Wenxuan WANG

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SUMMARY

I am currently a second-year Ph.D. student at Fudan University, under the supervision of Prof. Yanwei Fu and 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

NORTHWESTERN POLYTECHNICAL UNIVERSITY   *2013-2017*
B.S. IN COMPUTER SCIENCE AND TECHNOLOGY

FUDAN UNIVERSITY   *2017-2019*
M.S. IN COMPUTER APPLICATION

FUDAN UNIVERSITY   *2019-Present*
PH.D. IN COMPUTER APPLICATION

PUBLICATIONS

CONFERENCE
• Delving into Data: Effectively Substitute Training for Black-box Attack. **Wenxuan Wang**, Bangjie Yin, Taiping Yao, Li Zhang, Yanwei Fu, Shouhong Ding, Jilin Li, Feiyue Huang, Xiangyang Xue. IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021.

• Adv-Makeup: A New Imperceptible and Transferable Attack on Face Recognition. Bangjie Yin*, **Wenxuan Wang***, Taiping Yao*, Junfeng Guo, Zelun Kong, Shouhong Ding, Jilin Li, Cong Liu. International Joint Conference on Artificial Intelligence (**IJCAI**), 2021.

• FMMu-Net: Face Morphological Multi-branch Network for Makeup-invariant Face Verification. **Wenxuan Wang**, Yanwei Fu, Xuelin Qian, Qi Tian, Yu-Gang Jiang, Xiangyang Xue. IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2020.

• Long-Term Cloth-Changing Person Re-identification. Xuelin Qian, **Wenxuan Wang**, Li Zhang, Fangrui Zhu, Yanwei Fu, Tao Xiang, Yu-Gang Jiang, Xiangyang Xue. Asian Conference on Computer Vision (**ACCV**), 2020. (Oral)

• Comp-GAN: Compositional Generative Adversarial Network in Synthesizing and Recognizing Facial Expression. **Wenxuan Wang**, Qiang Sun, Yanwei Fu, Tao Chen, Chenjie Cao, Ziqi Zheng, Guoqiang Xu, Han Qiu, Yu-Gang Jiang, Xiangyang Xue. The 27th ACM International Conference on Multimedia. (**ACM MM**), 2019.

• Pose-Normalized Image Generation for Person Re-identification. Xuelin Qian, Yanwei Fu, Tao Xiang, **Wenxuan Wang**, Jie Qiu, Yang Wu, Yu-Gang Jiang, Xiangyang Xue. European Conference on Computer Vision. (**ECCV**), 2018.

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

EXPERIENCE

PING AN   *2018.09-2019.06*
INTERN FOR FACE FEATURE LEARNING
• Facial expression recognition under few-shot setting: This project aimed at recognizing subtle facial expression in the insufficient training data condition. I was primarily responsible for algorithm study.

TENCENT   *2020.06-2021.01*
INTERN FOR THE SECURITY OF DEEP LEARNING
• Adversarial attack: The project targeted to study the robustness of the deep neural networks and further generate transferable adversarial examples on both face recognition and general classification tasks.

SKILLS

PROGRAMMING LANGUAGES	*Experienced:* Python *Familiar:* C | C++	
PLATFORM	*Experienced:* Pytorch | Matlab *Familiar:* Tensorflow | Caffe	
LANGUAGES	*Native:* Chinese *Fluent:* English	

EXTRA

TEACHING ASSISTANT
2018.09-2019.02
- Fudan University, Information System Security.

PART-TIME TEACHER
2018.12-2019.07
- Zhangmen, teaching junior high school students Chinese.

SCHOLARSHIP
- National Scholarship, top 1%, 2016-2017

- First-class Scholarship for Excellent Master Students, Fudan University, top 10%, 2017-2018

- 'Wei Rui' Scholarship, Fudan University, top 5%, 2018-2019

- First-class Scholarship for Excellent Ph.D Students, Fudan University, top 10%, 2019-2020

ACADEMIC ACTIVITIES
- Conference Reviewer: CVPR, ICCV, AAAI.