

# 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>Baidu Research</b> , Beijing, China	2020
Remote Research Intern (Hosts: Dr. Mingyue Jiang and Dr. Xiao Tan)	
<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, Domain Adaptation, 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. Rectifying Pseudo Label Learning via Uncertainty Estimation for Domain Adaptive Semantic Segmentation.  
International Journal of Computer Vision (**IJCV**), 2020.  
**Zhedong Zheng**, Yi Yang
6. 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**)
7. 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**)
8. 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

9. 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
10. Going beyond real data: A robust visual representation for vehicle re-identification  
IEEE Conference on Computer Vision and Pattern Recognition Workshop (**CVPR Workshop**), 2020  
**Zhedong Zheng**, Minyue Jiang, Zhigang Wang, Jian Wang, Zechen Bai, Xuanmeng Zhang, Xin Yu, Xiao Tan, Yi Yang, Shilei Wen and Errui Ding (**Challenge Winner**)
11. 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
12. 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
13. 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
14. 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
15. 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
16. Improving Person Re-identification by Attribute and Identity Learning.  
Pattern Recognition (**PR**), 2019.  
Yutian Lin, Liang Zheng, **Zhedong Zheng**, Yu Wu, Yi Yang
17. Bayesian query expansion for multi-camera person re-identification.  
Pattern Recognition Letters, 2018.  
Yutian Lin, **Zhedong Zheng**, Hong Zhang, Chenqiang Gao, Yi Yang
18. 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
19. 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. Person Re-identification in the 3D Space.  
**Zhedong Zheng**, Yi Yang
3. Progressive Local Filter Pruning for Image Retrieval Acceleration.  
Xiaodong Wang, **Zhedong Zheng**, Yang He, Fei Yan, Zhiqiang Zeng, Yi Yang

4. Each Part Matters: Local Patterns Facilitate Cross-view Geo-localization.

Tingyu Wang, **Zhedong Zheng**, Chenggang Yan, 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>