ZIYI WU

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EDUCATION

University of Toronto, Toronto, Canada *Sept. 2021 – Present*
Ph.D. in Computer Science
Advisor: Prof. Animesh Garg & Prof. Andrea Tagliasacchi

Tsinghua University, Beijing, P.R.China *Aug. 2017 – Jun. 2021*
B.Eng. in Automation
Advisor: Prof. Jiwen Lu

PUBLICATIONS & MANUSCRIPTS

1. **Ziyi Wu***, Yueqi Duan*, He Wang, Qingnan Fan, Leonidas J. Guibas.
   IF-Defense: 3D Adversarial Point Cloud Defense via Implicit Function based Restoration
   Submitted to *IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI).*

2. Ziwei Wang, Yunsong Wang, **Ziyi Wu**, Jiwen Lu, Jie Zhou.
   Instance Similarity Learning for Unsupervised Feature Representation
   IEEE International Conference on Computer Vision (ICCV), 2021.

3. Ziwei Wang, Jiwen Lu, **Ziyi Wu**, Jie Zhou.
   Learning Efficient Binarized Object Detectors with Information Compression
   IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI), 2021.

4. Ziwei Wang, **Ziyi Wu**, Jiwen Lu, Jie Zhou.
   BiDet: An Efficient Binarized Object Detector
   IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2020.

5. Zimeng Tan, Yongjie Duan, **Ziyi Wu**, Jianjiang Feng, Jie Zhou.
   A Cascade Regression Model for Anatomical Landmark Detection
   Medical Image Computing and Computer Assisted Intervention (MICCAI) Workshop, 2019.

6. Zhanwei Xu, **Ziyi Wu**, Jianjiang Feng.
   CFUN: Combining Faster R-CNN and U-net Network for Efficient Whole Heart Segmentation
   arXiv, 2018

EXPERIENCE

SenseTime Ltd. *Mar. 2021 – Aug. 2021*
Research Intern Mentor: Dr. Kai Chen & Wenwei Zhang
Open source codebase for 3D scene understanding (MMDetection3D)

Stanford University *Jun. 2020 – Sept. 2020*
Research Intern Supervisor: Prof. Leonidas J. Guibas
3D adversarial attack and defense in point cloud

Tsinghua University *Apr. 2019 – May. 2020*
Undergraduate Researcher Supervisor: Prof. Jiwen Lu
Efficient design for 2D object detectors

SELECTED HONORS

- Outstanding Graduates (Beijing, Tsinghua University & Dept. of Automation), 2021
- SenseTime Undergraduate Scholarship for AI Research, 2020
- Xiaomi Scholarship, Tsinghua University, 2020
- Fang Chongzhi Scholarship, Tsinghua University, 2019
- National Scholarship, Tsinghua University, 2018
- Spark Program Membership, Tsinghua University
- Innovation Award of Science and Technology, Tsinghua University, 2018-2020
- Champion of the 20th Electronic Design Competition, Tsinghua University, 2018