

# Xuanyi Dong

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## Education

**University of Technology Sydney** | Ph.D. in Computer Science  
Mar 2017 – now | NSW, Australia | Advisor : Prof. Yi Yang

**Beihang University** | B.S. in Computer Science  
Sep 2012 – Jul 2016 | Beijing, China

## Conference Publications

### [1] Supervision-by-Registration: An Unsupervised Approach to Improve the Precision of Facial Landmark Detectors

Xuanyi Dong, Shoou-I Yu, Xinshuo Weng, Shih-En Wei, Yi Yang, Yaser Sheikh  
Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018

### [2] Style Aggregated Network for Facial Landmark Detection

Xuanyi Dong, Yan Yan, Wanli Ouyang, Yi Yang  
Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018

### [3] Fast Parameter Adaptation for Few-shot Image Captioning and Visual Question Answering

Xuanyi Dong, Linchao Zhu, De Zhang, Yi Yang, Fei Wu  
Proc. of the ACM International Conference on Multimedia (ACM-MM), 2018

### [4] Exploit the Unknown Gradually: One-Shot Video-Based Person Re-Identification by Stepwise Learning

Yu Wu, Yutian Lin, Xuanyi Dong, Yan Yan, Wanli Ouyang, Yi Yang  
Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018

### [5] Soft Filter Pruning for Accelerating Deep Convolutional Neural Networks

Yang He, Guoliang Kang, Xuanyi Dong, Yanwei Fu, Yi Yang  
Proc. of the International Joint Conference on Artificial Intelligence (IJCAI), 2018

### [6] More is Less: A More Complicated Network with Less Inference Complexity

Xuanyi Dong, Junshi Huang, Yi Yang, Shuicheng Yan  
Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2017

### [7] A Dual-Network Progressive Approach to Weakly Supervised Object Detection

Xuanyi Dong, Deyu Meng, Fan Ma, Yi Yang  
Proc. of the ACM International Conference on Multimedia (ACM-MM), 2017

### [8] Self-Paced Co-training

Fan Ma, Deyu Meng, Qi Xie, Zina Li, Xuanyi Dong  
Proc. of the International Conference on Machine Learning (ICML), 2017

## Journal Publications

### [1] Few-Example Object Detection with Model Communication

Xuanyi Dong, Liang Zheng, Fan Ma, Yi Yang, Deyu Meng  
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2018

### [2] Late Fusion via Subspace Search with Consistency Preservation

Xuanyi Dong, Yan Yan, Mingkui Tan, Yi Yang, Ivor W. Tsang  
IEEE Transactions on Image Processing (TIP), 2019

## Research and Industry Experience

**Facebook Reality Labs** | Research Intern | hosted by Dr. Shoou-I Yu  
May 2017 – Sep 2017 | Pittsburgh, PA

- Precise and Stable Facial Landmark Detection in High Resolution Videos.

## **Qihoo 360 | Research Intern | hosted by Prof. Shuicheng Yan**

Feb 2016 – Oct 2016 | Beijing, P. R. China

- Deep CNN model acceleration (mainly focus on accelerating ResNet).
- Developed efficient object detection algorithms in the scenario of autonomous driving.

## **SenseTime Group Limited | Research Intern | hosted by Dr. Junjie Yan**

Sep 2015 – Jan 2016 | Beijing, P. R. China

- Large-scale general object detection. Won the 2nd/3rd place in ILSVRC2015 DET/LOC tasks as the core member in "CUimage" team.
- Face Detection SDK. I implement an online detection-tracking-verification framework for the surveillance system.

## **AWARDS**

### **TREC Video Retrieval Evaluation , Oct 2016**

1st Place in Video Localization Task.

### **Large Scale Visual Recognition Challenge , Dec 2015**

3rd Place on Object Detection Task; 2nd Place on Object Localization Task

I was responsible for training Faster RCNN with different backbones, building the multi-scale testing pipeline, and ensembling different detection models.

### **ACM International Collegiate Programming Contest , Oct 2014 – Jul 2015**

Gold × 2, Silver Medals

I was the team leader, responsible for assigning different problems to each teammate and coordinating the computer usage. We have three people and only one computer to solve ten problems in five hours.

## **Academic Services**

Journal Reviewer

- International Journal of Computer Vision (IJCV)
- IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)
- Pattern Recognition (PR)

Conference Reviewer

- ACM Multimedia (ACM MM), 2017, 2018