

YANG CAO

(+86)176 0221 6660 | yangcao.cs@gmail.com | 16/01/1996 | [Homepage](#)

EDUCATION

The Hong Kong University of Science and Technology *2022.02 - present, PhD student*
Computer Science; Supervisor: Prof. Dan Xu.
Nankai University *2017.09 - 2020.07, Master*
Computer Science; Supervisor: Prof. Ming-Ming Cheng.
Xidian University *2013.09 - 2017.7, Bachelor*
Telecommunication Engineering
Graduated as the outstanding graduate

PUBLICATIONS

(Google Scholar: <https://scholar.google.com/citations?user=VuKS1VQAAAAJ&hl=en>)

- CoDA: Collaborative Novel Box Discovery and Cross-modal Alignment for Open-vocabulary 3D Object Detection, **Yang Cao**, Yihan Zeng, Hang Xu, Dan Xu. *Advances in Neural Information Processing Systems(NeurIPS) 2023*.
- FakeMix Augmentation Improves Transparent Object Detection, **Yang Cao**, Zhengqiang Zhang, Enze Xie, Qibin Hou, Kai Zhao, Xiangui Luo, Jian Tuo. **Preprint**
- Contrast Prior and Fluid Pyramid Integration for RGBD Salient Object Detection, Jia-Xing Zhao, **Yang Cao**, Deng-Ping Fan, Ming-Ming Cheng, Xuan-Yi Li, Le Zhang. *IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2019*. (**Joint first author**)
- Traffic Scene Parsing through the TSP6K Dataset, Peng-Tao Jiang, Yuqi Yang, **Yang Cao**, Qibin Hou, Ming-Ming Cheng, Chunhua Shen. *IEEE International Conference on Computer Vision (CVPR), 2024*.
- Integral Object Mining via Online Attention Accumulation, Peng-Tao Jiang, Qi-Bin Hou, **Yang Cao**, Ming-Ming Cheng, Yun-Chao Wei, Hong-Kai Xiong. *IEEE International Conference on Computer Vision (ICCV), 2019*.
- EGNet: Edge Guidance Network for Salient Object Detection, Jia-Xing Zhao, Jiang-Jiang Liu, Deng-Ping Fan, **Yang Cao**, Ju-Feng Yang, Ming-Ming Cheng. *IEEE International Conference on Computer Vision (ICCV), 2019*.
- E-measure: Enhanced-alignment Measure for Binary Foreground Map Evaluation, Deng-Ping Fan, Cheng Gong, **Yang Cao**, Bo Ren, Ming-Ming Cheng, Ali Borji, **IJCAI**, 2018.

RESEARCH/WORK EXPERIENCE

Huya Information Technology Co.,Ltd *2020.07 - 2022.2, Multimedia Technology Engineer-AI*

- Research: Complete a paper for Transparent Object Detection task.
- Project: Image Super-Resolution. Develop SR models for popular game lives ([4K live room](#)).
- Project: Model Compression. Compress the SR models to save half of cost.
- Project: The first SDR2HDR model for LOL game live.

Megvii Institute (also known as Face++) *2019.04 - 2019.07, Research intern*

Keypoint-based object detection.

HONOURS AND AWARDS

Huawei PhD Fellowship, Huawei Noah's Ark Lab

National scholarship, National encouragement scholarship, Ministry of Education of the People's Republic of China(**top 1%**)

The best freshman award, The S-level award, Huya Information Technology(**top 5%**)

Freshman Scholarship, Gongneng first-class scholarship, Nankai University

The first prize in the 14th Xidian Huawei Cup ACM/ICPC competition, Huawei Technology

The first prize of the 6th national college students mathematics preliminary competition, Chinese Mathematical Society(top 5%)

Excellent student, Excellent graduate, Xidian University(top 5%)

ACADEMIC SERVICE

Reviewer for TPAMI, TIP, CVPR(2020-2024), ICCV 2023, ECCV 2024, ICRA(2023-2024), NeurIPS 2023, ICLR 2024, ICML 2024, MM 2024

TEACHING

Advanced Artificial Intelligence, Teaching Assistant - Fall 2023

Computer Vision, Teaching Assistant - Spring 2023