MO YUNXIANG

15810767037 (Mainland) 84035106 (HK)
ymoaj@connect.ust.hk 2556377578@qq.com
moyunxiang.com Google Scholar

EDUCATION

The Hong Kong University of Science and Technology Sep 2024 – Present
BSc, Double Major in Computer Science & Mathematics; Extended Major in Artificial Intelligence
GPA: 4.03 / 4.3
Honors:

- **University's Scholarship Scheme for Continuing Undergraduate Students** (Top 1%), 2024, 2025
- **S.S. Chern Class** – *Honor for top academic performance across all mathematics coursework.*
- **Dean's List Honor** (GPA above 3.7), 2024, 2025

Relevant Coursework: Algorithms, Statistical Inference, Machine Learning, Linear Algebra, Probability Theory *(A+ in all CS/Math courses)*

RESEARCH EXPERIENCE

First-author paper, ACL 2026 Main Conference (accepted; AC meta-review 9/10, oral pending) [OpenReview]
"DixitWorld: Evaluating Multimodal Abductive Reasoning in Vision-Language Models with Multi-Agent Dixit Gameplay"
Yunxiang Mo, Tianshi Zheng, Qing Zong, Jiayu Liu, Baixuan Xu, Yauwai Yim, Chunkit Chan, Jiaxin Bai, Yangqiu Song. Advisor: Prof. Yangqiu Song.

- Extended version of our EMNLP 2025 Workshop paper (below); adds a Medium difficulty tier (252 vs. 168 QA items), 72B-parameter scaling ablation, and calibration/sensitivity analyses

First-author paper, EMNLP 2025 Workshop (Spotlight) [arXiv]
"DixitWorld: Evaluating Multimodal Abductive Reasoning in Vision-Language Models with Multi-Agent Dixit Gameplay"
Yunxiang Mo, Tianshi Zheng, et al., Yangqiu Song.

- Proposed DixitArena (Dixit-inspired multi-agent environment) and DixitBench (static QA benchmark) to evaluate multimodal abductive reasoning in vision-language models
- Identified a structural storyteller–listener asymmetry: small open-source models excel at creative clue generation, while large proprietary models excel at hypothesis selection
- Implementation in PyTorch with Transformer-based multimodal architectures

Co-author paper, ICLR 2026 (Oral) [arXiv]
"ScaleCUA: Scaling Open-Source Computer Use Agents with Cross-Platform Data"
Zhaoyang Liu, Jingjing Xie, ..., Yunxiang Mo, ..., Wenhai Wang. *Contribution: data pipeline and cross-platform workflow components in the open-source codebase.*

INTERNSHIP EXPERIENCE

Beijing Ingenic Semiconductor Co., Ltd. Jun 2025 – Aug 2025
Machine Learning Engineer Intern

- Developed and optimized machine learning models for embedded and on-chip AI scenarios
- Participated in model training, evaluation, and inference pipeline development using PyTorch
- Assisted in deploying ML models to edge devices with constraints on latency and memory
- Collaborated with algorithm and hardware teams to align model design with chip-level constraints

Benchmark Architectural Design Co., Ltd Jan 2025

- Developed front-end modules using the MFC framework for a mini-program project
- Implemented UI design, event handling, and system debugging in a team environment

TECHNICAL SKILLS

Machine Learning & NLP: Transformer Architectures, Multimodal Reasoning, Abductive Inference, Prompt Engineering, Fine-tuning

Frameworks & Tools: PyTorch, Hugging Face Transformers, OpenAI API
Programming Languages: Python, C++, MATLAB
Languages: Chinese (Native), English (Fluent)

COMPETITIONS

- National Mathematical Olympiad (China) – Second Prize, 2023
- National Informatics Competition (China) – Second Prize, 2022