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

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

2. **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

3. **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

4. **Y. Zhang**, W. Zhu, C. He, and L. Zhang. LAPT: Label-driven Automated Prompt Tuning for OOD Detection with Vision-Language Models. ECCV 2024

5. **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

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

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

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

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

10. **Y. Zhang**, J. Lin, R. Li, K. Jia, and L. Zhang. Point-dae: Denoising autoencoders for self-supervised point cloud learning. Under review, Codes

11. **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