

# WENXUAN WANG

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## SUMMARY

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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

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<b>PHD of Science</b>   <i>Computer Application</i> Fudan University	Sep. 2017 – Jul. 2022 Shanghai
<b>Bachelor of Engineering</b>   <i>Computer Science and Technology</i> Northwestern Polytechnical University	Sep. 2013 – Jul. 2017 Shaanxi

## PUBLICATIONS

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### 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-Ombuena<sup>8</sup>, 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).

## WORK EXPERIENCE

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<b>Intel Asia-Pacific Research and Development Ltd</b> Senior Researcher	Jul. 2022 – Now
<ul style="list-style-type: none"> <li>• Lead a team to generate transferable adversarial examples and improve the robust of deep model.</li> <li>• Realize 3D face reconstruction according to image/video input.</li> <li>• Enhance the face beautify quality under complex situation.</li> </ul>	
<b>Ping An</b> Algorithm Intern	Sep. 2018 – Jun. 2019
<ul style="list-style-type: none"> <li>• Facial expression recognition under few-shot setting project.</li> <li>• Built a novel fine-grained facial expression dataset.</li> <li>• Proposed an algorithm for recognizing subtle facial expressions in the insufficient training data condition.</li> </ul>	
<b>Tencent</b> Algorithm Intern	Jun. 2020 – Jan. 2021
<ul style="list-style-type: none"> <li>• The adversarial examples and the robustness of the deep neural networks.</li> <li>• Proposed a novel algorithm to realize black-box attack under data-free condition.</li> <li>• Introduced an algorithm to generate imperceptible and transferable attacks on face recognition system.</li> </ul>	

## HONORS AND AWARDS

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<b>Outstanding Graduate of Shanghai</b> Recognition for to 1% of Ph.D students in GPA and academic achievements in Shanghai	2022
<b>Excellent Doctoral Dissertation of Fudan University</b> Recognition for to 1% of Ph.D students in doctoral dissertation at Fudan University	2022
<b>First-class Scholarship for Excellent Ph.D Students</b> Recognition for to 10% of Ph.D students in academics at Fudan University	2020-2021
<b>First-class Scholarship for Excellent Ph.D Students</b> Recognition for to 10% of Ph.D students in academics at Fudan University	2019-2020
<b>'Wei Rui' Scholarship</b> Recognition for to 5% of Ph.D students in academics at Fudan University	2018-2019
<b>First-class Scholarship for Excellent Master Students</b> Recognition for to 10% of master students in academics at Fudan University	2017-2018
<b>National Scholarship</b> Recognition for to 1% of students in GPA at Northwestern Polytechnical University	2016-2017

## EXTRA

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<b>Academic Activities</b> Reviewer: TPAMI, TNNLS, CVPR, ICCV, ECCV, AAAI, ACM MM	2020 – 2022
<b>Teaching Assistant</b> Information System Security	Sep. 2018 – Feb. 2019 Fudan University
<b>Part-Time Teacher</b> Teaching junior high school students Chinese, English and Physics	Dec. 2018 – Jul. 2019 ZhangMen, Online