

# Chaoyang Wang

I'm currently a CS master student at Shanghai Jiao Tong University.

I'm interested in computer vision & machine learning.

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## Education

- **Shanghai Jiao Tong University** M.S. in CS  
*Supervised by Prof. Liqing Zhang* 2013 - 2016
- **Shanghai Jiao Tong University** B.E. in CS  
*Member of ACM teaching reform class(25 top students selected from the whole univ.)* 2009 - 2013

## Research Experience

- **Microsoft Research Asia, Visual Computing Group** 07/2014-05/2015  
*Advisor: Dr. Yichen Wei*
  - Proposed Multi-branched hierarchical segmentation for generic object proposal, which improves R-CNN object detector's accuracy and reduces its computational cost by 30%.
  - Developed a cost-sensitive learning algorithm to optimize decision thresholds for cascaded object detectors. Speed up a face detector by 40% with minor accuracy reduction.
  - Depth-camera based hand pose estimation using DNN.
- **Brain-like Computing&Machine Intelligence Lab** 09/2013-12/2015  
*Advisor: Prof. Liqing Zhang*
  - Learning discriminative object part detectors from multi-layer CNN features.
  - Line-of-interest pedestrian counting in surveillance video.
- **Microsoft Research Asia, Speech Group** 07/2012 - 03/2013  
*Advisor: Prof. Frank K. Soong, Dr. Lijuan Wang, Prof. Yasuyuki Matsushita*
  - Built a binocular photometric stereo system for facial performance capturing.
  - Text driven photo realistic talking head.

## Publications

- **Chaoyang Wang, Long Zhao, Shuang Liang, Liqing Zhang, Jinyuan Jia, Yichen Wei**, "Object Proposal by Multi-branched Hierarchical Segmentation", CVPR 2015.
- **Chaoyang Wang, Lijuan Wang, Yasuyuki Matsushita, Bojun Huang, Magnetron Chen, Frank K. Soong**, "Binocular Photometric Stereo Acquisition and Reconstruction for 3D Talking Head Applications", INTERSPEECH 2013.

## Programming Skills

- C, C++, Matlab, Java, Python, Julia

## Recent Awards, Grants & Honours

National Scholarship . . . . . 2015  
Microsoft Research Asia Excellent Internship Award . . . . . 2015  
First-class Academic Scholarship, Shanghai Jiao Tong Univ. . . . . 2013, 2014 & 2015  
Microsoft Research Asia Young Scholar Fellowship . . . . . 2012  
Second Prize in Physics Contest for Shanghai College Students . . . . . 2010  
Third-class Academic Scholarship, Shanghai Jiao Tong Univ. . . . . 2009 - 2012

## Professional Activities

- Attend CVPR 2015.
- TA: “CS377: Project Workshop of Database System”, 2013.
- Student volunteer of IEEE FG 2013.

## English Test Scores

- TOFEL: 106 (S:22, W:28, L:29, R:27)
- GRE: 323 (V:153, Q:170), AW:3.5