


# Yangyang Xu

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## CONTACT INFORMATION

PostDoc of Department of Computer Science, The University of Hong Kong.  
Ph.D. of School of Computer Science and Engineering, South China University of Technology.

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## RESEARCH INTEREST

Computer Vision, Generative Models, Image Editing and Transfer Learning

## EXPERIENCE & EDUCATION

<i>PostDoc</i>	2021.12 - Present
The University of Hong Kong, Department of Computer Science	
Supervisor: Prof. <a href="#">Ping Luo</a>	
<i>Intern</i>	2021.09 - 2021.11
Tencent, Interactive Entertainment Group, Turing Lab	
Mentor: Dr. <a href="#">Junle Wang</a>	
<i>Ph.D.</i>	2018.07 - 2021.08
South China University of Technology, China	
Supervisor: Prof. <a href="#">Shengfeng He</a> and Prof. <a href="#">Xuemiao Xu</a>	

## PUBLICATION

Summary: CVPR & ICCV (2), IEEE & ACM Transactions (7)

<sup>+</sup> Equal Contribution

- High-resolution Face Swapping via Latent Semantics Disentanglement**  
*Yangyang Xu, Bailin Deng, Junle Wang, Yanqing Jing, Jia Pan and Shengfeng He*  
IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2022.
- From Continuity to Editability: Inverting GANs with Consecutive Images**  
*Yangyang Xu, Yong Du, Wenpeng Xiao, Xuemiao Xu and Shengfeng He*  
IEEE/CVF International Conference on Computer Vision (ICCV), 2021.
- Multi-view Face Synthesis via Progressive Face Flow**  
*Yangyang Xu, Xuemiao Xu, Jianbo Jiao, Keke Li, Cheng Xu and Shengfeng He*  
IEEE Transactions on Image Processing (TIP), 2021.  
DOI: 10.1109/TIP.2021.3090658
- Pro-PULSE: Learning Progressive Encoders of Latent Semantics in GANs for Photo Upsampling**  
*Yang Zhou<sup>+</sup>, Yangyang Xu<sup>+</sup>, Yong Du, Qiang Wen and Shengfeng He*  
IEEE Transactions on Image Processing (TIP), 2022.  
DOI: 10.1109/TIP.2022.3140603
- Transductive Zero-shot Action Recognition via Visually-connected Graph Convolutional Networks**

*Yangyang Xu, Chu Han, Jing Qin, Xuemiao Xu, Guoqiang Han, and Shengfeng He*  
IEEE Transactions on Neural Networks and Learning Systems (TNNLS), 2020.  
DOI: 10.1109/TNNLS.2020.3015848

6. **Holistically-Associated Transductive Zero-Shot Learning**

*Yangyang Xu, Xuemiao Xu, Guoqiang Han, and Shengfeng He*  
IEEE Transactions on Cognitive and Developmental Systems (TCDS), 2021.  
DOI: 10.1109/TCDS.2021.3049274

7. **Invertible Grayscale with Sparsity Enforcing Priors**

*Yong Du, Yangyang Xu, Taizhong Ye, Qiang Wen, Chufeng Xiao, Junyu Dong, Guoqiang Han, Shengfeng He*  
ACM Transactions on Multimedia Computing Communications and Applications (TOMM), 2021.  
DOI: 10.1145/3451993

8. **Background Matting via Recursive Excitation**

*Junjie Deng<sup>+</sup>, Yangyang Xu<sup>+</sup>, Zeyang Zhou and Shengfeng He*  
IEEE International Conference on Multimedia and Expo (ICME), 2022.

