

YANG CAO

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EDUCATION

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

PUBLICATIONS

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

1. 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**.
2. FakeMix Augmentation Improves Transparent Object Detection, **Yang Cao**, Zhengqiang Zhang, Enze Xie, Qibin Hou, Kai Zhao, Xiangui Luo, Jian Tuo. **Preprint**
3. 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**)
4. 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**.
5. 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**.
6. 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*

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

Megvii Institute (also known as Face++)	<i>2019.04 - 2019.07, Research intern</i>
Keypoint-based object detection.	

HONOURS AND AWARDS

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 Technoloy(**top 5%**)

Freshman Scholarship, Gongneng first-class scholarship, Nankai University

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

Conference Reviewer for CVPR(2020, 2021, 2022, 2023), ACCV 2022, ICCV 2023, ICRA 2023, NeurIPS 2023, ICLR 2024