Junxian Ma

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Education Background

Tsinghua University / Bachelor of Computer Science and Technology

2024.09-2028.06(Expected)

Research Interests

- **Multimodal Large Language Models**: Efficient video/image understanding, long-context visual reasoning, and token compression for multimodal inputs
- **Reinforcement Learning for LLMs:** Alignment techniques, reward modeling, and improving reasoning capabilities of language models
- **AI Systems & Infrastructure**: Distributed training optimization, high-performance inference, and efficient training frameworks for large-scale models

Research Experience

Quicksviewer Multimodal LLM Project Development *2025.02-2025.08*

Research Participant, Academic Rising Stars Program, Department of Computer Science, Tsinghua University

- Participated in the development of Quicksviewer, a multimodal large language model capable of processing and understanding both textual and visual information simultaneously.
- Contributed to dataset preprocessing pipeline and encoder alignment optimization to improve model performance on visual question answering tasks.
- Participated in regular research seminars and presented progress updates, developing skills in academic communication and research methodology under the mentorship of faculty members.

AI algorithm Internship *2025.10-2026.02*

Intern, Zhipu AI Technology Co., Ltd., Beijing, China

- Contributed to multimodal alignment research, focusing on improving cross-modal consistency between visual and textual representations.
- Designed and maintained data processing pipelines for large-scale multimodal datasets, including data cleaning, filtering, and quality control.
- Investigated efficient understanding of long-form videos, exploring approaches to reduce computational overhead while preserving temporal and semantic information.

Programs

Open-Cowork | Open-Source Desktop AI Agent | github.com/OpenCoworkAI/open-cowork

- Contributed to frontend development and maintenance of an open-source desktop AI agent application built with Electron, React, and TypeScript, supporting Windows and macOS.
- Maintained and extended the Skills system, supporting AI-driven document generation and WeChat integration workflows.

Awards

- Freshman First-Class Scholarship, *Tsinghua University, 2024.09*
- Student Work Scholarship, *Tsinghua University, 2025.09*