

Cheng Zhang

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Education

The Ohio State University (OSU), OH, U.S.
Ph.D. in Computer Science and Engineering
Advisor: Wei-Lun (Harry) Chao and Dong Xuan

01/2017 - present

Beijing University of Posts and Telecommunications (BUPT), Beijing, China
M.S. in Computer Science and Engineering
Thesis: *Research on Key Techniques of Gait Recognition based on Deep Learning (Best Thesis)* [[thesis](#)][[slides](#)]
Advisor: Huadong Ma

2013 - 2016

Tianjin University (TJU), Tianjin, China
B.S. in Computer Software
Thesis: *Minimum Topological Discrepancy Grid of Superpixels for Fast Object Localization (Best Thesis)* [[thesis](#)][[slides](#)]
Advisor: Wei Feng

2009 - 2013

Research Interests

Machine Learning, Computer Vision, and Mobile Sensing

Experience

Ohio State University,
Research assistant, Advisor: Wei-Lun (Harry) Chao
I am working on transfer learning (few-shot learning), graph networks and computer vision.

09/2018 - present

DeepCode Robotics, Shanghai, China
Intern, Advisor: Dong Xuan
I worked on developing novel algorithms and systems for real-time sports analysis and robot planning. [[INFOCOM'18](#)]

05/2017 - 08/2017, 05/2018 - 08/2018

Beijing University of Posts and Telecommunications, Beijing, China
Graduate Research Assistant, Advisor: Huadong Ma
I worked on applying computer vision algorithms to solve real-world applications such as human identification [[ICASSP'16](#)], vision-based air quality monitoring [[IMWUT'18](#)], and inter-camera object tracking [[HHME'15](#)].

09/2013 - 04/2016

Alibaba, Beijing, China
Intern in Multimedia Team (currently DAMO Academy), Mentor: Xian-Sheng Hua and Pan Pan
I worked on large-scale image categorization for Pailitao product - the visual search service on Mobile Taobao. [[slides](#)]

07/2015 - 09/2015

Huawei, Beijing, China
Intern in 2012 Laboratories, Mentor: Ke Xia
I worked on using machine learning methods to automatically detect high risk BOM products for Huawei HUMMER early warning system. (Joint project between BUPT and Huawei)

08/2014 - 04/2015

Tianjin University, Tianjin, China
Undergraduate student in Media Computing Group, Advisor: Wei Feng
I worked on superpixel gridization for fast object localization. [[slides](#)]

09/2011 - 06/2013

Publications

Conference Proceedings

1. **MV-Sports: A Motion and Vision Sensor Integration-Based Sports Analysis System**
Cheng Zhang, Fan Yang, Gang Li, Qiang Zhai, Yi Jiang, Dong Xuan
IEEE International Conference on Computer Communications (INFOCOM), Honolulu, HI, USA, Apr 2018
2. **Third-Eye: A Mobilephone-Enabled Crowdsensing System for Air Quality Monitoring**
Liang Liu, Wu Liu, Yu Zheng, Huadong Ma, Cheng Zhang
ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp), Singapore, Oct 2018
3. **Siamese Neural Network based Gait Recognition for Human Identification**
Cheng Zhang, Wu Liu, Huadong Ma, Huiyuan Fu
IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), Shanghai, China, Mar 2016

Journal Articles

1. **Third-Eye: A Mobilephone-Enabled Crowdsensing System for Air Quality Monitoring**
Liang Liu, Wu Liu, Yu Zheng, Huadong Ma, Cheng Zhang
Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), Mar 2018
2. **Learning Efficient Spatial-Temporal Gait Features with Deep Learning for Human Identification**
Wu Liu, Cheng Zhang, Huadong Ma, Shuangqun Li
Neuroinformatics, Feb 2018
3. **Scene-free Multi-class Weather Classification on Single Images**
Zheng Zhang, Huadong Ma, Huiyuan Fu, Cheng Zhang
Neurocomputing, May 2016

Patents

1. **Method and Device for Gait Recognition**
Huadong Ma, Wu Liu, Huiyuan Fu, Cheng Zhang
US Patent, 9633268

Honors and Awards

Ph.D. in Ohio State

Ranked No.3 in Look into Person Challenge: [Multi-Human Pose Estimation](#) (with CVPR 2018)
IEEE INFOCOM Student Travel Grant Award, 2018
Ranked No.3 in Look into Person Challenge: [Single Person Human Pose Estimation](#) : (with CVPR 2017)

M.S. in BUPT

Best Master's Thesis, BUPT, 2016
IEEE ICASSP Student Travel Grant Award, 2016
Excellent Graduate, Beijing City, 2016
National Scholarship, Ministry of Education, China, 2015
VMware Excellent Scholarship, 2014

B.S. in Tianjin University

Best Undergraduate Thesis, 2013
Excellent Graduate, TJU, 2013
Hitachi Scholarship, 2012
Golden Award, the 8th Challenge Cup Innovation Competition, China, 2012
Weichai Power Scholarship (twice), 2010 and 2011

Professional Activities

Reviewer for Journals

ACM Transactions on Sensor Networks (ToSN)

Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)

Machine Vision and Applications (MVA), Springer

Reviewer for Conferences

IEEE ICME₁₉, IEEE INFOCOM₁₉, IEEE ICIP₁₇₋₁₈, IEEE GlobalSIP₁₇₋₁₈

Teaching

The Ohio State University

GTA, CSE 4471: *Information Security*, Fall 2018, Instructor: Dong Xuan

GTA, CSE 5432: *Mobile Handset Systems and Networking*, Fall 2018, Instructor: Dong Xuan

Beijing University of Posts and Telecommunications

GTA, *Computer Graphics*, Fall 2015, Instructor: Haitao Zhang

Skills

Language

C/C++, Python, Matlab, Scala, Shell, CUDA

Tool

Pytorch, Caffe, Tensorflow, Darknet

Last updated: November 17, 2018