

# ZHILI LIU (刘智立)

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## EDUCATION

<b>The Hong Kong University of Science and Technology</b>	Hong Kong, China
Ph.D in <i>Computer Science</i>	Feb 2020 - now
Supervised by Prof. James T. Kwok	
<b>The Chinese University of Hong Kong</b>	Hong Kong, China
M.Sc. in <i>Computer Science</i>	Sep 2018 - Jul 2019
Supervised by Prof. Bei Yu	
GPA: 3.39/4.0	
<b>Tongji University</b>	Shanghai, China
B.Eng. in <i>Software Engineering</i>	Sep 2014 - Jul 2018
GPA: 91.2/100	
Ranking: 6/182 (overall) 1/32(Multimedia Science)	

## EXPERIENCE

<b>Huawei Noah's Ark Lab</b>	Hong Kong, China
Intern @ <i>AI theory Lab</i> , supervised by Prof. Zhenguo Li	Jun 2019 - Now
<b>The Chinese University of Hong Kong</b>	Hong Kong, China
Research Assistant, supervised by Prof. Bei Yu	Sep 2018 - May 2019
<b>Microsoft Research Asia</b>	Beijing, China
Intern @ <i>Intelligent Multimedia Group</i> , supervised by Dr. Chong Luo	Jan 2018 - Jul 2018
<b>CCi Intelligence Co., Ltd</b>	Shanghai, China
Research Intern	Jul 2017 - Jan 2018

## SELECTED PUBLICATIONS

Full publication list on my [Google Scholar](#). (\* denotes equal contribution)

### I. Multi-modal Foundation Models

- [1] **EMOVA: Empowering Language Models to See, Hear and Speak with Vivid Emotions** CVPR 2025  
Kai Chen\*, Yunhao Gou\*, Runhui Huang\*, **Zhili Liu\***, Dixin Tan\*, and other 26 authors
- [2] **Corrupted but Not Broken: Understanding and Mitigating the Negative Impacts of Corrupted Data in Visual Instruction Tuning** EMNLP 2025 Oral  
Yunhao Gou, Hansi Yang, **Zhili Liu**, Kai Chen, Yihan Zeng, Lanqing Hong, Zhenguo Li, Qun Liu, Bo Han, James Kwok, Yu Zhang

### II. Multi-modal Foundation Models - Mixture of Cluster-conditional Experts

- [3] **Mixture of Cluster-conditional LoRA Experts for Vision-language Instruction Tuning** TIP 2025  
Yunhao Gou\*, **Zhili Liu\***, Kai Chen\*, Lanqing Hong, Hang Xu, Aoxue Li, Dit-Yan Yeung, James T. Kwok, Yu Zhang

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

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

### III. Multi-modal Foundation Models - Model Safety & Reasoning

[6] Mixture of insightful Experts (MoTE): The Synergy of Thought Chains and Expert Mixtures in Self-Alignment ACL 2025

**Zhili Liu\***, Yunhao Gou\*, Kai Chen\*, Lanqing Hong, Jiahui Gao, Fei Mi, Yu Zhang, Zhenguo Li, Xin Jiang, Qun Liu, James T. Kwok

[7] Perceptual Decoupling for Scalable Multi-modal Reasoning via Reward-Optimized Captioning ArXiv 2025

Yunhao Gou\*, Kai Chen\*, **Zhili Liu\***, Lanqing Hong, Xin Jin, Zhenguo Li, James T. Kwok, Yu Zhang

[8] Implicit Concept Removal of Diffusion Models ECCV 2024

**Zhili Liu**, Kai Chen, Yifan Zhang, Jianhua Han, Lanqing Hong, Hang Xu, Zhenguo Li, Dit-Yan Yeung, James Kwok

[9] Eyes Closed, Safety On: Protecting Multimodal LLMs via Image-to-Text Transformation ECCV 2024

Yunhao Gou\*, Kai Chen\*, **Zhili Liu\***, Lanqing Hong, Hang Xu, Zhenguo Li, Dit-Yan Yeung, James Kwok, Yu Zhang

### IV. Model Efficiency

[10] MoPE-CLIP: Structured Pruning for Efficient Vision-Language Models with Module-wise Pruning Error Metric CVPR 2024

Haokun Lin, Haoli Bai, **Zhili Liu**, Lu Hou, Muyi Sun, Linqi Song, Ying Wei, Zhenan Sun

[11] DiffFit: Unlocking Transferability of Large Diffusion Models via Simple Parameter-Efficient Fine-Tuning ICCV 2023 **Oral**

Enze Xie, Lewei Yao, Han Shi, **Zhili Liu**, Daquan Zhou, Zhaoqiang Liu, Jiawei Li, Zhenguo Li

## PATENT

[CN112633385A] **Zhili Liu**, Qijun Luo, Lanqing Hong, Chongxuan Li, Jun Zhu, Zhenguo Li. *Relaxed conditional image transfer for semi-supervised domain adaptation*, Published at Apr 8th, 2025

[CN111291809A] Hang Xu, **Zhili Liu**, Fengwei Zhou, Jiawei Li, Xiaodan Liang, Zhenguo Li, Li Qian *EHSOD: CAM-Guided End-to-end Hybrid-Supervised Object Detection with Cascade Refinement*, Published at Apr 12th, 2024

## 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

## ACADEMIC SERVICES

### Conference Reviewer

ICLR, ICML, NeurIPS, CVPR, ICCV, ECCV, AAAI, IJCAI

### Journal Reviewer

TPAMI, TIP, TNNLS, AIJ