

Yangyang Xu

CONTACT INFORMATION

Post Doc. of The University of Hong Kong
Ph.D. of South China University of Technology

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RESEARCH INTEREST

Computer Vision, Generative Models, Image Editing and Transfer Learning

EDUCATION

Ph.D. 2018.07 - 2021.08
South China University of Technology, China
Supervisor: Prof. [Shengfeng He](#) and Prof. [Xuemiao Xu](#)

RA 2017.02 - 2018.06
Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China
Supervisor: Prof. [Jun Cheng](#) and Prof. [Lei Wang](#)

M.S. 2015.09 - 2018.06
Guangxi Normal University, China

B.S. 2011.09 - 2015.06
Yantai University, China

EXPERIENCE

Intern 2021.09 - 2021.11
Tencent, Interactive Entertainment Group, Turing Lab
Supervisor: Dr. [Junle Wang](#)

PostDoc 2021.12 - Present
The University of Hong Kong, Department of Computer Science
Supervisor: Prof. [Ping Luo](#)

PUBLICATION

* Corresponding author
+ Equal Contribution

1. 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.
2. 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
3. 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
4. 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
 5. 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
 6. 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
 7. 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
 8. 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
 9. 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
 10. 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. High-resolution Face Swapping via Latent Semantics Disentanglement
Yangyang Xu, Bailin Deng, Junle Wang, Yanqing Jing, Jia Pan and Shengfeng He*
 Submitted to IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2022
2. Self-supervised Matting-specific Portrait Enhancement and Generation
Yangyang Xu, Zeyang Zhou, Shengfeng He*
 Submitted to IEEE Transactions on Image Processing (**TIP**)

3. Pro-PULSE: Learning Progressive Encoders of Latent Semantics in GANs for Photo Upsampling
 Yang Zhou⁺, **Yangyang Xu**⁺, Yong Du, Qiang Wen and Shengfeng He*
*Submitted to IEEE Transactions on Image Processing (**TIP**) Major revision*
4. Parsing-Conditioned Anime Translation: A New Dataset and Method
 Zhansheng Li⁺, **Yangyang Xu**⁺, Nanxuan Zhao, Yang Zhou, Yongtuo Liu, Dahua Lin and Shengfeng He*
*Submitted to ACM Transactions on Graphics (**TOG**)*
5. 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**)*
6. Background Matting via Recursive Excitation
 Junjie Deng⁺, **Yangyang Xu**⁺, Zeyang Zhou and Shengfeng He*
*Submitted to IEEE Signal Processing Letters (**SPL**)*

ACTIVITIES

1. **Reviewer:**
 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
3. **Volunteer: Chinagraph 2018**

PROGRAM SKILLS

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