

HONG LIU

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EDUCATION

Tsinghua University

Bachelor in Electronic Engineering

Beijing, China

August 2017 – June 2021

- GPA: 3.92/4.00 (rank 2/278);
- Selected awards: Nanxiang Jiang Scholarship (3 in 278 participants), National Scholarship (5 in 278 participants)
- Visiting student to Stanford

PUBLICATIONS

Conference publications

1. Hong Liu, Mingsheng Long, Jianmin Wang, Yu Wang
Learning to Adapt to Evolving Domains
Advances in Neural Information Processing Systems (NeurIPS), 2020
2. Hong Liu, Mingsheng Long, Jianmin Wang, Michael I. Jordan
Transferable Adversarial Training: A General Approach to Adapting Deep Classifiers
International Conference on Machine Learning (ICML), 2019
(Long Talk, 5% acceptance rate)
3. Hong Liu, Zhangjie Cao, Mingsheng Long, Jianmin Wang, Qiang Yang
Separate to Adapt: Open Set Domain Adaptation via Progressive Separation
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019

Preprints

1. Hong Liu, Jeff Z. HaoChen, Colin Wei, Tengyu Ma
Meta-learning Transferable Representations with a Single Target Domain
arxiv
2. Hong Liu, Mingsheng Long, Jianmin Wang, Michael I. Jordan
Towards Understanding the Transferability of Deep Feature Representations
arxiv1909.12031

RESEARCH EXPERIENCE

Tsinghua University

Research Assistant to Professor Mingsheng Long

June 2018 – Present

Transfer Learning under Weak Supervision

- ECCV Visual Domain Adaptation Challenge – 3rd
- Improve the algorithm in VisDA to solve open-set domain adaptation (Paper accepted by CVPR)
- Solve unsupervised domain adaptation with adversarial training (Paper accepted by ICML)

Stanford University

Research Assistant to Professor Tengyu Ma

Remote

May 2020 – Present

Transfer Learning Theories and algorithms

- Improve fine-tuning and joint training with a meta representation learning method
- Show that the proposed method provably works on a quadratic neural network
- Manuscript submitted to ICLR

Tsinghua University

Research Assistant to Professor Yu Wang

April 2020 – Present

Continual Domain Adaptation

- A novel evolving domain adaptation setting to address changing environments in applications
- Propose a meta-adaptation algorithm to solve evolving domain adaptation
- Paper accepted by NeurIPS

SELECTED AWARDS AND HONORS

- National Scholarship, awarded for academic excellence, 5 in 278 2020
- Nanxiang Jiang Scholarship, the best award for juniors in Tsinghua, 3 in 278 2019
- ECCV Visual Domain Adaptation Challenge, 3rd prize 2018
- China Undergraduate Physics Competition, 1st prize 2018
- China Math Olympiad, 2nd prize 2016

ADDITIONAL INFORMATION

Professional Services

Reviewing:

- Journal: TPAMI, and TIP
- Conference: ICML, NeurIPS, ICLR, and AAAI

Computer and Language Skill

- Python, C++, Matlab, Verilog, and Latex