Qihao Zhao

Seeking postdoctoral positions for Fall 2024/Spring 2025

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Research Interests

Image and Video Analysis, Self/Semi/Long-Tail Supervised Learning, Large Multi-modal Models, AIGC for 2D/3D

Education

Beijing University of Chemical Technology Jioned Study of Master and Doctoral Degree
Advisor: Fan Zhang, Wei Hu 09/2019-06/2024

Singapore University of Technology and Design Visiting Student
Advisor: Jun Liu 03/2023-03/2024

LiaoCheng University Bachelor 09/2013-06/2017

Work Experience

Microsoft Research Asia Research Assistant **06/2024-Now**

1. A Contamination-Free Multiple-Choice Question Benchmark for Large Language Models (Submit at ICLR2025, first author)
2. Deciphering Remote Sensing Images to Geological Maps Based on Diffusion Models (Prepare for CVPR2025, first author)

Publications (* Equal Contribution)

1. LTGC: Long-Tailed Recognition via Leveraging LLMs-driven Generated Content
   [CVPR 2024, Oral] Qihao Zhao*, Yalun Dai*, Wei Hu, Fan Zhang, Jun Liu
   A novel generative and tuning framework leveraging the knowledge of LLMs for long-tail recognition.
2. LTRL: Boosting Long-tail Recognition via Reflective Learning
   [ECCV 2024, Oral] Qihao Zhao*, Yalun Dai*, Shen Lin, Fan Zhang, Wei Hu, Jun Liu
   Reflective Learning, a plug-and-play method, boosts long-tail recognition by mimicking human thinking.
3. MDCS: More Diverse Experts with Consistency Self-Distillation for Long-Tailed Recognition
   [ICCV 2023] Qihao Zhao, Chen Jiang, Wei Hu, Fan Zhang, Jun Liu
   A novel long-tail learning method for maximizing recognition diversity
4. MixPro: Data Augmentation with MaskMix and Progressive Attention Labeling for Vision Transformer
   [ICLR 2023] Qihao Zhao, Yangyu Huang, Wei Hu, Fan Zhang, Jun Liu
   A data augmentation for ViTs considering global information mixture and label space re-weighting.
5. OHD: An Online Category-Aware Framework for Learning with Noisy Labels under Long-Tailed Distribution
   [IEEE T-CSVT, SCI Q1] **Qihao Zhao,** Fan Zhang, Wei Hu, Songhe Feng, Jun Liu,
   A novel framework to address the challenge of noisy labels under long-tailed distribution.
6. P-DIFF+: Improving Learning Classifier with Noisy Labels by Noisy Negative Learning Loss
   [Neural Networks, SCI Q1] **Qihao Zhao**, Wei Hu, Yangyu Huang, Fan Zhang
   A novel loss function ,which mining knowledge from noisy samples to improve the robustness of models.

Academic Services

Reviewer: NeurIPS, ICLR, T-CSVT, T-MM