Shuo Chen

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RESEARCH EXPERIENCE

Computational Cognition, Vision, and Learning, Johns Hopkins University — June 2023 - Present
Internship in Computer Vision, advised by Prof. Alan L. Yuille

Department of Electronic Engineering, Tsinghua University — November 2022- May 2023
Internship in Computer Vision, advised by Prof. Lu Fang

Department of Electronic Engineering, Tsinghua University — July 2022 - November 2022
Internship in Computer Vision, advised by Prof. Yueqi Duan

PROJECTS

Physics-based Optimization for Visual Reasoning — June 2023 - Present
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.

MVS-NeRF with semantic segmentation — July 2022 - November 2022
Internship in Computer Vision

Integrating MVS-NeRF and Semantic-NeRF as baselines from the perspective of improving NeRF generalization.

EDUCATION

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

SKILLS

Programming Languages	**C, C++, Python, Matlab, JavaScript**
Deep learning	**Pytorch, TensorFlow, Torchvision, Open3D, Pytorch3D, PyBullet, Blender**

SELECTED HONORS

Second Level Scholarship of Weiyang College — October 2022

Third prize in APMCM — December 2021

First Level Scholarship of Tsinghua University — October 2021