

## Mr. Yuanjun Xiong

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### CURRENT STATUS

I am currently a postdoctoral fellow in department of information engineering in CUHK. I work closely with Prof. Xiaoou Tang and Prof. Dahua Lin. My research focuses on using machine learning methods to solve computer vision problems, especially human activity analysis.

### EDUCATION

*PhD in Information Engineering* August 2012 - July 2016  
Department of Information Engineering  
The Chinese University of Hong Kong, Hong Kong  
Research areas: machine learning, computer vision, deep learning.  
Thesis: *Visual Understanding by Learning from Multiple Data Aspects*

*Bachelor of Engineering* August 2008 - July 2012  
Department of Automation  
Tsinghua University, Beijing, China, 2012  
Thesis: *Dynamic 3D Human Face Aging Emulation*

*Bachelor of Economics, secondary degree* August 2009 - July 2012  
School of Economics and Management  
Tsinghua University, Beijing, China, 2012

### EXPERIENCE

*Postdoctoral Fellow* August 2016 - Present  
Department of Information Engineering, CUHK, Hong Kong

*PhD Student* Fall 2012 - July 2016  
Department of Information Engineering, CUHK, Hong Kong

*Visiting Researcher* January 2015 - April 2015  
Google Inc., Mountain View, CA, United States.  
I worked in Project Abacus of Google ATAP leading its visual recognition team to build a continuous mobile user authentication system for android devices.

### PUBLICATIONS

Limin Wang, **Yuanjun Xiong**, Dahua Lin, Luc Van Gool. "UntrimmedNets for Weakly Supervised Action Recognition and Detection," Accepted to *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2017

**Yuanjun Xiong**, Yue Zhao Limin Wang Dahua Lin, Xiaoou Tang. "A Pursuit of Temporal Accuracy in General Activity Detection," In *CoRR*, abs/1703.02716, 2015.

Limin Wang, **Yuanjun Xiong**, Zhe Wang, Yu Qiao, Dahua Lin, Xiaoou Tang, Luc Van Gool. "Temporal Segment Networks: Towards Good Practices for Deep Action Recognition," In *Europe Conference on Computer Vision (ECCV)*, 2016

**Yuanjun Xiong**, Kai Zhu, Dahua Lin, Xiaoou Tang. "Recognize Complex Events from Static Images by Fusing Deep Channels," In *Computer Vision and Pattern Recognition (CVPR)*, 2015.

Limin Wang, **Yuanjun Xiong**, Zhe Wang, Yu Qiao. “Towards Good Practices for Very Deep Two-Stream ConvNets,” In *CoRR*, abs/1507.02159, 2015.

**Yuanjun Xiong**, Wei Liu, Deli Zhao, Xiaoou Tang. “Zeta Hull Pursuits: Learning Non-convex Data Hulls,” In *Advances in Neural Information Processing Systems (NIPS)*, 2014.

**Yuanjun Xiong**, Wei Liu, Deli Zhao, Xiaoou Tang. “Face Recognition via Archetype Hull Ranking,” In *IEEE International Conference on Computer Vision (ICCV)*, 2013.

Limin Wang, Sheng Guo, Weilin Huang, **Yuanjun Xiong**, Yu Qiao. “Knowledge Guided Disambiguation for Large-Scale Scene Classification with Multi-Resolution CNNs,” accepted to *IEEE Transaction on Image Processing (TIP)*, 2017.

**Yuanjun Xiong**, Limin Wang, Zhe Wang, Bowen Zhang, Hang Song, Wei Li, Dahua Lin, Yu Qiao, Luc Van Gool, Xiaoou Tang. “CUHK & ETHZ & SIAT Submission to ActivityNet Challenge 2016,” In *CoRR*, abs/ 1608.00797, 2016.

Limin Wang, **Yuanjun Xiong**, Zhe Wang, Yu Qiao. “CUHK & SIAT submission for THUMOS15 action recognition challenge,” In *THUMOS15 Action Recognition Challenge*, 2015.

