

Haojin Wang

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Education

University of Illinois Urbana-Champaign, Master of Computer Science (Expected)	Sept 2025 – July 2027
Tongji University, B.Eng in Computer Science and Technology	Sept 2021 – July 2025
GPA: 92.9/100.0	
National University of Singapore, Exchange Student	Jan 2024 – May 2024

Research Interest

My primary research interest generally lies in learning for **Natural Language Processing (NLP)**, encompassing both applied and fundamental research. Recently, I have been focusing on model interpretability through inference-time algorithms for Large Language Models (LLMs) and the design of self-evolving agent frameworks. I aim to contribute to the development of **safer** and **more transparent** AI systems.

Experience

Research Assistant , UC Santa Cruz – Santa Cruz, CA (<i>Remote</i>)	Feb 2025 – Sept 2025
Advisor: Prof. Yuyin Zhou, Computer Science and Engineering, UC Santa Cruz	
<ul style="list-style-type: none">Conducted research on medical visual question answering (VQA) benchmarks and the design of agent systems.Co-led the development of MedFrameQA as a co-first author. Currently leading the development of an agent system with self-evolving capabilities.	
Research Assistant , University of Waterloo – Waterloo, ON (<i>Onsite</i>)	Sept 2024 – Feb 2025
Advisor: Prof. Freda Shi, David R. Cheriton School of Computer Science, University of Waterloo Prof. Zining Zhu, Stevens Institute of Technology	
<ul style="list-style-type: none">Conducted research on next token distribution, prefix tuning and gradient-based adversarial attacks in NLPFirst Author in the project of Distribution Prompting, which provides insights into the expressiveness of Language Models and the challenges in using them as probability distribution proposers	

Publications

[1] Distribution Prompting: Understanding the Expressivity of Language Models Through the Next-Token Distributions They Can Produce [arXiv]
Haojin Wang, Zining Zhu, Freda Shi
In: <i>Proceedings of the 2025 Conference on Empirical Methods in Natural Language Processing</i> . 2025.
[2] MedFrameQA: A Multi-Image Medical VQA Benchmark for Clinical Reasoning [arXiv] [project] [data]
Suhao Yu*, Haojin Wang*, Juncheng Wu*, Cihang Xie, Yuyin Zhou
Preprint.

Extracurricular Activities

Team Leader in China Collegiate Computing Contest: 2023 Mobile Application Innovation Contest	Mar 2023 - June 2023
<ul style="list-style-type: none">Served as the HCI designer and Idea Provider for the team workObtained the second prize in East China	
Team Member in 9th China Undergraduate Statistical Modeling Competition	Mar 2023 - Aug 2023
<ul style="list-style-type: none">Served as the main code writer of the contestObtained second prize	

Skills

Natural Languages: Mandarin (native), English (Proficient); TOEFL 109 (R:30/L:28/S:23/W:28); GRE 328 (Verbal: 158/Quantitative: 170/Analytical Writing: 3.5)

Programming Languages:

- Proficient: C, C++, Python (2/3), MATLAB
- Capable: JavaScript, HTML/CSS, Bash, SQL

Tools/Framework: Slurm, PyTorch, Git, \LaTeX , Visual Studio, ssh, React, Vue 3

Hobbies: Fitness, Music, Movie

Awards

- **Excellent Student Scholarship Second Prize:** 3000rmb (about 413.45 USD) Dec 2023
- **National Scholarship** (as the top 5 student in the department): 8000rmb (about 1102.54 USD) July 2022