ZHILI LIU (刘智立)

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EDUCATION

The Hong Kong University of Science and Technology   Hong Kong, China
Ph.D in *Computer Science*   Feb 2020 - now
Supervised by Prof. James T. Kwok

The Chinese University of Hong Kong   Hong Kong, China
M.Sc. in *Computer Science*   Sep 2018 - Jul 2019
Supervised by Prof. Bei Yu
GPA: 3.39/4.0

Tongji University   Shanghai, China
B.Eng. in *Software Engineering*   Sep 2014 - Jul 2018
GPA: 91.2/100
Ranking: 6/182 (overall)   1/32(Multimedia Science)

EXPERIENCE

Huawei Noah's Ark Lab   Hong Kong, China
Intern @ *AI theory Lab*, supervised by Prof. Zhenguo Li   Jun 2019 - Now

The Chinese University of Hong Kong   Hong Kong, China
Research Assistant, supervised by Prof. Bei Yu   Sep 2018 - May 2019

Microsoft Research Asia   Beijing, China
Intern @ *Intelligent Multimedia Group*, supervised by Dr. Chong Luo   Jan 2018 - Jul 2018

CCi Intelligence Co., Ltd   Shanghai, China
Research Intern   Jul 2017 - Jan 2018

SELECTED HONOURS

CUHK Entrance Scholarship & Distinguished Academic Performance Scholarship (top 3%)   2019/2018

Shanghai Outstanding Graduates, Shanghai (Top 5%)   2018

Scholarship for Outstanding Student, Tongji University (Top 5%)   2017/2016/2015

PUBLICATIONS

Interest: Mixture of Experts, Model Reasoning & Safety, Multi-modal Large Language Model.

Kai Chen*, Yunhao Gou*, Runhui Huang*, **Zhili Liu***, Daxin Tan*, Jing Xu, Chunwei Wang, Yi Zhu, Yihan Zeng, Kuo Yang, Dingdong Wang, Kun Xiang, Haoyuan Li, Haoli Bai, Jianhua Han, Xiaohui Li, Weike Jin, Nian Xie, Yu Zhang, James T. Kwok, Hengshuang Zhao, Xiaodan Liang, Dit-Yan Yeung, Xiao Chen, Zhenguo Li, Wei Zhang, Qun Liu, Jun Yao, Lanqing Hong, Lu Hou, Hang Xu. *EMOVA: Empowering Language Models to See, Hear and Speak with Vivid Emotions*, CVPR 2025

Yue Jiang, Haokun Lin, Yang Bai, Bo Peng, **Zhili Liu**, Yueming Lyu, Yong Yang, Jing Dong. *Image-level Memorization Detection via Inversion-based Inference Perturbation*, ICLR 2025

Pengxiang Li*, Kai Chen*, **Zhili Liu***, Lanqing Hong, Yunzhi Zhuge, Dit-Yan Yeung, Huchuan Lu, Xu Jia, *TrackDiffusion: Tracklet-Conditioned Video Generation via Diffusion Models*, WACV 2025

Zhili Liu, Kai Chen, Yifan Zhang, Jianhua Han, Lanqing Hong, Hang Xu, Zhenguo Li, Dit-Yan Yeung, James Kwok. *Implicit Concept Removal of Diffusion Models*, ECCV 2024

Yunhao Gou*, Kai Chen*, **Zhili Liu***, Lanqing Hong, Hang Xu, Zhenguo Li, Dit-Yan Yeung, James Kwok, Yu Zhang. *Eyes Closed, Safety On: Protecting Multimodal LLMs via Image-to-Text Transformation*, ECCV 2024

Haochen Tan, Zhijiang Guo, Zhan Shi, Lu Xu, **Zhili Liu**, Yunlong Feng, Xiaoguang Li, Yasheng Wang, Lifeng Shang, Qun Liu, Linqi Song. *PROXYQA: An Alternative Framework for Evaluating Long-Form Text Generation with Large Language Models*, ACL 2024.

Haokun Lin, Haoli Bai, **Zhili Liu**, Lu Hou, Muyi Sun, Linqi Song, Ying Wei, Zhenan Sun. *MoPE-CLIP: Structured Pruning for Efficient Vision-Language Models with Module-wise Pruning Error Metric*, CVPR 2024.

Enze Xie, Lewei Yao, Han Shi, **Zhili Liu**, Daquan Zhou, Zhaoqiang Liu, Jiawei Li, Zhenguo Li. *DiffFit: Unlocking Transferability of Large Diffusion Models via Simple Parameter-Efficient Fine-Tuning*, ICCV 2023 Oral.

Tianyang Hu, **Zhili Liu**, Fengwei Zhou, Wenjia Wang, Weiran Huang. *Your contrastive learning is secretly doing stochastic neighbor embedding*, ICLR 2023.

Zhili Liu, Kai Chen, Jianhua Han, Lanqing Hong, Hang Xu, Zhenguo Li, James Kwok. *Task-customized Masked Autoencoder via Mixture of Cluster-conditional Experts*, ICLR 2023 Spotlight.

Kai Chen*, **Zhili Liu***, Lanqing Hong, Hang Xu, Zhenguo Li, Dit-Yan Yeung. *Mixed autoencoder for self-supervised visual representation learning*, CVPR 2023.

Zhili Liu, Jianhua Han, Kai Chen, Lanqing Hong, Hang Xu, Chunjing Xu, Zhenguo Li. *Task-Customized Self-Supervised Pre-training with Scalable Dynamic Routing*, AAAI 2022.

Zhili Liu*, Qijun Luo*, Lanqing Hong, Chongxuan Li, Kuo Yang, Liyuan Wang, Fengwei Zhou, Guilin Li, Zhenguo Li, Jun Zhu. *Relaxed conditional image transfer for semi-supervised domain adaptation*, arXiv:2101.01400 (2021)

Linpu Fang, Hang Xu, **Zhili Liu**, Sarah Parisot, Zhenguo Li. *EHSOD: CAM-Guided End-to-end Hybrid-Supervised Object Detection with Cascade Refinement*, AAAI 2020

(* indicates equal contribution)