

WENXUAN WANG

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SUMMARY

I am currently a second-year Ph.D. student at Fudan University, under the supervision of Prof. Xiangyang Xue. At present, I devote to the research of adversarial attacks, generative adversarial networks, person re-identification, face recognition, expression classification with deep learning.

EDUCATION

PHD of Science <i>Computer Application</i> Fudan University	Sep. 2019 – Now Shanghai
Master of Science <i>Computer Application</i> Fudan University	Sep. 2017 – Jun. 2019 Shanghai
Bachelor of Engineering <i>Computer Science and Technology</i> Northwestern Polytechnical University	Sep. 2013 – Jun. 2017 Shaanxi

PUBLICATIONS

Conference

- Delving into Data: Effectively Substitute Training for Black-box Attack. IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021.
Wenxuan Wang, Bangjie Yin, Taiping Yao, Li Zhang, Yanwei Fu, Shouhong Ding, Jilin Li, Feiyue Huang, Xiangyang Xue.
- Adv-Makeup: A New Imperceptible and Transferable Attack on Face Recognition. International Joint Conference on Artificial Intelligence (**IJCAI**), 2021.
Bangjie Yin*, **Wenxuan Wang***, Taiping Yao*, Junfeng Guo, Zelun Kong, Shouhong Ding, Jilin Li, Cong Liu.
- FMMu-Net: Face Morphological Multi-branch Network for Makeup-invariant Face Verification. IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2020.
Wenxuan Wang, Yanwei Fu, Xuelin Qian, Qi Tian, Yu-Gang Jiang, Xiangyang Xue.
- Long-Term Cloth-Changing Person Re-identification. Asian Conference on Computer Vision (**ACCV**), 2020. (Oral)
Xuelin Qian, **Wenxuan Wang**, Li Zhang, Fangrui Zhu, Yanwei Fu, Tao Xiang, Yu-Gang Jiang, Xiangyang Xue.
- Comp-GAN: Compositional Generative Adversarial Network in Synthesizing and Recognizing Facial Expression. ACM International Conference on Multimedia. (**ACM MM**), 2019.
Wenxuan Wang, Qiang Sun, Yanwei Fu, Tao Chen, Chenjie Cao, Ziqi Zheng, Guoqiang Xu, Han Qiu, Yu-Gang Jiang, Xiangyang Xue.
- Pose-Normalized Image Generation for Person Re-identification. European Conference on Computer Vision. (**ECCV**), 2018.
Xuelin Qian, Yanwei Fu, Tao Xiang, **Wenxuan Wang**, Jie Qiu, Yang Wu, Yu-Gang Jiang, Xiangyang Xue.

Preprint

- A New Screening Method for COVID-19 based on Ocular Feature Recognition by Machine Learning Tools.
Yanwei Fu, Feng Li, **Wenxuan Wang**, Haicheng Tang, Xuelin Qian, Mengwei Gu, Xiangyang Xue.
medRxiv, 2020.
- Learning to Augment Expressions for Few-shot Fine-grained Facial Expression Recognition.
Wenxuan Wang, Yanwei Fu, Qiang Sun, Tao Chen, Chenjie Cao, Ziqi Zheng, Guoqiang Xu, Han Qiu, Yu-Gang Jiang, Xiangyang Xue. arXiv, 2019.
- A Fine-Grained Facial Expression Database for End-to-End Multi-Pose Facial Expression Recognition.
Wenxuan Wang, Qiang Sun, Tao Chen, Chenjie Cao, Ziqi Zheng, Guoqiang Xu, Han Qiu, Yanwei Fu.
arXiv, 2018.

WORK EXPERIENCE

Ping An	Sep. 2018 – Jun. 2019
Algorithm Intern	
<ul style="list-style-type: none">• Facial expression recognition under few-shot setting project.• Build a novel fine-grained facial expression dataset.• Proposed an algorithm of recognizing subtle facial expression in the insufficient training data condition.• Published a conference paper (ACM MM 2019).	
Tencent	Jun. 2020 – Jan. 2021
Algorithm Intern	
<ul style="list-style-type: none">• The adversarial examples and the robustness of the deep neural networks.• Proposed a novel algorithm to realize black-box attack under data-free condition.• Introduced an algorithm to generate imperceptible and transferable attacks on face recognition system.• Published two conference papers (CVPR 2021 and IJCAI 2021).	

HONORS AND AWARDS

National Scholarship	2016-2017
Recognition for to 1% of students in GPA at Northwestern Polytechnical University	
First-class Scholarship for Excellent Master Students	2017-2018
Recognition for to 10% of master students in academics at Fudan University	
‘Wei Rui’ Scholarship	2018-2019
Recognition for to 5% of Ph.D students in academics at Fudan University	
First-class Scholarship for Excellent Ph.D Students	2019-2020
Recognition for to 10% of Ph.D students in academics at Fudan University	

EXTRA

Academic Activities	
Conference Reviewer: CVPR, ICCV, AAAI	
Teaching Assistant	Sep. 2018 – Feb. 2019
Information System Security	Fudan University
Part-Time Teacher	Dec. 2018 – Jul. 2017
Teaching junior high school students Chinese, English and Physics	ZhangMen, Online

SKILLS

Languages: Chinese, English
Programming: Python, C, C++
Platform: Pytorch, Matlab, Tensorflow, Caffe
Document Creation: Microsoft Office Suite, LaTeX