

Wuyang Li

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RESEARCH INTERESTS

Object Detection, Graph-based Learning, Multimodal Learning

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).

CONFERENCE PAPERS

- **Adjustment and Alignment for Unbiased Open Set Domain Adaptation**
Wuyang Li, Jie Liu, Bo Han, Yixuan Yuan
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023,
- **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, **Best Paper Final List [33/8161]**
- **Towards Robust Adaptive Object Detection under Noisy Annotations**
Xinyu Liu, Wuyang Li, Qiushi Yang, Baopu Li, Yixuan Yuan
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**
- **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**
- **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
- **Under-reviewed Paper-1 about Object Detection (Strong Accept, Weak Accept, Weak Accept)**
Wuyang Li, Xiaoqing Guo, Yixuan Yuan
International Conference on Computer Vision (ICCV), 2023
- **Under-reviewed Paper-2 about Masked Image Modeling (Strong Accept, Weak Accept, Borderline)**
Qiushi Yang, Wuyang Li, Baopu, Li Yixuan Yuan
International Conference on Computer Vision (ICCV), 2023
- **Under-reviewed Paper-3 about Diffusion Model and Multimodal Learning**
Wuyang Li, Xinyu, Liu Yixuan Yuan
Thirty-sixth Conference on Neural Information Processing Systems (NeurIPS), 2023

JOURNAL PAPERS

- **SIGMA++: Improved Semantic-complete Graph Matching for Domain Adaptive Object Detection**
Wuyang Li, Xinyu Liu, Yixuan Yuan
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2023,
- **Decoupled Unbiased Teacher for Source-free Domain Adaptive Medical Object Detection**
Xinyu Liu, Wuyang Li, Yixuan Yuan
IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 2023.
- **GRAB-Net: Graph-based Boundary-aware Network for Medical Point Cloud Segmentation**
Yifan Liu, Wuyang Li, Jie Liu, Hui Chen, Yixuan Yuan
IEEE Transactions on Medical Imaging (TMI), 2023,

- **SCAN++: Enhanced Semantic Conditioned Adaptation for Domain Adaptive Object Detection**
Wuyang Li, Xinyu Liu, Yixuan Yuan
 IEEE Transactions on Multimedia (TMM), 2022,
- **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

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

- **Outstanding Academic Performance Award (OAPA), CityU** 2022
Outstanding research achievements in EE department.
- **Research Tuition Scholarship (RTS), CityU** 2022
Outstanding research achievements in EE department.
- **Rank 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; EE4216: Web Developing
- **PC Member** 2021 - Present
CVPR-22, AAAI-22, CVPR-23, ICCV-23

LEADERSHIP

- **Leader of an Entrepreneurial Team.** 2023 - Present
I have established a team and work on an LLM-related entrepreneurial project.
- **Student Union Chairman, Tianjin University.** Sep. 2018 - Jun. 2020
I was fortunate to be selected as the publicity department chairman of the student union.
- **Freshman Leader, Tianjin University.** Jun 2017 - Jun 2018
I was fortunate to be among eight freshman leaders selected by the department.