

# ZHEDONG ZHENG

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## EDUCATION AND RESEARCH EXPERIENCE

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<b>University of Technology Sydney</b> , Sydney, Australia	2017 - Present
Ph.D Student (Advisors: Prof. Yi Yang and Dr. Liang Zheng)	
<b>Nvidia Research</b> , San Jose, United States	2018
Research Intern (Hosts: Dr. Xiaodong Yang, Dr. Zhiding Yu and Dr. Jan Kautz)	
<b>Fudan University</b> , Shanghai, China	2012 - 2016
B.S. in Computer Science (Advisor: Prof. Xiangyang Xue)	

## RESEARCH INTEREST

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### Computer Vision and Machine Learning

Image Retrieval, Person Re-identification, Image-text Understanding

Image Generation, Pedestrian Generation, Adversarial Samples

## PUBLICATIONS

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1. Joint Discriminative and Generative Learning for Person Re-identification.  
IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2019. (Oral)  
**Zhedong Zheng**, Xiaodong Yang, Zhiding Yu, Liang Zheng, Yi Yang, Jan Kautz
2. Unlabeled Samples Generated by GAN Improve the Person Re-identification Baseline in vitro.  
IEEE International Conference on Computer Vision (**ICCV**), 2017. (Spotlight)  
**Zhedong Zheng**, Liang Zheng, Yi Yang (**Cited by 800+ times**)
3. Unsupervised Scene Adaptation with Memory Regularization in vivo.  
International Joint Conference on Artificial Intelligence (**IJCAI**), 2020.  
**Zhedong Zheng**, Yi Yang
4. University-1652: A Multi-view Multi-source Benchmark for Drone-based Geo-localization.  
ACM Multimedia (**ACM MM**), 2020.  
**Zhedong Zheng**, Yunchao Wei, Yi Yang
5. A Discriminatively Learned CNN Embedding for Person Re-identification.  
ACM Transactions on Multimedia Computing, Communications, and Applications (**TOMM**), 2018.  
**Zhedong Zheng**, Liang Zheng, Yi Yang (**ESI Highly Cited Paper**)
6. Pedestrian Alignment Network for Large-scale Person Re-identification.  
IEEE Transactions on Circuits and Systems for Video Technology (**TCSVT**), 2019.  
**Zhedong Zheng**, Liang Zheng, Yi Yang (**ESI Highly Cited Paper**)
7. Dual-Path Convolutional Image-Text Embedding.  
ACM Transactions on Multimedia Computing, Communications, and Applications (**TOMM**), 2020.  
**Zhedong Zheng**, Liang Zheng, Michael Garrett, Yi Yang, Yi-Dong Shen
8. VehicleNet: Learning Robust Feature Representation for Vehicle Re-identification.  
IEEE Transactions on Multimedia (**TMM**), 2020.  
**Zhedong Zheng**, Tao Ruan, Yunchao Wei, Yi Yang, Mei Tao
9. Real-World Automatic Makeup via Identity Preservation Makeup Net.  
International Joint Conference on Artificial Intelligence (**IJCAI**), 2020.

Zhikun Huang, **Zhedong Zheng**, Chenggang Yan, Hongtao Xie, Yaoqi Sun, Jianzhong Wang, Jiyong Zhang

10. Macro-Micro Adversarial Network for Human Parsing.

European Conference on Computer Vision (**ECCV**), 2018.

Luo Yawei, **Zhedong Zheng**, Liang Zheng, Tao Guan, Junqing Yu, Yi Yang

11. Camera Style Adaptation for Person Re-identification.

IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018.

Zhun Zhong, Liang Zheng, **Zhedong Zheng**, Shaozi Li, Yi Yang

12. Multi-pseudo Regularized Label for Generated Samples in Person Re-Identification.

IEEE Transactions on Image Processing (**TIP**), 2018.

Yan Huang, Jinsong Xu, Qiang Wu, **Zhedong Zheng**, Zhaoxiang Zhang, Jian Zhang

13. Camstyle: a novel data augmentation method for person re-identification.

IEEE Transactions on Image Processing (**TIP**), 2018.

Zhun Zhong, Liang Zheng, **Zhedong Zheng**, Shaozi Li, Yi Yang

14. Improving Person Re-identification by Attribute and Identity Learning.

Pattern Recognition (**PR**), 2019.

Yutian Lin, Liang Zheng, **Zhedong Zheng**, Yu Wu, Yi Yang

15. Bayesian query expansion for multi-camera person re-identification.

Pattern Recognition Letters, 2018.

Yutian Lin, **Zhedong Zheng**, Hong Zhang, Chenqiang Gao, Yi Yang

16. Diagnose like a Radiologist: Attention Guided Convolutional Neural Network for Thorax Disease Classification.

Pattern Recognition Letters, 2020.

Qingji Guan, Yaping Huang, Zhun Zhong, **Zhedong Zheng**, Liang Zheng, Yi Yang

17. Unsupervised Eyeglasses Removal in the Wild.

IEEE Transactions on Cybernetics, 2020.

Bingwen Hu, **Zhedong Zheng**, Ping Liu, Wankou Yang, Mingwu Ren

## ARXIV PAPERS

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1. Open Set Adversarial Examples.

**Zhedong Zheng**, Liang Zheng, Zhilan Hu, Yi Yang

2. Rectifying Pseudo Label Learning via Uncertainty Estimation for Domain Adaptive Semantic Segmentation.

**Zhedong Zheng**, Yi Yang

3. Person Re-identification in the 3D Space.

**Zhedong Zheng**, Yi Yang

4. Progressive Local Filter Pruning for Image Retrieval Acceleration.

Xiaodong Wang, **Zhedong Zheng**, Yang He, Fei Yan, Zhiqiang Zeng, Yi Yang

## AWARDS

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First Place Winner in AICity Challenge, CVPR 2020

First-class Scholarship at Fudan University 2013, 2014, 2015, 2016

## OPEN SOURCE

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Codes and models for my published papers are available on my GitHub: <https://github.com/layumi>