HONG LIU

Department of Electronic Engineering
Tsinghua University, China
✉: h-l17@mails.tsinghua.edu.cn
Google Scholar: https://scholar.google.com/citations?user=BUc2uq0AAAAJ

EDUCATION

Tsinghua University Beijing, China
Bachelor in Electronic Engineering 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 Adapting 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 Remote
Research Assistant to Professor Tengyu Ma 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