

# ZHEDONG ZHENG

Personal Webpage: <http://zdzheng.xyz> • [Google Scholar](#)

Email: [zdzheng12@gmail.com](mailto:zdzheng12@gmail.com)

## 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: Mr. 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. 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
2. 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
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 with Instance Loss.  
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 Visual 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. Decoupled and Memory-Reinforced Networks: Towards Effective Feature Learning for One-Step Person Search.  
The AAAI Conference on Artificial Intelligence (**AAAI**), 2021.  
Chuchu Han, **Zhedong Zheng**, Changxin Gao, Nong Sang, Yi Yang
13. 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
14. 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
15. 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
16. 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 (**ESI Highly Cited Paper**)
17. Improving Person Re-identification by Attribute and Identity Learning.  
Pattern Recognition (**PR**), 2019.  
Yutian Lin, Liang Zheng, **Zhedong Zheng**, Yu Wu, Yi Yang (**ESI Highly Cited Paper**)
18. Bayesian query expansion for multi-camera person re-identification.  
Pattern Recognition Letters, 2018.  
Yutian Lin, **Zhedong Zheng**, Hong Zhang, Chenqiang Gao, Yi Yang
19. 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
20. Unsupervised Eyeglasses Removal in the Wild.  
IEEE Transactions on Cybernetics, 2020.  
Bingwen Hu, **Zhedong Zheng**, Ping Liu, Wankou Yang, Mingwu Ren
21. Each Part Matters: Local Patterns Facilitate Cross-view Geo-localization.  
IEEE Transactions on Circuits and Systems for Video Technology (**TCSVT**), 2021.  
Tingyu Wang, **Zhedong Zheng**, Chenggang Yan, Yi Yang

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

## AWARDS & COMPETITIONS

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AICity Challenge 2020: Vehicle Re-identification Challenge, Rank 1st / 64 teams, CVPR 2020

AICity Challenge 2019: Vehicle Re-identification Challenge, Rank 4th / 84 teams, CVPR 2019

VisDA 2019: Semi-Supervised Domain Adaptation Challenge, Rank 4th / 57 teams, ICCV 2019

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

## REVIEW SERVICES

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IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)

International Journal of Computer Vision (IJCV)

IEEE Transactions on Image Processing (TIP)

IEEE Transactions on Multimedia (TMM)

IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)

ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM)

Computer Vision and Pattern Recognition (CVPR)

International Conference on Computer Vision (ICCV)

European Conference on Computer Vision (ECCV)

International Joint Conference on Artificial Intelligence (IJCAI)

AAAI Conference on Artificial Intelligence (AAAI)

ACM Multimedia (ACM MM)

## OPEN SOURCE

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Codes and models for my published papers are available on my GitHub: <https://github.com/layumi>  
(5,000 stars and 1,300 followers)