

Yiming ZUO

zuoym@princeton.edu ◇ 412-915-0860 ◇ zuoym15.github.io

EDUCATION

Princeton University

Princeton, NJ, USA

Ph.D. in Computer Science

08/2021 - Present

- Research Advisor: Prof. Jia Deng

Carnegie Mellon University

Pittsburgh, PA, USA

M.S. in Robotics (MSR)

08/2019 - 08/2021

- Research Advisor: Prof. Katerina Fragkiadaki
- GPA: 4.19/4.33

Tsinghua University

Beijing, China

B.Eng. in Electronic Engineering (with honors)

09/2015 - 07/2019

- GPA: 3.80/4.00, Ranking: 21/246 (top 10%)

RESEARCH INTERESTS

My research focus is 3D computer vision. I'm especially interested in 3D scene reconstruction and relevant techniques, including monocular view depth estimation, depth completion, and multi-view scene reconstruction and rendering. My long-term research goal is to create an immersive user experience for augmented reality and telepresence on edge devices.

PUBLICATIONS

- **Yiming Zuo***, Karhan Kayan*, Maggie Wang, Kevin Jeon, Jia Deng, Thomas L. Griffiths. Towards Foundation Models for 3D Vision: How Close Are We? *3DV* 2025.
- **Yiming Zuo**, Jia Deng. OGNI-DC: Robust Depth Completion with Optimization-Guided Neural Iterations. *ECCV* 2024.
- Alexander Raistrick*, Lingjie Mei*, Karhan Kayan*, David Yan, **Yiming Zuo**, Beining Han, Hongyu Wen, Meenal Parakh, Stamatis Alexandropoulos, Lahav Lipson, Zeyu Ma, Jia Deng. Infinigen Indoors: Photorealistic Indoor Scenes using Procedural Generation. *CVPR* 2024.
- Alexander Raistrick*, Lahav Lipson*, Zeyu Ma*, Lingjie Mei, Mingzhe Wang, **Yiming Zuo**, Karhan Kayan, Hongyu Wen, Beining Han, Yihan Wang, Alejandro Newell, Hei Law, Ankit Goyal, Kaiyu Yang, Jia Deng. Infinite Photorealistic Worlds using Procedural Generation. *CVPR* 2023.
- (Notable top 5% / Oral) **Yiming Zuo**, Jia Deng. View Synthesis with Sculpted Neural Points. *ICLR* 2023.
- Adam Harley, **Yiming Zuo**, Jing Wen, Ayush Mangal, Shubhankar Potdar, Ritwick Chaudhry, Katerina Fragkiadaki. Track, Check, Repeat: An EM Approach to Unsupervised Tracking. *CVPR* 2021.
- **Yiming Zuo***, Weichao Qiu*, Lingxi Xie, Fangwei Zhong, Yizhou Wang, Alan Yuille. CRAVES: Controlling Robotic Arm with a Vision-based Economic System. *CVPR* 2019.
- Xuecheng Nie, Jiashi Feng, **Yiming Zuo**, Shuicheng Yan. Human Pose Estimation with Parsing Induced Learner. *CVPR* 2018.

VISITING POSITIONS

Johns Hopkins University

Baltimore, MD, USA

Visiting Research Student

06/2018 - 08/2018

- Research Advisor: Prof. Alan Yuille

National University of Singapore

Singapore

Exchange Student

08/2017 - 12/2017

- Research Advisor: Dr. Jiashi Feng
- GPA: 5.0/5.0 (all five courses graded A+)

TEACHING EXPERIENCE

- COS 226 (Algorithms and Data Structures), Princeton University, Prof. Kevin Wayne and Prof. Dan Leyzberg, Spring 2023
- COS 451 (Computational Geometry), Princeton University, Prof. Bernard Chazelle, Fall 2022
- Media and Cognition, Tsinghua University, Prof. Shengjin Wang, Fall 2018

ACADEMIC SERVICES

- Reviewer for CVPR 24/23, ECCV 24, ICCV 23, NeurIPS 24, ICLR 25, ICML 22, 3DV 25, ICRA 22/21

ACADEMIC AWARDS

- Outstanding Undergraduate (Bachelor's Degree with Honors), top 10% students, Tsinghua University, 2019
- Tsinghua Research Excellence Award, top 5%, Tsinghua University, 2018
- Tsinghua Academic Excellence Award, top 5%, Tsinghua University, 2018
- Qualcomm Scholarship (60 among 3000, top 2%), Qualcomm, Inc & Tsinghua University, 2017
- Wong Lo-Kat Scholarship for Outstanding Academic Performance, Wong Lo-Kat, Inc & Tsinghua University, 2017
- First Prize, Chinese High School Biology Olympiad, Zoological and Botanical Society of China, 2014

SKILLS

- Professional experience with deep-learning frameworks (PyTorch).
- Professional skill in 3D engines (especially modeling with Blender using Geometry nodes).
- Mathematics: Probability theory, Stochastic Process, Calculus, Linear Algebra, and Game Theory
- Fluent Speaker: English, Mandarin; beginner: Japanese.