

Ming Wang

Ph.D. Candidate in Artificial Intelligence

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SUMMARY

PhD candidate at Northeastern University, where Professor Daling Wang supervises him. Associate Professor Shi Feng and Lecturer Yifei Zhang are also his supervisors. The main research interests are *AI for Psychology and Mental Health*, the *Safety and Interpretability of AI*. He is now working on **Automatic Prompt Optimization & Generation** and **LLM-based Generative Agents**.

Education

Ph.D. / Sep 2022 - Present

Computer Science

Northeastern University - Shenyang, China

Highlights

- Awarded the title of Outstanding Graduate Student.
- Won second prize in the Language and Intelligence Competition.

M.S. / Sep 2020 - June 2022

Computer Science

Northeastern University - Shenyang, China

Highlights

- Awarded the first academic scholarship.

B.S. / Sep 2016 - June 2020

Computer Science

Harbin Engineering University - Harbin, China

Highlights

- Awarded first and second prizes for academic scholarships.
- Member of the Jungong Excellence Class.

Publications

Minstrel: Structural Prompt Generation with Multi-Agents Coordination for Non-AI Experts

Ming Wang, Yuanzhong Liu, Xiaoyu Liang, Yijie Huang, Daling Wang, et al., *arXiv*, 2024.

T-COL: generating counterfactual explanations for general user preferences on variable machine learning systems

Ming Wang, Daling Wang, Wenfang Wu, Shi Feng, Yifei Zhang, *arXiv*, 2023.

Generative Link Tree: A Counterfactual Explanation Generation Approach with High Data Fidelity

Ming Wang, Wenfang Wu, Daling Wang, Shi Feng, Yifei Zhang, *Computer Science*, 2022.

FEEL: a framework for evaluating emotional support capability with large language models

Huaiwen Zhang, Yu Chen, Ming Wang, Shi Feng, *International Conference on Intelligent Computing*, 2024.

LLM-Based Empathetic Response Through Psychologist-Agent Debate

Yijie Wu, Shi Feng, Ming Wang, Daling Wang, Yifei Zhang, *Asia-Pacific Web (APWeb) and Web-Age Information Management (WAIM) Joint International Conference on Web and Big Data*, 2024.

Is mamba effective for time series forecasting?

Zihan Wang, Fanheng Kong, Shi Feng, Ming Wang, Xiaocui Yang, et al., *arXiv*, 2024.

MM-InstructEval: Zero-Shot Evaluation of (Multi-modal) Large Language Models on Multimodal Reasoning Tasks

Xiaocui Yang, Wenfang Wu, Shi Feng, Ming Wang, Daling Wang, et al., *arXiv*, 2024.

Hierarchical Retrieval-Augmented Generation Model with Rethink for Multi-hop Question Answering

Xiaoming Zhang, Ming Wang, Xiaocui Yang, Daling Wang, Shi Feng, Yifei Zhang, *arXiv*, 2024.

Exchanges & Internships

Co-Builder / Jul 2023 - Present

LangGPT Community, Online

The first author of the paper, hosting the design and development of Minstrel, a structural prompt generation tool.

Lecturer / June 2024 - Sep 2024

InternLM Camp, Online

Lecture on theoretical and practical contents related to prompt engineering and design of InternLM based Who is the Spy game.

Summer Student / Oct 2023

iFLYTEK, Hefei

Member of the first Spark Camp, Organizing the Large Language Model Judicial Aptitude Test. Develop a civil pleading generation tool based on the Spark Model.

Extracurricular Activities

- **Peer Counselor** at Yunqi Studio, Northeastern University.
- **Tutor** of Harbin Engineering University's "Confluence - Class Aid One" program.
- **Volunteer** for events such as the International Student Snow Sculpture Competition.