

# Qiong Cao

Research interests: computer vision and machine learning

Google scholar:

<https://scholar.google.co.uk/citations?user=JYtbNBsAAAAJ>

Mobile : +86-136-1281-8291

Email : [mathqiong2012@gmail.com](mailto:mathqiong2012@gmail.com)

Homepage: <https://qiongcdo.github.io/>

## WORK and ACADEMIC EXPERIENCE

---

- **JD.com** Shenzhen, China  
*Research Scientist at JD Explore Academy* 06/2021 – present  
*Supervisor: Prof. Dacheng Tao*
- **Tencent** Shenzhen, China  
*Senior Researcher at Tencent Youtu Lab* 09/2017 – 06/2021  
*Supervisor: Prof. Jiaya Jia*
- **University of Oxford** Oxford, UK  
*Postdoctoral Research Assistant, Visual Geometry Group (VGG)* 03/2015 – 09/ 2017  
*Supervisor: Prof. Andrew Zisserman*

## EDUCATION

---

- **University of Exeter** Exeter, UK  
*PhD in Computer Science* 12/2011 – 11/2015  
*Thesis: Some Topics on Similarity Metric Learning*  
*Supervisors: Prof. Yiming Ying and Prof. Richard Everson*
- **Zhejiang University** Zhejiang, China  
*Master in Mathematics* 09/2010 – 11/ 2011  
*(I didn't complete master degree because I was given the opportunity to study PhD in University of Exeter.)*
- **Hebei Normal University** Hebei, China  
*Bachelor in Mathematics* 09/2006 – 06/ 2010

## AWARDS

---

- **Nanshan Pilot Talent, Shenzhen, Guangdong Province** 10/2018
- **Overseas High-Caliber Personnel (Level C), Shenzhen, Guangdong Province** 02/2018
- **EPSRC Doctor Training Grant (DTG), UK** 12/2011

## PUBLICATIONS

---

- **Generating Holistic 3D Human Motion from Speech** CVPR, 2023  
*Hongwei Yi, Hualin Liang, Yifei Liu, Qiong Cao, Yandong Wen, Timo Bolkart, Dacheng Tao, Michael J Black*
- **TriDet: Temporal Action Detection with Relative Boundary Modeling** CVPR, 2023  
*Dingfeng Shi, Yujie Zhong, Qiong Cao, Lin Ma, Jia Li, Dacheng Tao*
- **Learning Sequence Representations by Non-local Recurrent Neural Memory** IJCV, 2022  
*Wenjie Pei, Xin Feng, Canmiao Fu, Qiong Cao, Guangming Lu and Yu-wing Tai*
- **View Vertically: A Hierarchical Network for Trajectory Prediction via Fourier Spectrums** ECCV, 2022  
*Conghao Wong, Beihao Xia, Ziming Hong, Qinmu Peng, Wei Yuan, Qiong Cao, Yibo Yang, Xinge You*

- **ReAct: Temporal Action Detection with Relational Queries** ECCV, 2022  
*Dingfeng Shi, Yujie Zhong, Qiong Cao, Jing Zhang, Lin Ma, Jia Li, Dacheng Tao*
- **DearKD: Data-Efficient Early Knowledge Distillation for Vision Transformers** CVPR, 2022  
*Xianing Chen, Qiong Cao, Yujie Zhong, Jing Zhang, Shenghua Gao, Dacheng Tao*
- **Push for Center Learning via Orthogonalization and Subspace Masking for Person ReId** TIP, 2020  
*Weinong Wang, Wenjie Pei, Qiong Cao, Shu Liu, Guangming Lu, Yu-Wing Tai*
- **Non-local Recurrent Neural Memory for Supervised Sequence Modeling** ICCV Oral, 2019  
*Canmiao Fu, Wenjie Pei, Qiong Cao, Chaopeng Zhang, Xiaoyong Shen, Yong Zhao, Yu-Wing Tai*
- **MMFace: a multi-metric regression network for unconstrained face reconuction** CVPR, 2019  
*Hongwei Yi, Chen Li, Qiong Cao, Xiaoyong Shen, Sheng Li, Guoping Wang, Yu-Wing Tai*
- **Automated video face labelling for films and TV material** TPAMI, 2018  
*Omkar Parkhi, Esa Rahtu, Qiong Cao, Andrew Zisserman*
- **Vggface2: a dataset for recognising faces across pose and age** FG, 2018  
*Qiong Cao, Li Shen, Weidi Xie, Omkar M Parkhi, Andrew Zisserman*
- **Template adaptation for face verification and identification** FG, 2017  
*Nate Crosswhite, Jeffrey Byrne, Omkar M Parkhi, Chris Stauffer, Qiong Cao, Andrew Zisserman*
- **Generalization bounds for metric and similarity learning** Manching Learning Journal, 2016  
*Qiong Cao, Zheng-Chu Guo, Yiming Ying*
- **Similarity metric learning for face recognition** ICCV, 2013  
*Qiong Cao, Yiming Ying, Peng Li*
- **Distance metric learning revisited** ECML, 2012  
*Qiong Cao, Yiming Ying, Peng Li*

## COMPUTER SKILLS

---

- **Programming languages:** Python, C++, Matlab, SQL
- **Deep learning frameworks:** Pytorch, Tensorflow, Caffe, MatconvNet
- **Libaries:** VLFeat, OpenCV, Liblinear, Dlib
- **Operating systems:** Linux, Mac OS, Windows

## PROFESSIONAL ACTIVITIES

---

- Reviewer for CVPR, NIPS, AAAI, AISTATS, TPAMI, PR.
- Mentor for Tencent Talent Training Program, 2018.
- Invited talk at Tencent SNG Academic and Industrial Conference, 2017.
- Contributed speaker at International Conference on Approximation Theory and Applications, Hong Kong, 2013.