9. **Unsupervised Domain Adaptation via Importance Sampling**

*Xuemiao Xu, Hai He, Huaidong Zhang, Yangyang Xu, and Shengfeng He*  
IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), 2019.  
DOI: 10.1109/TCSVT.2019.2963318

10. **Deep Texture-Aware Features for Camouflaged Object Detection**

*Jingjing Ren, Xiaowei Hu, Lei Zhu, Xuemiao Xu, Yangyang Xu, Weiming Wang, Zijun Deng and Pheng-Ann Heng*  
IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), 2021.  
DOI: 10.1109/TCSVT.2021.3126591

11. **Ensemble One-Dimensional Convolution Neural Networks for Skeleton-Based Action Recognition**

*Yangyang Xu, Jun Cheng, Lei Wang, Feng Liu and Dapeng Tao*  
IEEE Signal Processing Letters (SPL), 2018.  
DOI: 10.1109/LSP.2018.2841649

12. **Human Action Recognition by Learning Spatio-Temporal Features With Deep Neural Networks**

*Lei Wang, Yangyang Xu, Jun Cheng, Jianqin Yin and Jiaji Wu*  
IEEE Access, 2018.  
DOI: 10.1109/ACCESS.2018.2817253

13. **DTA: Double LSTM with temporal-wise attention network for action recognition**

*Yangyang Xu, Lei Wang, Jun Cheng and Jiaji Wu*  
IEEE International Conference on Computer and Communications. 2017.  
DOI: 10.1109/CompComm.2017.8322825

PRE-PRINT

1. **Self-supervised Matting-specific Portrait Enhancement and Generation**

*Yangyang Xu, Zeyang Zhou, Shengfeng He*  
Submitted to IEEE Transactions on Image Processing (TIP), Major revision

2. **Parsing-Conditioned Anime Translation: A New Dataset and Method**

*Zhansheng Li<sup>+</sup>, Yangyang Xu<sup>+</sup>, Nanxuan Zhao, Yang Zhou, Yongtuo Liu, Dahua*

Lin and Shengfeng He

Submitted to ACM Transactions on Graphics (TOG), Major revision

3. **RIGID: Recurrent GAN Inversion and Editing of Real Face Videos**

Yangyang Xu, Shengfeng He, Kwan-Yee K. Wong, Ping Luo

Submitted to Thirty-sixth Conference on Neural Information Processing Systems (NeurIPS), 2022

4. **Open-set Mixed Domain Adaptation via Visual-Linguistic Focal Evolving**

Bangzhen Liu, Yangyang Xu, Xuemiao Xu, Shengfeng He

Submitted to Thirty-sixth Conference on Neural Information Processing Systems (NeurIPS), 2022

5. **HoliStyle: Discovering Holistic Interpretable Direction for Multi-Attribute Face Editing**

Ruihua Zeng<sup>+</sup>, Yangyang Xu<sup>+</sup>, Xuemiao Xu, Ping Luo and Shengfeng He

Submitted to ACM MultiMedia (MM), 2022

6. **Class-aware Global Feature Alignment for Adaptive Object Detection**

Shan Xu, Huaidong Zhang, Xuemiao Xu, Xiaowei Hu, Yangyang Xu, Liangui Dai, Pheng-Ann Heng, Kup-Sze Choi

Submitted to IEEE Transactions on MultiMedia (TMM)

ACTIVITIES

1. **Reviewer:**

SIGGRAPH 2022, SIGGRAPH Asia 2022, NeurIPS 2022, ICML 2022, CVPR 2022, ICCV 2021, CVPR 2021, AAAI 2021, ECCV 2020, CVPR 2020, P&G 2020.

IEEE TIP, IEEE TNNLS, Pattern Recognition, Neural Computing, IEEE SPL.

2. **Seminar report:**

- “Graph Convolutional Neural Networks for Zero-shot Action Recognition”, City University of Hong Kong, Hong Kong. 2018.12
- “Research on Several Problems Based on Generative Adversarial Models”, Tencent, Shenzhen. 2021.11
- “Image and Video Editing Based on Generative Adversarial Networks”, Shanghai AI Lab, Shanghai. 2022.06

3. **Volunteer:**

Chinagraph 2018

PROGRAM  
SKILLS

Proficiency with Python, Matlab, C/C++.