

# Yangyang Xu

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## CONTACT INFORMATION

Third-year Ph.D. student (Excepted Graduation in September 2021)  
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## RESEARCH INTEREST

Computer Vision, Image Processing, Machine Learning, Deep Learning

## EDUCATION

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

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

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

*B.S.* 2011.09 - 2015.06  
Yantai University, China

## PUBLICATION

- \* Corresponding author
1. 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
  2. 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
  3. 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) (Early Access)
  4. 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

5. 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

## Pre-print

1. Multi-view Face Synthesis via Progressive Face Flow  
**Yangyang Xu**, Xuemiao Xu\*, Jianbo Jiao, Keke Li, Cheng Xu and Shengfeng He\*  
*Submitted to IEEE Transactions on Image Processing (**TIP**), Major revision*
2. Pro-PULSE: Learning Progressive Encoders of Latent Semantics in GANs for Photo Upsampling  
Shengfeng He, Yang Zhou, Yong Du, Qiang Wen, Xuemiao Xu and **Yangyang Xu\***  
*Submitted to IEEE Transactions on Image Processing (**TIP**)*
3. 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  
*Submitted to IEEE Transactions on MultiMedia (**TMM**)*
4. 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 The International Joint Conference on Artificial Intelligence (**IJCAI 2021**)*
5. From Continuity to Editability: Inverting GANs with Consecutive Images  
**Yangyang Xu**, Yong Du, Xuemiao Xu\*, Guoqiang Han, and Shengfeng He\*  
*Submitted to IEEE International Conference on Computer Vision (**ICCV 2021**)*
6. Self-supervised Matting-specific Portrait Enhancement and Generation  
Shengfeng He, Zeyang Zhou, **Yangyang Xu\***, Xuemiao Xu and Guoqiang Han  
*Submitted to IEEE International Conference on Computer Vision (**ICCV 2021**)*

## ACTIVITIES

1. **Reviewer:** IEEE TNNLS, Neural Computing, P&G 2020, CVPR 2020, ECCV 2020, AAAI 2021, CVPR 2021, ICCV 2021.
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++.