Xuelin **Qian**

Postdoctoral Research Fellow

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I am currently a postdoctor at School of Data Science, Fudan University with Prof. Yanwei Fu. I received my Ph.D. at Fudan University, under the supervision of Prof. Yanwei Fu and Prof. Xiangyang Xue. My research fields mainly focus on visual understanding and anaylsis of humans, indcluding person re-identification, image generation and model robustness. At present, I also devote to the research of 3D objection detection and 3D generation.

Education

2015 – 2021 **Ph.D., Fudan University**
I studied my PhD in the Department of Computer Science. I worked in the area of person re-identification, person attribute, face recognition and medical imaging analysis. My Ph.D. thesis "Research on Deep Learning based Person Re-identification" was awarded as the excellent thesis.

2011 – 2015 **B.Sc., Xidian University**
I majored in Mathematics and Applied Mathematics during my undergraduate study. In addition to studying basic courses, I also extended my knowledges by participating in the ACM contests, Mathematical Modeling Contests and National University Student Innovation Project.

Research Publications

Journal

1. **Qian, X.**, Fu, H., Shi, W., Chen, T., Fu, Y., Shan, F. and Xue, X. M^{3}Lung-Sys : A Deep Learning System for Multi-Class Lung Pneumonia Screening From CT Imaging. *IEEE journal of biomedical and health informatics (JBHI)*, 24(12), (2020), pp. 3539-3550.
2. **Qian, X.**, Fu, Y., Xiang, T., Jiang, Y.G. and Xue, X. Leader-based Multi-scale Attention Deep Architecture for Person Re-identification. *IEEE transactions on pattern analysis and machine intelligence (TPAMI)*, 42(2), (2019), pp. 371-385.

Conference

1. **Qian, X.**, Wang, L., Zhu, Y., Zhang, L., Fu, Y. and Xue, X. ImpDet : Exploring Implicit Fields for 3D Object Detection. *In Proceedings of the IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*, (2023).
2. Hong, Y., **Qian, X.***, Luo, S., Xue, X. and Fu, Y. QS-Craft : Learning to Quantize, Scrabble and Craft for Conditional Human Motion Animation. *In Proceedings of the Asian Conference on Computer Vision (ACCV)*, (2022).
3. Wang, Q., **Qian, X.***, Fu, Y., and Xue, X. Co-Attention Aligned Mutual Cross-Attention for Cloth-Changing Person Re-Identification. *In Proceedings of the Asian Conference on Computer Vision (ACCV)*, Oral (2022).
4. Wang, W., **Qian, X.***, Fu, Y., and Xue, X. DST : Dynamic Substitute Training for Data-free Black-box Attack. *In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, (2022).
5. **Qian, X.**, Wang, W., Zhang, L., Zhu, F., Fu, Y., Xiang, T., Jiang, Y.G. and Xue, X. Long-term Cloth-changing Person Re-identification. *In Proceedings of the Asian Conference on Computer Vision (ACCV)*, Oral (2020), pp. 71-88.
6. Wan, F., Wu, Y., **Qian, X.**, Chen, Y. and Fu, Y. When Person Re-identification Meets Changing Clothes. *In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)*, (2020), pp. 830-831.
7. Wang, W., Fu, Y., **Qian, X.**, Jiang, Y.G., Tian, Q. and Xue, X. FM^{2}u-net : Face Morphological Multi-branch Network for Makeup-invariant Face Verification. *In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, (2020), pp. 5730-5740.
8. **Qian, X.**, Fu, Y., Xiang, T., Wang, W., Qiu, J., Wu, Y., Jiang, Y.G. and Xue, X. Pose-normalized Image Generation for Person Re-identification. *In Proceedings of the European Conference on Computer Vision (ECCV)*, (2018), pp. 650-667.
9. **Qian, X.**, Fu, Y., Jiang, Y.G., Xiang, T. and Xue, X. Multi-scale Deep Learning Architectures for Person Re-identification. *In Proceedings of the IEEE International Conference on Computer Vision (ICCV)*, (2017), pp. 5399-5408.

Technical Report

1. Fu, Y., Li, F., Wang, W., Tang, H., **Qian, X.**, Gu, M. and Xue, X. A New Screening Method for COVID-19 based on Ocular Feature Recognition by Machine Learning Tools. *In arXiv preprint arXiv:2009.03184*, (2020).
2. Zhuo, H., **Qian, X.**, Fu, Y., Yang, H. and Xue, X. Scsp : Spectral Clustering Filter Pruning with Soft self-adaption Manners. *In arXiv preprint arXiv:1806.05320*, (2018).

(∗ : corresponding author; † : equal contribution)

Projets

Development of AI-based COVID-19 Screening and Assistant Analysis System 2020 - 2021

Emergency project of STCSM Project Number : 20441900600

Major Duty : data processing, algorithm research, writing report

Python | Pytorch | Flask

Theory of Novel Deep Learning and Research on Brain-inspired Intelligence Algorithm 2019 - 2020

Project Number : 16JC1420400

Major Duty : person re-identification, algorithm research, modeling

Python | Pytorch

Person Re-identification in Group 2019 - 2020

Cooperator Unit : Shanghai New Zailing Technology

Major Duty : data processing, algorithm research, modeling

Python | Pytorch | Flask

Fast Tiny Object Detection in Complex Background Image 2015 - 2016

Project Number : KX152600005 Cooperator Unit : The 54th Research Institute of China Electronics Technology Group Corporation

Major Duty : collecting data, studying algorithm, writing report

Python | C/C++ | Caffe

Age Estimation and Analysis 2015 - 2016

Cooperator Unit : Shanghai Institutes for Biological Sciences

Major Duty : data processing, algorithm research

Python | Caffe

Miscellaneous Experience

Intership and Visiting

Amazon GluonCV 2020.6 - 2021.1

Advised by Dr. Yi Zhu, Dr. Tong He and Dr. Mu Li. Focus on the research of 3D detection.

Tencent GYLab 2019.8 - 2020.1

Involved in projects of face reenactment and pose generation.

Nara Institute of Science and Technology 2017.6 - 2017.8

Advised by Prof. Yang Wu and focus on researches of person re-identification.

Awards and Honors

Intel Scholarship 2020

Huawei Scholarship 2019

Excellent Academic Scholarship 2016 - 2018

Academic Activities

Conference Reviewer CVPR, ECCV, ICCV, NeurIPS, AAAI, ACM MM, IJCAI, WACV, ACCV

Journal Reviewer TMM, JBHI, TPAMI, TIP

Teaching Assistant

Fudan University, COMP120004.07, Linear Algebra 2018.9 - 2019.2

Fudan University, DATA130014.01, Advanced Big Data Analytics 2016.9 - 2017.2

Langues

Chinese ●●●●●

English ●●●●○

Coding

- Python
- Matlab
- C/C++

Références

Available on Request