Qiong Cao **30/07/2019**

CONTACT INFORMATION

Senior Researcher in Computer Vision
Tencent Technology (Shenzhen) Company Limited
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RESEARCH INTERESTS

Deep learning and computer vision with applications to face recognition and clustering in videos, 3D face reconstruction and sequence modelling.

EDUCATION

Ph.D in Computer Science **12/2011 to 11/2015**
University of Exeter, Exeter, UK
Thesis: Some Topics on Similarity Metric Learning
Supervisors: Prof. Yiming Ying and Prof. Richard Everson

Master programme study in Mathematics **09/2010 to 11/2011**
Zhejiang University, Zhejiang, China
(I did not complete my master degree because I was given the opportunity to study PhD in Computer Science in University of Exeter.)

B.Sc in Mathmatics **09/2006 to 06/2010**
Hebei Normal University, Hebei, China

WORK AND ACADEMIC EXPERIENCE

Senior Researcher in Computer Vision **09/2017 to present**
Youtu lab,
Technology (Shenzhen) Company Limited.

Postdoc Researcher in Computer Vision **03/2015 to 09/2017**
Visual Geometry Group (VGG),
Department of Engineering Science,
University of Oxford.
Supervisor: Prof. Andrew Zisserman

AWARDS

- Nanshan Pilot Talent, Shenzhen, China, Oct 2018.
- Overseas High-Caliber Personnel (Level C), Shenzhen, China, Feb 2018.
- EPSRC Doctor Training Grant (DTG), UK, Dec 2011.
- Outstanding undergraduate of Hebei province, China, Jul 2010.

PUBLICATIONS

[1] C. M. Fu*, W. J. Pei*, Q. Cao, C. P. Zhang, X. Y. Shen, Y. Zhao and Y. W. Tai. Non-local Recurrent Neural Memory for supervised Sequence Modeling, *Proceedings of the IEEE International Conference on Computer Vision (**ICCV Oral, 4.3% acceptance rate**)*, 2019.

[2] H. W. Yi, C. Li, Q. Cao, X. Y. Shen, S. L Li, G. P. Wang and Y. W. Tai. MMFace: a multi-metric regression network for unconstrained face reconstruction, *IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**)*, 2019.

[3] O. M Parkhi, E. Rahtu, Q. Cao and A. Zisserman. Automated video face labelling for films and TV material, *IEEE Transaction on Pattern Analysis and Machine Intelligence (**TPAMI**)*, 2018.

[4] Q. Cao, L. Shen, W. D. Xie, O. M Parkhi and A. Zisserman. Vggface2: a dataset for recognising faces across pose and age, *IEEE Conference on Automatic Face and Gesture Recognition (**FG**)*, 2018.

[5] N. Crosswhite, J. Byrne, O. M Parkhi, C. Stauffer, Q. Cao and A. Zisserman. Template adaptation for face verification and identification, *IEEE Conference on Automatic Face and Gesture Recognition (**FG**)*, Oral presentation, 2017.

[6] Q. Cao. Some Topics on Similarity Metric Learning, PhD thesis, 2015.

[7] Q. Cao, Z. Guo and Y. Ying. Generalization bounds for metric and similarity learning, *Machine Learning Journal 102 (1), 115-132*, 2015.

[8] Q. Cao, Y. Ying and P. Li. Similarity metric learning for face recognition, *Proceedings of the IEEE International Conference on Computer Vision (**ICCV**)*, 2013.

[9] Q. Cao, Y. Ying and P. Li. Distance metric learning revisited, *Joint European Conference on Machine Learning and Knowledge Discovery in Databases (**ECML/PKDD**)*, 2012.

Computer Skills

- Programming languages: Python, MATLAB, C++, SQL, PHP.
- Libaries: VLFeat, OpenCV, Liblinear.
- Deep learning frameworks: Python Caffe, MatConvNet.
- Operating systems: Linux, Mac OS, Windows.

Professional Activities

- Reviewer for AISTATS, 2016.
- Reviewer for AAAI Conference on Artificial Intelligence, 2015 (AAAI-15).
- Mentor for Smallpeice Trust Residential course, 2014.
- Contributed speaker at International Conference on Approximation Theory and Applications, Hong Kong, 2013.