physics simulation simulator that generates scene images consistent with the physical world.
 - Pose-estimation task consistent with physical world.
 - Scene representation, relational and temporal models for reasoning.

EDUCATION

- 2020.9 - Present **Tsinghua University**
B.S. in Mathematics and Physics (GPA: 3.71/4.0)
- 2023.7 - 2023.9 **Johns Hopkins University**
Summer research program in Computer Vision

TEACHING

- TA, Calculus A at Tsinghua University** Fall 2022
- TA, Calculus A at Tsinghua University** Fall 2023

SKILLS

- 3D Vision **Pytorch3D, PyBullet, Blender**
- Deep learning **Pytorch, TensorFlow, Open3D**

SELECTED HONORS

- First Level Scholarship of Tsinghua University** October 2021