

Qingtao Pan

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RESEARCH SUMMARY

• Vision-Language Models (VLM):

- *Efficiency*: [FMVR](#) (CVPR Findings'26), [DiCoPruner](#) (NeurIPS'26 Under Review), [AOSS](#) (NeurIPS'26 Under Review)
- *Pretraining*: [DuSSS](#) (AAAI'25), [AMVLM](#) (IEEE TMI'25), [CPS⁴](#) (MICCAI'26 Under Review)
- *Trustworthy*: [EviVLM](#) (IEEE TMI'25)

• LLM:

- *LLM Reasoning*: [PTA-GRPO](#) (ICML'26)
- *Trustworthy*: [CFC](#) (CVPR'26)

• Diffusion Model:

- *Text-to-Image Generation*: [ELDiff](#) (ECCV'26 Under Review)

EDUCATION

Case Western Reserve University, Cleveland

Ph.D. Student in Computer Science

Sept 2025 – Present

Shandong University, Jinan

Master of Control Science and Engineering

Sept 2022 – June 2025

Henan Polytechnic University, Jiaozuo

Bachelor of Automation

Sept 2018 – June 2022

PUBLICATIONS

- [1] **Qingtao Pan**, Zhihao Dou, Shuo Li[†], “*Frequency-Modulated Visual Restoration for Matryoshka Large Multi-modal Models*”, **CVPR Findings 2026**. [[Link](#)]
- [2] **Qingtao Pan**, Wenhao Qiao, Jingjiao Lou, Bing Ji[†], Shuo Li, “*DuSSS: Dual Semantic Similarity-Supervised Vision-Language Model for Semi-Supervised Medical Image Segmentation*”, **AAAI 2025**. [[Link](#)]
- [3] **Qingtao Pan**, Zhengrong Li, Jingjiao Lou, Guang Yang, Qing Yang, Bing Ji[†], “*EviVLM: When Evidential Learning Meets Vision Language Model for Medical Image Segmentation*”, **IEEE TMI 2025**. [[Link](#)]
- [4] **Qingtao Pan**, Zhengrong Li, Wenhao Qiao, Jingjiao Lou, Qing Yang, Guang Yang, Bing Ji[†], “*AMVLM: Alignment-Multiplicity Aware Vision-Language Model for Semi-Supervised Medical Image Segmentation*”, **IEEE TMI 2025**. [[Link](#)]
- [5] **Qingtao Pan**, Hao Wang, Jingjiao Lou, Yuyan Zhang, Bing Ji[†], Shuo Li, “*Long-short-view aware multi-agent reinforcement learning for signal snippet distillation in delirium movement detection*”, **Information Sciences**. [[Link](#)]
- [6] Kai Ye, **Qingtao Pan**, Shuo Li[†], “*Conditional Factuality Controlled LLMs with Generalization Certificates via Conformal Sampling*”, **CVPR 2026**. [[Link](#)]
- [7] Jingxing Zhong*, **Qingtao Pan*** (Equal Contribution), Xuchang Zhou[†], Xinguo Zhuang[†], “*Evidential learning driven breast tumor segmentation with stage-divided vision-language interaction*”, **Neurocomputing**. [[Link](#)]
- [8] Jingjiao Lou, **Qingtao Pan**, Qing Yang, Bing Ji[†], “*PCR-MIL: Phenotype Clustering Reinforced Multiple Instance Learning for Whole Slide Image Classification*”, **MICCAI 2025**. [[Link](#)]

[9] Zhihao Dou, Qinjian Zhao, Zhongwei Wan, Dinggen Zhang, Weida Wang, Towsif Raiyan, Benteng Chen, **Qingtao Pan**, Yang Ouyang, Zhiqiang Gao, Shufei Zhang, Sumon Biswas[†], “*Plan Then Action:High-Level Planning Guidance Reinforcement Learning for LLM Reasoning*”, **ICML 2026**. [[Link](#)]

AWARDS

Outstanding Graduate of Shandong University	2025
National Scholarship (Graduate)	2024
National Endeavor Fellowship (Undergraduate)	2022
National Endeavor Fellowship (Undergraduate)	2019

SERVICE

Conference Reviewer: ICML, NeurIPS, MICCAI

Journal Reviewer: Information Fusion, Pattern Recognition, Biomedical Signal Processing and Control, iScience, Applied Soft Computing