

Dapeng Hu

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EDUCATION

National University of Singapore

Ph.D. in Signal Analysis & Machine Intelligence

Advisor: Xinchao Wang

Singapore

January 2019 – January 2023

Nanjing University

B. Sc. in Electronic Information Science and Technology

GPA: 4.47/5.00, Rank: 3/56

Nanjing, China

August 2013 – June 2017

PUBLICATIONS

UMAD: Universal Model Adaptation under Domain and Category Shift

Jian Liang*, **Dapeng Hu***, Jiashi Feng, Ran He

arXiv, 2021 [PDF]

DINE: Domain Adaptation from Single and Multiple Black-box Predictors

Jian Liang, **Dapeng Hu**, Jiashi Feng, Ran He

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2022 [PDF]

How Well Does Self-Supervised Pre-Training Perform with Streaming Data?

Dapeng Hu*, Shipeng Yan*, Qizhengqiu Lu, Lanqing Hong[†], Hailin Hu, Yifan Zhang, Zhenguo Li, Xinchao Wang[†], Jiashi Feng

International Conference on Learning Representations (ICLR), 2022 [PDF]

Adversarial Domain Adaptation With Prototype-Based Normalized Output Conditioner

Dapeng Hu, Jian Liang[†], Hanshu Yan, Qibin Hou, Yunpeng Chen

IEEE Transactions on Image Processing (TIP), 2021 [PDF]

Source Data-absent Unsupervised Domain Adaptation through Hypothesis Transfer and Labeling Transfer

Jian Liang, **Dapeng Hu**, Yunbo Wang, Ran He, Jiashi Feng

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2021 [PDF]

No Fear of Heterogeneity: Classifier Calibration for Federated Learning with Non-IID Data

Mi Luo, Fei Chen, **Dapeng Hu**, Yifan Zhang, Jian Liang, Jiashi Feng

Advances in Neural Information Processing Systems (NeurIPS), 2021 [PDF]

Unleashing the Power of Contrastive Self-Supervised Visual Models via Contrast-Regularized Fine-Tuning

Yifan Zhang, Bryan Hooi, **Dapeng Hu**, Jian Liang, Jiashi Feng

Advances in Neural Information Processing Systems (NeurIPS), 2021 [PDF]

Domain Adaptation with Auxiliary Target Domain-Oriented Classifier

Jian Liang, **Dapeng Hu**, Jiashi Feng

IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2021 [PDF]

Do We Really Need to Access the Source Data? Source Hypothesis Transfer for Unsupervised Domain Adaptation

Jian Liang, **Dapeng Hu**, Jiashi Feng

International Conference on Machine Learning (ICML), 2020 [PDF]

A Balanced and Uncertainty-aware Approach for Partial Domain Adaptation

Jian Liang, Yunbo Wang, **Dapeng Hu**, Ran He, Jiashi Feng

European Conference on Computer Vision (ECCV), 2020 [PDF]

EXPERIENCE

TikTok

Research Intern

Singapore

November 2021 – Present

- Developed efficient fine-tuning algorithms based on released self-supervised pre-trained models.

Huawei Noah's Ark Lab

Research Intern (Remote)

Singapore

October 2020 - March 2021

- Conducted the first thorough empirical study on practical continual self-supervised pre-training.
- The research paper has been accepted to *International Conference on Learning Representations, 2022*.

YITU Tech

Research Intern

Singapore

December 2019 - March 2020

- Developed a generic domain adaptation method for both image classification and segmentation.
- The research paper has been published in *IEEE Transactions on Image Processing, 2021*.

National University of Singapore

Research Engineer

Singapore

March 2018 - January 2019

- Co-organized the *MHP* challenge with *CVPR 2018 L.I.P* workshop. Mainly responsible for the homepage design and implementation of *MHP challenge* and evaluation of participants.
- Participated in *Google AI Open Images - Object Detection Track* and achieved 11th out of 452 teams.

Nanjing SkyData InfoTech Ltd.

Data Mining Engineer

Nanjing, China

July 2017 - March 2018

- Applied deep learning methods such as *U-Net* to medical image diagnosis in collaboration with hospitals.

PROFESSIONAL SERVICE

Reviewer

ICML 2021-2022, NeurIPS 2021-2022, CVPR 2022, ICLR 2022-2023, TMLR 2022

Teaching Assistant

NUS EE6934: Deep Learning (Advanced)

2020 Spring

NUS EE5934: Deep Learning

2020 Spring

NUS EE4704: Image Processing and Analysis

2019 Fall

NUS EE2028: Microcontroller Programming and Interfacing

2019 Fall

AWARDS & HONORS

ICML Outstanding Reviewers (Top 10%)

2022

NUS Research Scholarship

2019-2023

Outstanding Graduate of Nanjing University

2017

Yang Scholarship

2015

People's Scholarship

2014

Merit Student of Jiangsu Province

2013

TECHNICAL SKILLS

Programming Languages: Python, Java, C/C++, MATLAB, HTML/CSS, Bash

Tools and Frameworks:: L^AT_EX, Git, PyTorch, TensorFlow