WENXUAN WANG

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SUMMARY

I am currently a senior researcher in Intel Asia-Pacific Research Development Ltd. Before that, I have completed my PHD study at school of computer science in Fudan University, under the supervision of Prof. Xiangyang Xue. At present, I devote to the research of adversarial attacks, face recognition, generative adversarial networks, expression classification, person re-identification with deep learning. I have already published 9 academic papers, including 5 CCF-A papers (all as the first author), 1 CCF-B papers, 1 CCF-C papers and 1 chinese journal. I also have applied for 5 patents, 4 of them have been authorized.

EDUCATION

PHD of Science | *Computer Application*   Sep. 2017 – Now
Fudan University   Shanghai

Bachelor of Engineering | *Computer Science and Technology*   Sep. 2013 – Jul. 2017
Northwestern Polytechnical University   Shaanxi

PUBLICATIONS

Conference

- DST: Dynamic Substitute Training for Data-free Black-box Attack. IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2022.
  Wenxuan Wang, Xuelin Qian, Yanwei Fu, Xiangyang Xue.

- 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 (* indicates equal contributions).

- 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.

- A COVID-19 Screening Method Based on Eyes Photographs and Artificial Intelligence. European Journal of Public Health, 2021.
  Feng Li, Xiangyang Xue, Paula Boned Fustel, Shisong Rong, Qiang Sun, Haicheng Tang, **Wenxuan Wang**, Yanwei Fu, Ana Boned-Ombuena8, Mengwei Gu.

Journal

- IIRC-GAN: Towards Identity Inter-Relationship Consistent Face De-identification. Journal of East China Normal University (Natural Science), 2022.
  Yifan Bu, Xiaoling Wang, keke He, Jianxing Lu, **Wenxuan Wang**(**Corresponding Author**).

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
- Facial expression recognition under few-shot setting project.
- Built a novel fine-grained facial expression dataset.
- Proposed an algorithm for recognizing subtle facial expressions in the insufficient training data condition.

Tencent   Jun. 2020 – Jan. 2021
Algorithm Intern
- 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.

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

First-class Scholarship for Excellent Ph.D Students   2020-2021
Recognition for to 10% of Ph.D students in academics at Fudan University

Excellent Doctoral Dissertation of Fudan University   2022
Recognition for to 1% of Ph.D students in doctoral dissertation at Fudan University

Outstanding Graduate of Shanghai   2022
Recognition for to 1% of Ph.D students in GPA and academic achievements in Shanghai

EXTRA

Academic Activities   2020 – 2022
Reviewer: TPAMI, TNNLS, CVPR, ICCV, ECCV, AAAI, ACM MM

Teaching Assistant   Sep. 2018 – Feb. 2019
Information System Security   Fudan University

Part-Time Teacher   Dec. 2018 – Jul. 2019
Teaching junior high school students Chinese, English and Physics   ZhangMen, Online