

Cheng Zhang

The Ohio State University
Dept. of Computer Science & Engineering
2015 Neil Avenue
Columbus, OH 43210

Phone: 614-264-0299 (US), +86-18301559031 (CN)
Email: zhang.7804@osu.edu
Homepage: <https://czhang0528.github.io/>
GitHub: <https://github.com/czhang0528/>

Education

Ph.D. in Computer Science and Engineering 01/2017 - present
The Ohio State University (OSU), OH, U.S.

M.S. in Computer Science and Engineering 2013 - 2016
Beijing University of Posts and Telecommunications (BUPT), Beijing, China
Thesis: Research on Key Techniques of Gait Recognition based on Deep Learning (Best Thesis) [[thesis](#)][[slides](#)]
Advisor: Prof. Huadong Ma

B.S. in Computer Software 2009 - 2013
Tianjin University (TJU), Tianjin, China
Thesis: Minimum Topological Discrepancy Grid of Superpixels for Fast Object Localization (Best Thesis) [[thesis](#)][[slides](#)]
Advisor: Prof. Wei Feng

Research Interests

Mobile and Robot System | Computer Vision and Multimedia

Experience

DeepCode Robotics, Shanghai, China 05/2017 - 08/2017, 05/2018 - 08/2018
Intern, Mentor: Fan Yang and Qiang Zhai
I worked on developing novel algorithms and systems for real-time sports analysis and robot planning. [[INFOCOM'18](#)]

Beijing University of Posts and Telecommunications, Beijing, China 09/2013 - 04/2016
Graduate Research Assistant, Advisor: Huadong Ma, Wu Liu and Liang Liu
I worked on applying computer vision algorithms to solve real-world applications such as human identification [[ICASSP'16](#)] [[Neuroinformatics'18](#)], vision-based air quality monitoring [[IMWUT'18](#)], low resolution face restoration [PR'18] and inter-camera object tracking [[HHME'15](#)].

Alibaba, Beijing, China 07/2015 - 09/2015
Intern in Multimedia Team (currently iDST), Mentor: Xian-Sheng Hua and Pan (Phil) Pan
I worked on large-scale image categorization for Pailitao product - the visual search service on Mobile Taobao. [[slides](#)]

Huawei, Beijing, China 08/2014 - 04/2015
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)

Tianjin University, Tianjin, China 09/2011 - 06/2013
Undergraduate student in Media Computing Group, Advisor: Wei Feng
I worked on superpixel gridization for fast object localization. [[slides](#)]

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), 2016-

Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT), 2017-

Machine Vision and Applications (MVA), Springer, 2017-

Reviewer for Conferences

IEEE International Conference on Image Processing (ICIP), 2017, 2018

IEEE Global Conference on Signal and Information Processing (GlobalSIP), 2017

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: July 2, 2018