

Wuyang Li

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RESEARCH INTERESTS

Object Detection, Graphical Learning, Domain Adaptation, Open Set

EDUCATION

- **City University of Hong Kong, China** Aug 2020 - Present
Ph.D. in Electrical Engineering
Supervisor: Prof. Yixuan Yuan
- **Tianjin University, China** Sep 2016 - Jun 2020
B.E. in Electrical Engineering
GPA: 3.83/4.0 (Top 2%)
Highlighted Courses: Advanced Mathematics (98/100, Top 1); Probability Theory and mathematical Statistics (100/100, Top 1); Design and Experiment of Electronic System (99/100, Top 1); Selected Explanation of Mathematical Methods (96/100); Project Management (98/100); Integral Transformation (97/100).

PUBLICATIONS

- **SIGMA: Semantic-complete Graph Matching for Domain Adaptive Object Detection**
Wuyang Li, Xinyu Liu, Yixuan Yuan
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022, **Oral Presentation**
- **Towards Robust Adaptive Object Detection under Noisy Annotations**
Xinyu Liu, Wuyang Li, Qiushi Yang, Baopu Li, Yixuan Yuann
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022
- **SCAN: Cross Domain Object Detection with Semantic Conditioned Adaptation**
Wuyang Li, Xinyu Liu, Xiwen, Yao, Yixuan Yuan
The Association for the Advance of Artificial Intelligence (AAAI), 2022, **Oral Presentation**
- **Intervention & Interaction Federated Abnormality Detection with Noisy Clients**
Xinyu Liu, Wuyang Li, Yixuan Yuan
Medical Image Computing and Computer Assisted Intervention (MICCAI), 2022, **Early Accepted**
- **HTD: Heterogeneous Task Decoupling for Two-Stage Object Detection**
Wuyang Li, Zhen Chen, Baopu Li, Dingwen Zhang, Yixuan Yuan
IEEE Transactions on Image Processing (TIP), 2021, IF: 10.856
- **Joint Polyp Detection and Segmentation with Heterogeneous Endoscopic Data**
Wuyang Li, Chen Yang, Jie Liu, Xinyu Liu, Xiaoqing Guo, Yixuan Yuan
IEEE International Symposium on Biomedical Imaging Endoscopy Workshop (ISBI), 2021
- **Two Under-review Papers (First Author)**
Wuyang Li
ECCV 2022 (new project) and TMM (conference extended work)

RESEARCH EXPERIENCE

- **AIM Group, City University of Hong Kong** Aug 2020 - Present
Develop high-performance and domain/noise-robust object detectors.
Supervisor: Prof. Yixuan Yuan
- **NUS (Suzhou) Research Institute (NUSRI)** Sep 2019 - Jun 2020
Develop a web-page-based Augmentation Reality (AR) framework.
Supervisor: Prof. Zhiying, Zhou

SELECTED AWARDS

- **First in Polyp Detection Challenge** May 2021
3rd International Endoscopy Computer Vision Challenge and Workshop (EndoCV2021)
- **National Scholarship** Aug 2018
The Highest Honor for a Student in China (Top 2%)
- **National Scholarship** Aug 2017
The Highest Honor for a Student in China (Top 2%)
- **Silver Award in Tianjin Advanced Mathematical Competition** Jun 2017
As a Selected Participant Representing Tianjin University (Top 5%)

- **First-class Student Awards, TJU** 2017-2019
Outstanding Students Selected in Tianjin University (Top 10%)

SERVICE

- **Teaching Assistant (TA), City University of Hong Kong** Aug 2020 - Present
EE4146: Data Engineering and Learning System; EE3210: Signals and Systems
- **Freshman Leader, Tianjin University** Jun 2017 - Jun 2018
Assist Freshmen to Adapt to College Life (8 students selected in a department)

SKILLS

Programming Languages: Python, Matlab, LaTeX

Mastered Framework: maskrcnn-benchmark, detectron2, mmdetection