Miaoge Li

Education

- **Ph.D.**, *2024 – present*
  The Hong Kong Polytechnic University; Hong Kong
  PhD Candidate (Full-time), Department of Computing
- **M.Phil.**, *2020 – 2023*
  Xidian University, China
  Major in Information and Communication Engineering
- **B.Eng.**, *2016 – 2020*
  Xidian University, China
  Major in Information Countermeasure Technology

Research Interests

- **Efficient Machine Learning & Conditional Transport**
  Developing optimization algorithms and lightweight architectures for efficient machine learning; applying Conditional Transport theory to enhance domain adaptation.

Publications

- **SG-LoRA: Semantic-guided LoRA Parameters Generation**, *CVPR 2026*
  ***M. Li**, Y. Chen, Z. Rao, C. Jiang, K. Wei, J. Guo*
  Introduces a semantic-guided method for generating Low-Rank Adaptation (LoRA) parameters efficiently.
- **STiTch: Semantic Transition and Transportation in Collaboration for Training-Free Zero-Shot Composed Image Retrieval**, *CVPR 2026*
  ***M. Li**, D. Wang, Z. Sun, J. Zhang, W. Luo, J. Guo*
  Proposes a training-free framework utilizing semantic transport for composed image retrieval.
- **Learning by Neighbor-Aware Semantics, Deciding by Open-form Flows: Towards Robust Zero-Shot Skeleton Action Recognition**, *CVPR Findings 2026*
  *Y. Chen, **M. Li**, Z. Rao, D. Zeng, S. Guo, J. Guo*
  Explores neighbor-aware semantics, and open-form flows to improve skeleton action recognition.
- **STAR++: Region-aware Conditional Semantics via Interpretable Side Information for Zero-Shot Skeleton Action Recognition**, *CVPR Findings 2026*
  *Y. Chen, J. Guo, **M. Li**, Z. Rao, S. Guo*
  Develops a fine-grained, conditional alignment framework for skeleton action recognition.
- **TsCA: On the Semantic Consistency Alignment via Conditional Transport for Compositional Zero-Shot Learning**, *IJCAI 2025*
  ***M. Li**, J. Guo, R. Y. D. Xu, D. Wang, X. Cao, Z. Rao, S. Guo*
  Utilizes Conditional Transport to align semantic consistency for compositional zero-shot learning.

- **Exploring Transferable Homogeneous Groups for Compositional Zero-Shot Learning**, *IJCAI 2025*
  *Z. Rao, J. Guo,**M. Li**, Y. Chen, M. Wang*
  Investigates transferable homogeneous groups to enhance compositional zero-shot learning.
- **Dynamic Multimodal Prototype Learning in Vision-Language Models**, *ICCV 2025*
  *X. Zhu, S. Wang, B. Zhu, **M. Li**, Y. Li, J. Fang, Z. Wang, D. Wang, H. Zhang*
  Proposes a training-free multimodal prototype learning framework for vision-language models
- **Instruction tuning-free visual token complement for multimodal llms**, *ECCV 2024*
  *D. Wang, J. Cui, **M. Li**, W. Lin, B. Chen, H. Zhang*
  Develops an instruction tuning-free framework to learn complementary visual tokens for multimodal LLMs.
- **Tuning Multi-mode Token-level Prompt Alignment across Modalities**, *NeurIPS 2023*
  *D. Wang, **M. Li**, X. Liu, M. Xu, B. Chen*
  Presents a multi-mode token-level prompt alignment approach for cross-modal learning.
- **PatchCT: Aligning Patch Set and Label Set with Conditional Transport for Multi-Label Image Classification**, *ICCV 2023*
  ***M. Li**, D. Wang, X. Liu, Z. Zeng, R. Lu, B. Chen*
  Aligns patch and label sets using Conditional Transport for improved multi-label classification.
- **Patch-Prompt Aligned Bayesian Prompt Tuning for Vision-Language Models**, *UAI 2024*
  *X. Liu, D. Wang, B. Fang, **M. Li**, Y. Xu, Z. Duan, B. Chen, M. Zhou*
  Develops a Bayesian prompt learning method aligning patch tokens for vision-language models.
- **Knowledge-Aware Bayesian Deep Topic Model**, *NeurIPS 2022*
  *D. Wang, Y. Xu, **M. Li**, Z. Duan, C. Wang, B. Chen*
  Introduces a knowledge-aware Bayesian deep topic modeling framework.

Research Services

- **Conference Reviewer**
  ICLR (2025/2026); NeurIPS (2025/2026); CVPR (2024/2025/2026); ICCV (2025); AAAI (2025); ICML (2024/2025/2026); UAI (2026)
- **Outstanding Reviewer**, *ACM MM (2024/2026)*
  Recognized for high-quality reviews and contributions to the conference.
- **Journal Reviewer**
  IEEE Open Journal of the Computer Society (IEEE OJ-CS); IEEE Transactions on Multimedia (IEEE TMM)

Awards & Honors

- **Special Prize, 13th Postgraduate English Speech Contest (Shaanxi Province Grand Final)**, *2020*
  Provincial-level English speech competition for postgraduates.
- **First Prize, 11th Chinese College Student Mathematics Competition**,
  National mathematics competition for undergraduate and graduate students.
- **Academic Scholarship of Xidian University**, *2016 – 2022*
  Merit-based scholarship awarded consistently during undergraduate and graduate studies.