

# Yiming ZUO

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## EDUCATION

### Princeton University

Princeton, NJ, USA

Ph.D. Candidate 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 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**, Willow Yang, Zeyu Ma, Jia Deng. "OMNI-DC: Highly Robust Depth Completion with Multiresolution Depth Integration." *ICCV 2025*.
- Hongyu Wen, **Yiming Zuo**, Venkat Subramanian, Patrick Chen, Jia Deng. "Seeing and Seeing Through the Glass: Real and Synthetic Data for Multi-Layer Depth Estimation." *ICCV 2025*.
- Karhan Kayan\*, Stamatis Alexandropoulos\*, Rishabh Jain, **Yiming Zuo**, Erich Liang, Jia Deng. "Princeton365: A Diverse Dataset with Accurate Camera Pose." *ICCV 2025*.
- Abhishek Joshi, Beining Han, Jack Nugent, **Yiming Zuo**, Jonathan Liu, Hongyu Wen, Stamatis Alexandropoulos, Tao Sun, Alexander Raistrick, Gaowen Liu, Yi Shao, Jia Deng. "Infinigen-Sim: Procedural Generation of Articulated Simulation Assets." *Arxiv: 2505.10755*.
- **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%, a.k.a. 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

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### **Apple Inc.**

Research Intern

Santa Clara, CA, USA

04/2025 - 09/2025

- Supervisors: Dr. Vladlen Koltun and Dr. Stephan R. Richter

### **Johns Hopkins University**

Visiting Researcher

Baltimore, MD, USA

06/2018 - 08/2018

- Research Advisor: Prof. Alan Yuille

### **National University of Singapore**

Exchange Student

Singapore

08/2017 - 12/2017

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

## TEACHING EXPERIENCE

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- 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

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- Reviewer for CVPR 23-26, ECCV 24, ICCV 23/25, NeurIPS 24-25, ICLR 25-26, ICML 22, 3DV 25, ICRA 21-22

## ACADEMIC AWARDS

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- 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

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- Professional experience with deep-learning frameworks (PyTorch).
- Professional skills in 3D engines (especially modeling with Blender using Geometry Nodes).
- Mathematics: Probability Theory, Stochastic Process, Calculus, Linear Algebra.
- Fluent speaker: English, Mandarin; beginner: Japanese.
- Photography, especially wildlife and birds.