

TIANYUAN ZHANG

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5000 Forbes Ave, Pittsburgh, PA 15213

EDUCATION

Carnegie Mellon University, U.S.

2021.9 - 2023.5

Master

Advisor: Prof. Srinivasa Narasimhan

M.S. in Robotics. Robotics Institute, School of Computer Science

Peking University, China

2016.9 - 2020.6

Undergraduate

B.S., Department of Computer Science, School of Electronics Engineering and Computer Science

RESEARCH INTEREST

Physics-based vision, Inverse Graphics, Content Creation and Editing, Computational Imaging, Representation Learning.

PUBLICATIONS

(*: equal contribution)

Interpreting Adversarially Trained Convolutional Neural Networks

Tianyuan Zhang, Zhanxing Zhu

International Conference on Machine Learning (ICML), 2019

You Only Propagate Once: Accelerating Adversarial Training via Maximal Principle

Dinghuai Zhang*, Tianyuan Zhang*, Yiping Lu*, Zhanxing Zhu, Bin Dong.

33rd Annual Conference on Neural Information Processing Systems (NeurIPS 2019)

Objects365: A Large-scale, High-quality Dataset for Object Detection

Shuai Shao*, Zeming Li*, Tianyuan Zhang*, Chao Peng*, Gang Yu, Xiangyu Zhang, Jing Li, Jian Sun.

International Conference on Computer Vision (ICCV), 2019

DETR3D: 3D Object Detection from Multi-view Images via 3D-to-2D Queries

Yue Wang, Vitor Guizilini*, Tianyuan Zhang*, Yilun Wang, Hang Zhao, Justin Solomon

CoRL 2021.

Embracing Single Stride 3D Object Detector with Sparse Transformer

Lue Fan, Ziqi Pang, Tianyuan Zhang, Yu-Xiong Wang, Hang Zhao, Feng Wang, Naiyan Wang, Zhaoxiang Zhang

CVPR 2022.

RIFE: Real-Time Intermediate Flow Estimation for Video Frame Interpolation

Zhewei Huang, Tianyuan Zhang, Wen Heng, Boxin Shi, Shuchang Zhou.

ECCV 2022.

EXPERIENCE

Robotics Institute, CMU

Research Assistant

2021.10 - present

Mentor: Prof. Srinivasa Narasimhan

Shanghai Qizhi Research Institute

Research Assistant on Autonomous Driving

2021.5 - 2021;9

Mentor: Prof. Hang Zhao

Bytedance AI Lab

Research Engineer

2020.6 - 2021.3

Microsoft Research Asia

Research Intern

2020.1 - 2020.6

Mentor: Dr. Dihe & Dr.Guolin Ke

Megvii(Face++) Research

Research Intern

2018.3 - 2020.1

Mentor: Dr.Xiangyu Zhang

Center for Big Data, Peking University

Research Assistant

2018.2 - 2020.6

Mentor: Prof.Zhanxing Zhu

HONORS AND AWARDS

Bronze Medal, Chinese Mathematical Olympiad (CMO), December 2015

Merit Student, Peking University 2016-2017

Leo Koguan Scholarship 2016-2017

WuSi Scholarship 2017-2018

Lihuirong Scholarship 2018-2019

Merit Student, Peking University, 2018-2019