

WEIJIAN DENG

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

Email: weijian.deng@anu.edu.au ◊ PhD student at Australian National University

Out-of-distribution Generalization ◊ Unsupervised Model Evaluation ◊ Domain Adaptation

EDUCATION

Australian National University, Australia *Jul 2019 - Present*

Research Topic: Out-of-Distribution Generalization

Supervisors: Dr. Liang Zheng, Dr. Yumin Suh, Prof. Stephen Gould

University of Chinese Academy of Sciences, China *Sep 2016 - Jun 2019*

Master of Science in Computer Science

Research Topic: Object Recognition

Supervisor: Prof. Jianbin Jiao

Beijing Jiaotong University, China *Sep 2012 - Jun 2016*

Bachelor of Engineering

Overall GPA: 92.3/100

WORK EXPERIENCE

NEC Laboratories America, INC. *Jun 2020 - Sep 2020*

Research Intern (Remote) on Multi-task Learning

Hosted by Dr. Yu Xiang and Dr. Yumin Suh

Singapore University of Technology and Design *Aug 2019 - Nov 2019*

Research Assistant on Domain Adaptation

Hosted by Dr. Liang Zheng

AWARDS

NeurIPS 2022 Scholar Award, 2022

ICML 2022 Top 10% Reviewer, 2022

ECCV 2020 Outstanding Reviewer, 2022

Australian Government Research Training Program (AGRTP) Scholarship, 2019-2023

The Third Place in Vehicle Re-identification track of CVPR 2019 AI-City Challenge, 2019

China National Scholarship (Master), 2018

China National Scholarship (Bachelor), 2014, 2015

Merit Student, University of Chinese Academy of Sciences, 2018

Outstanding Graduates of Beijing, 2016

Merit Student of Beijing, 2015

Merit Student, Beijing Jiaotong University, 2013-2015

First-class Scholarship at Beijing Jiaotong University, 2014-2015

Second-class Scholarship at Beijing Jiaotong University, 2013

PROFESSIONAL SERVICE

Co-organizer: CVPR'22 Tutorial on Evaluating Models Beyond the Textbook: Out-of-distribution and Without Labels (<https://sites.google.com/view/evalmodel>)

Co-organizer: ECCV'20 Visual Domain Adaptation Challenge (<http://ai.bu.edu/visda-2020>)

Conference Reviewer: NeurIPS'22; ICML'22; ICLR'22-23; ICCV'21; CVPR'21-22; ECCV'20;

Journal Reviewer: IEEE-TPAMI; IEEE-TIP; PR

PUBLICATIONS

Refereed Journals

- [1] AutoEval: Are Labels Always Necessary for Classifier Accuracy Evaluation?
Weijian Deng and Liang Zheng
IEEE Transactions on Pattern Analysis and Machine Intelligence (**TPAMI**), 2022
- [2] Fine-grained Classification via Categorical Memory Networks
Weijian Deng, Joshua Marsh, Stephen Gould, and Liang Zheng
IEEE Transactions on Image Processing (**TIP**), 2022
- [3] Rethinking Triplet Loss for Domain Adaptation
Weijian Deng, Liang Zheng, Yifan Sun, and Jianbin Jiao
IEEE Transactions on Circuits and Systems for Video Technology (**TCSVT**), 2020

Refereed Conferences

- [4] On the Strong Correlation Between Model Invariance and Generalization
Weijian Deng, Stephen Gould, and Liang Zheng
Neural Information Processing Systems (**NeurIPS**), 2022
- [5] What Does Rotation Prediction Tell Us about Classifier Accuracy under Varying Testing Environments?
Weijian Deng, Stephen Gould, and Liang Zheng
International Conference on Machine Learning (**ICML**), 2021
- [6] Are Labels Always Necessary for Classifier Accuracy Evaluation?
Weijian Deng and Liang Zheng
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2021
- [7] Image-Image Domain Adaptation with Preserved Self-Similarity and Domain-Dissimilarity for Person Re-identification
Weijian Deng, Liang Zheng, Qixiang Ye, Guoliang Kang, Yi Yang, and Jianbin Jiao
IEEE/CVF Conference on Computer Vision and Pattern Recognition (**CVPR**), 2018
- [8] Split to Learn: Gradient Split for Multi-Task Human Image Analysis
Weijian Deng, Yumin Suh, Xiang Yu, Masoud Faraki, Liang Zheng, Manmohan Chandraker
IEEE/CVF Winter Conference on Applications of Computer Vision (**WACV**), 2023
- [9] SVDNet for Pedestrian Retrieval
Yifan Sun, Liang Zheng, **Weijian Deng**, Shengjin Wang
IEEE/CVF International Conference on Computer Vision (**ICCV**), 2017
- [10] Ranking Models in Unlabeled New Environments
Xiaoxiao Sun, Yunzhong Hou, **Weijian Deng**, Hongdong Li, Liang Zheng
IEEE/CVF International Conference on Computer Vision (**ICCV**), 2021

Preprint Papers

- [11] Similarity-preserving Image-Image Domain Adaptation for Person Re-Identification
Weijian Deng, Liang Zheng, Qixiang Ye, Yi Yang, and Jianbin Jiao
arXiv preprint arXiv:1811.10551
- [12] Domain alignment with triplets
Weijian Deng, Liang Zheng, and Jianbin Jiao
arXiv preprint arXiv:1812.00893