

Maojia Song

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EDUCATION

Nanyang Technological University

01/2026 – Present

Visiting Student

Advisor: Soujanya Poria

Singapore University of Technology and Design

01/2024 – Present

Ph.D., Information Systems Technology and Design

Advisor: Soujanya Poria

Co-Advisor: Dorien Herremans

University of Leeds

09/2019 – 08/2023

B.Eng., Electronic and Electrical Engineering

Rank: 1st in the department

First-Class Honours

WORK EXPERIENCE

Research Intern

06/2025 – 11/2025

Tongyi Lab, Alibaba Cloud

Supervisor: Jiang Yong & Xinyu Wang

Research Officer

09/2023 – 12/2023

DeCLaRe Lab, Singapore University of Technology and Design

Supervisor: Soujanya Poria

HONORS & AWARDS

Google Gemini Research Access Grant

2025

AI Singapore PhD Fellowship

2025

OpenAI Researcher Access Program Grant

2024

Doctoral Research Scholarship granted by MOE, Singapore

2024

Best Undergraduate Thesis Finalist by EEE, University of Leeds

2023

PUBLICATIONS (* denotes equal contributions)

- [15] Ruiwen Zhou*, **Maojia Song***, Xiaobao Wu, Sitao Cheng, Xunjian Yin, Yuxi Xie, Zoey Hao, Wenyue Hua, Liangming Pan, Soujanya Poria, Min-Yen Kan. “Epistemic Context Learning: Building Trust the Right Way in LLM-Based Multi-Agent Systems.” *arXiv preprint*. 2026.

Submitted to ICML 2026.

Under Review

- [14] Yuhao Wu*, **Maojia Song***, Yihuai Lan*, Zhiqiang Hu, Heng Zhou, Weihua Zheng, Yao Xiao, Dylan Raharja, Lei Wang, Soujanya Poria, Roy Ka-Wei Lee. “From Perception to Action: An Interactive Benchmark for Vision Reasoning.” *arXiv preprint*. 2026.

Submitted to ICML 2026.

Under Review

- [13] “Rethinking Long-Horizon Agentic Search: Efficiency and Generalization in Deep Research Agents.” *arXiv preprint*. 2026.

- [12] Sinuo Wang, WANG PIAOHONG, Tianrui Qin, **Maojia Song**, et al. “EVOLVING ROLLOUTS: Harnessing Historical Experience for Web Agent Evolution in Reinforcement Learning.” *arXiv preprint*. 2026.

Submitted to ICML 2026.

Under Review

- [11] JinCheng Ren, Boyu Feng, Jinxiang Xia, **Maojia Song**, Guibin Zhang, He Zhu, Jiaheng Liu, Jian Yang, Wei Wang, Wangchunshu Zhou. “Scaling Long-Horizon Agency through Controllable and Diverse Programmatic Environment Synthesis.” *arXiv preprint*. 2026.

Submitted to ICML 2026.

Under Review

- [10] Jiayi Zhang, Jinyu Xiang, Yiran Peng, Zhiguang Han, **Maojia Song**, Cheng Yang, Zhaoyang Yu, Yuquan Lu, Bang Liu, Chenglin Wu, Yuyu Luo. “AEvo: Evolving Agent Learning Procedures from Experience.” *arXiv preprint*. 2026.

Submitted to ICML 2026.

Under Review

- [9] Jiayi Zhang, Yiran Peng, Fanqi Kong, Yifan Wu, Zhaoyang Yu, Jinyu Xiang, Jianhao RUAN, Yingchao Li, **Maojia Song**, Bang Liu, Chenglin Wu, Yuyu Luo. “AEnv: Scaling Executable Agentic Environments Automatically.” *arXiv preprint*. 2025.

Submitted to ICML 2026.

Under Review

- [8] “Tongyi DeepResearch Technical Report.” *arXiv preprint*. 2025.
- [7] **Maojia Song**, Renhang Liu, Xinyu Wang, Yong Jiang, Pengjun Xie, Fei Huang, Soujanya Poria, Jingren Zhou. “Demystifying Deep Search: A Holistic Evaluation with Hint-free Multi-Hop Questions and Factorised Metrics.” In: *Proceedings of ICLR*. 2026.
- [6] Yida Zhao, Kuan Li, Xixi Wu, Liwen Zhang, DingChu Zhang, Baixuan Li, **Maojia Song**, Zhuo Chen, Chenxi Wang, Xinyu Wang, Yong Jiang, Kewei Tu, Pengjun Xie, Fei Huang, Jingren Zhou. “Repurposing Synthetic Data for Fine-grained Search Agent Supervision.” In: *Proceedings of ICLR*. 2026.
- [5] Liangcai Su*, Zhen Zhang*, Guangyu Li*, Zhuo Chen*, Chenxi Wang*, **Maojia Song***, Xinyu Wang*, et al. “Scaling Agents via Continual Pre-training.” In: *Proceedings of ICLR*. 2026.
- [4] **Maojia Song**, Tej Deep Pala, Amir Zadeh, Chuan Li, Soujanya Poria. “LLMs Can’t Handle Peer Pressure: Crumbling under Multi-Agent Social Interactions.” In: *Proceedings of ICLR*. 2026.
- [3] Weisheng Jin, **Maojia Song**, Tej Deep Pala, Yew Ken Chia, Amir Zadeh, Chuan Li, Soujanya Poria. “PromptDistill: Query-based Selective Token Retention in Intermediate Layers for Efficient Large Language Model Inference.” *arXiv preprint*. 2025.
- Submitted to IJCAI 2026.**
- Under Review**
- [2] Yew Ken Chia, Liying Cheng, Hou Pong Chan, **Maojia Song**, Chaoqun Liu, Mahani Aljunied, Soujanya Poria, Lidong Bing. “M-Longdoc: A Benchmark for Multimodal Super-Long Document Understanding and a Retrieval-Aware Tuning Framework.” In: *Proceedings of EMNLP*. 2025.
- [1] **Maojia Song**, Shang Hong Sim, Rishabh Bhardwaj, Hai Leong Chieu, Navonil Majumder, Soujanya Poria. “Measuring and Enhancing Trustworthiness of LLMs in RAG through Grounded Attributions and Learning to Refuse.” In: *Proceedings of ICLR*. 2025.

Oral

INVITED TALKS

APSIPA ASC 2025 <i>3MT Competition</i>	10/2025
A*STAR CFAR RAG & DeepResearch <i>A*STAR Centre for Frontier AI Research</i>	07/2025
SIRION Research Integrity Conference 2025 <i>Singapore Institutional Research Integrity Offices Network</i>	05/2025
SSNLP 2024 <i>Singapore Symposium on Natural Language Processing</i>	11/2024

TEACHING

Teaching assistant

- 50.045 Information Retrieval
Instructor: Soujanya Poria

Fall 2024

- 50.006 User Interface Design and Implementation
Instructor: Simon Perrault

Fall 2024

PROFESSIONAL SERVICES

Reviewer

- ICLR 2025
- ACL 2025
- EMNLP 2025
- AAAI-EAIM 2026
- ICLR 2026
- ICML 2026

Volunteer

- EMNLP 2025
- APSIPA ASC 2025