

Shusheng Yang (杨澍生)

Email: [shushengyang \[at\] hust.edu.cn](mailto:shushengyang@hust.edu.cn) / [shushengyang \[at\] qq.com](mailto:shushengyang@qq.com)

[Homepage](#) / [Google Scholar](#) / [GitHub](#) / [Twitter](#) / [LinkedIn](#)

EDUCATION

- **Huazhong University of Science and Technology**, Wuhan, China. Sep. 2021 - Jun. 2024 (expected)
M.E. in School of EIC, supervised by Prof. [Xinggang Wang](#).
- **Huazhong University of Science and Technology**, Wuhan, China. Sep. 2017 - Jun. 2021
B.E. in School of EIC, supervised by Prof. [Xinggang Wang](#).

RESEARCH INTERESTS

- **Object Detection / Instance Segmentation**
- **Visual Architecture Design (CNN / Transformer)**
- **Self Supervised Pre-training**
- **Vision & Language Pre-training**

PUBLICATIONS

*: equal contribution.

[Full publication list](#)

1. **Shusheng Yang***, Yuxin Fang*, Xinggang Wang, Yu Li, Chen Fang, Ying Shan, Bin Feng, Wenyu Liu: Crossover Learning for Fast Online Video Instance Segmentation. ICCV, 2021.
2. Yuxin Fang*, **Shusheng Yang***, Xinggang Wang, Yu Li, Chen Fang, Ying Shan, Bin Feng, Wenyu Liu: Instances as Queries. ICCV, 2021.
3. **Shusheng Yang***, Yuxin Fang*, Xinggang Wang, Yu Li, Ying Shan, Bin Feng, Wenyu Liu: Tracking Instances as Queries. CVPRW, 2021.
4. Tao Huang, Zekang Li, Hua Lu, Yong Shan, **Shusheng Yang**, Yang Feng, Fei Wang, Shan You, Chang Xu: Relational Surrogate Loss Learning. ICLR, 2022.
5. **Shusheng Yang**, Xinggang Wang, Yu Li, Yuxin Fang, Jiemin Fang, Wenyu Liu, Xun Zhao, Ying Shan: Temporally Efficient Vision Transformer for Video Instance Segmentation. CVPR, 2022, Oral Presentation.
6. Yuxin Fang*, **Shusheng Yang***, Shijie Wang*, Yixiao Ge, Ying Shan, Xinggang Wang: Unleashing Vanilla Vision Transformer with Masked Image Modeling for Object Detection. arXiv, 2022.
7. Kun Yi, Yixiao Ge, Xiaotong Li, **Shusheng Yang**, Dian Li, Jianping Wu, Ying Shan, Xiaohu Qie: Masked Image Modeling with Denoising Contrast. arXiv, 2022.
8. **Shusheng Yang**, Yixiao Ge, Kun Yi, Dian Li, Ying Shan, Xiaohu Qie, Xinggang Wang: Masked Visual Reconstruction in Language Semantic Space. In preparation, 2022.

EXPERIENCE

- **Applied Research Center, Tencent PCG**, Shenzhen, China. Jul. 2020 - Nov. 2021
Research intern, mentored by Dr. [Yu Li](#).
Working on detection and segmentation in both image and video regime.
- **Applied Research Center, Tencent PCG**, Beijing, China. Dec. 2021 - Nov. 2022
Research intern, mentored by Dr. [Yixiao Ge](#).
Working on vision and language pre-training.
- **BAAI**, Beijing China. Dec. 2022 - Present
Research intern, working with Dr. [Yue Cao](#) and Dr. [Xinlong Wang](#).
Focusing on visual representation learning.

CONTEST

- 2nd Place award, VIS Track, 3rd Large-Scale VOS Challenge, CVPR 2021. Jun. 2021

ACADEMIC SERVICE

- **Reviewer for conferences**: CVPR 2022, ICML 2022, NIPS 2022, AAAI 2023, ICLR 2023, CVPR 2023.

AWARDS

- Merit Graduate Student award, Huazhong University of Science and Technology. Oct. 2022
- Best Contributor award, OpenMMLab Community. Oct. 2021
- Excellent Student award, Tencent Rhino-Bird Elite Training Program. Jul. 2021
- Outstanding Graduate award, Huazhong University of Science and Technology. Jun. 2021
- Outstanding Graduate Thesis award, Huazhong University of Science and Technology. Jun. 2021