

Yuan YAO

Address	3504 Wegmans Hall, University of Rochester, Rochester, NY, US 14627	GitHub Email	yyNoBug yynobug@gmail.com
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Education

- **Shanghai Jiao Tong University**
2018.9 - 2022.6 B.S. in computer science (ACM Honors Class)
- **University of Rochester**
2022.9 - Ph.D. in computer science supervised by Prof. Jiebo Luo

Research Experience

- **Shanghai Artificial Intelligence Laboratory**
2022.7-2022.9
- **JHU CCVL Research Group, advised by Prof. Alan Yuille**
2021.6 - 2022.1 (*remote*)
- **SJTU Machine Vision and Intelligence Group, advised by Prof. Cewu Lu**
2020.10-2021.5

Publication

- **3D Point Cloud Pre-training with Knowledge Distillation from 2D Images**
Conference: CVPR2023 (Under Review)
Authors: Yuan Yao, Yuanhan Zhang, Zhenfei Yin, Jiebo Luo, Wanli Ouyang, Xiaoshui Huang
Summary: Compared with 2D image datasets, the current pre-training data of 3D point cloud is limited. We propose a knowledge distillation based method for 3D point cloud backbones to directly learn from 2D pre-trained VL models through semantic alignment.
- **Unsupervised Domain Adaptation through Shape Modeling for Medical Image Segmentation**
Conference: MIDL2022
Authors: Yuan Yao, Fengze Liu, Zongwei Zhou, Yan Wang, Wei Shen, Alan Yuille, Yongyi Lu
Summary: VAE network can model the shape distribution of a certain organ. We explicitly incorporate shape information into current segmentation methods to help generate better segmentation results in domain adaptation for medical images.

Teaching Experience

2019 - 2020 Teaching Assistant, Great Ideas in Computer Science

Honors and Scholarships

2018 - 2021 Zhiyuan Honorary Scholarship, Award for top 10% students

2019 - 2022 Academic Excellence Scholarship, Award for top students in academics

2020 Huawei Scholarship, Award for Top students in ACM Honors class