YABIN ZHANG

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EDUCATION

The Hong Kong Polytechnic University   *Jan. 2021 - Aug. 2024 (Expected)*
Doctor's Degree in Computing, Supervised by Prof. Lei Zhang, IEEE Fellow

South China University of Technology   *Sept. 2017 - June. 2020*
Master's Degree in Signal and Information Processing, Supervised by Prof. Kui Jia   GPA: 3.80/4

South China University of Technology   *Sept. 2013 - June. 2017*
Bachelor's Degree in Information Engineering   GPA: 3.84/4

RESEARCH INTERESTS

· Open World Recognition, Out-of-distribution Detection and Generalization
· Machine Learning, Self-supervised Learning, Domain Adaptation and Generalization
· Vision-Language Models, Efficient Model Adaptation

RESEARCH EXPERIENCE

OPPO Research Center, ShenZhen   *May. 2023 - Now*
Research Intern
DAMO Academy, Alibaba Group, ShenZhen   *Jan. 2019 - Oct. 2021*
Research Intern
University of Macau   *July. 2018 - Oct. 2018*
Research Assistant

SELECTED PUBLICATIONS

Y. Zhang, B. Deng, H. Tang, L. Zhang, and K. Jia. Unsupervised Multi-class Domain Adaptation: Theory, Algorithms, and Practice. TPAMI, 2020, Codes

Y. Zhang, M. Li, R.Li, K. Jia, and L. Zhang. Exact Feature Distribution Matching for Arbitrary Style Transfer and Domain Generalization. CVPR, 2022 (**Oral**), Codes

Y. Zhang, B. Deng, Kui Jia, and Lei Zhang. Label Propagation with Augmented Anchors: A Simple Semi-supervised Learning Baseline for Unsupervised Domain Adaptation. ECCV, 2020 (**Spotlight**) Codes

Y. Zhang, W. Zhu, H. Tang, Z. Ma, K. Zhou, and L. Zhang. Dual Memory Networks: A Versatile Adaptation Approach for Vision-Language Models. CVPR, 2024, Codes

H. Zhang*, **Y. Zhang***, K. Jia, and L. Zhang. Unsupervised domain adaptation of black-box source models. BMVC2021, Codes

Y. Zhang, H. Tang, K. Jia, and M. Tan. Domain-Symmetric Networks for Adversarial Domain Adaptation. CVPR, 2019, Codes

Y. Zhang, K. Jia, and Z. Wang. Part-aware Fine-grained Object Categorization using Weakly Supervised Part Detection Network. TMM, 2019, Codes

Y. Zhang, H. Tang, and K. Jia. Fine-grained Visual Categorization using Meta-learning Optimization with Sample Selection of Auxiliary Data. ECCV, 2018, Codes

Y. Zhang, J. Lin, R. Li, K. Jia, and L. Zhang. Point-dae: Denoising autoencoders for self-supervised point cloud learning. Under review, [Codes](#)

Y. Zhang, W. Zhu, C. He, and L. Zhang. LAPT: Label-driven Automated Prompt Tuning for OOD Detection with Vision-Language Models. Under review

Y. Zhang, and L. Zhang. AdaNeg: Adaptive Negative Proxy Guided OOD Detection with Vision-Language Models. Under review

MENTORING EXPERIENCE

· **Mentored junior master's and PhD students**: Responsible for guiding 1 master's and 1 PhD students in academic topic selection, research method design, and paper writing.
· **Enhanced research quality and output**: My guidance helped improve research design, resulting in 1 collaborative paper published in BMVC and 1 under review.

TEACHING EXPERIENCE

· **Teaching assistant** of Human Computer Interaction, COMP3423, PolyU, 2021
· **Teaching assistant** of Introduction To Artificial Intelligence And Data Analytics, COMP1004, 2022
· **Teaching assistant** of Software Engineering and Development, COMP5241, 2022
· **Teaching assistant** of Introduction To Artificial Intelligence And Data Analytics, COMP1004, 2023
· **Teaching assistant** of Software Engineering and Development,, COMP5241, 2023

AWARDS

China National Scholarship   *2019*

National Scholarship for Encouragement   *2016*

INVITED TALKS

Arbitrary style transfer with exact feature distribution matching (In Chinese), [Website](#)

ACADEMIC ACTIVITIES

Conference Reviewer of CVPR, ICCV, ECCV, NIPS, ICML, ICLR, AAAI, SIGGRAPH

Journal Reviewer of IJCV, TIP, TNNLS, TMM, TMLR