Wanli Ouyang, Ping Luo, Xingyu Zeng, Shi Qiu, Yonglong Tian, Hongsheng Li, Shuo Yang, Zhe Wang, **Yuanjun Xiong**, Chen Qian, Zhenyao Zhu, Ruohui Wang, Chen Change Loy, Xiaogang Wang, Xiaoou Tang. “DeepID-Net: multi-stage and deformable deep convolutional neural networks for object detection,” In *CoRR*, abs/1409.3505, 2014.

<b>PROFESSIONAL ACTIVITIES</b>	Reviewer, AAAI Conference on Artificial Intelligence (AAAI).	2017
	Reviewer, IEEE Transactions on Information Forensics & Security (TIFS).	2017
	Reviewer, IET Computer Vision.	2017
	Reviewer, IEEE Transactions on Multimedia (TMM).	2017
	Reviewer, IEEE Transactions on Circuits and Systems for Video Technology.	2016
	Reviewer, Computer Vision and Image Understanding (CVIU).	2016
	Reviewer, IET Computer Vision.	2016
	Reviewer, Machine Vision and Application (MVA).	2016
Reviewer, International Journal of Machine Learning and Cybernetics (IJMLC).	2014	

<b>HONORS &amp; AWARDS</b>	Winner, ActivityNet Large-Scale Activity Recognition Challenge	June, 2016
	3rd-Place, ImageNet Large-Scale Visual Recognition Challenge	September, 2016
	5-th, THUMOS15 Untrimmed Video Action Recognition Challenge	June, 2015
	Runner-Up, ImageNet Large-Scale Visual Recognition Challenge	August, 2014

Research Fellowship, Chinese University of Hong Kong	September 2016
Hong Kong PhD Fellowship, The Research Grants Council	2012 - 2016
Gold Medal, ACM ICPC (Asia Regional), Beijing	October 2011
Academic Excellence Scholarship, Tsinghua University	September 2010
First Prize in Beijing College Physics Contest, Beijing	March 2010
Huang Yicong Couple Scholarship (Top 5%), Tsinghua University	September 2009

<b>PROJECTS</b>	<i>ActivityNet Large Scale Activity Recognition Challenge 2016</i>	Jul, 2016
	Result site: <a href="http://activity-net.org/challenges/2016/program.html">http://activity-net.org/challenges/2016/program.html</a>	
	I led the team of CUHK&ETH&SIAT. We achieved a mean AP of 93.23% in recog-	

nizing 20000 untrimmed web videos, securing the first place in the challenge.

*ImageNet Large-Scale Visual Recognition Challenge (ILSVRC) 2016* Sep, 2016  
Our team won the 3rd place in the image classification and localization task. My software is recognized by two champion teams in other two tasks (object detection, video object detection).

*Fast Parallel Caffe* Jul, 2015  
Website link: <https://github.com/yjxiong/caffe>  
I implemented a modified Caffe toolbox enabling high efficiency parallel training for deep CNN models. It is used by multiple winning teams in ILSVRC 2014/2015/2016.

*Web Image Dataset for Event Recognition (WIDER)* Jun, 2015  
Website link: [http://personal.ie.cuhk.edu.hk/~xy012/event\\_recog/WIDER/](http://personal.ie.cuhk.edu.hk/~xy012/event_recog/WIDER/)  
We built a large-scale dataset for researching event recognition in still images. I wrote the framework for data collection, annotation, and conducting baseline experiments.

*THUMOS Challenge 2015* Jun, 2015  
Result site: <http://www.thumos.info/results.html>  
Our team (CUHK & SIAT) ranked 5-th in THUMOS15 untrimmed video action recognition challenge.

*Mobile User Authentication* Jul, 2015  
I worked in Google ATAP as a visiting researcher leading the visual recognition team of Project Abacus. The project aims to build a continuous mobile user authentication system for android devices.

*ImageNet Large-Scale Visual Recognition Challenge (ILSVRC) 2014* Aug, 2014  
Result site: <http://www.image-net.org/challenges/LSVRC/2014/results>  
Our team (CUHK DeepID-Net) won the runner-up position in the LSVRC 2014 object detection challenge. I led the development of our optimized training frameworks.

## COMPUTER SKILLS

*Languages & Software:* C/C++, CUDA, Python, MATLAB, PHP, Java, L<sup>A</sup>T<sub>E</sub>X.  
*Operating Systems:* Linux, Windows.