Haonan (Howie) Wang

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Shelby Center for Engineering Technology, Auburn City, AL 36849-5347, USA

Research Interest

LLMs Agent Reasoning and Evaluation, with a focus on **Legal AI** and **Multi-Agent Reasoning**

Education

Auburn University, Auburn, AL, USA Aug. 2026 – Present
Doctor of Philosophy (Ph.D.) in Computer Science

- Department of Computer Science and Software Engineering
- Advisor: Effat Farhana

Johns Hopkins University, Baltimore, MD, USA Aug. 2023 – May 2025
Master of Science in Engineering (M.S.E.) in Computer Science

- Department of Computer Science | JHU Center for Language and Speech Processing (CLSP)
- Advisor: Ziang Xiao, Jie Gao, Jason Eisner,
- Collaboration: Xingdi Yuan(Microsoft Research), Ruoyao Wang(Central University of Finance and Economics),Ting-Hao 'Kenneth' Huang(The Pennsylvania State University)
- GPA: 3.8/4.0

Liaoning Technical University, Fuxin, Liaoning, China Sep. 2019 – Jun. 2023
Bachelor of Science (B.S.) in Information and Computing Science

- Department of College of Science | Institute of Machine Learning and Data Mining
- Advisors: Wei Liu, Yu Zhang
- Collaboration: Prof.Guangwei Liu(Professor at Liaoning Technical University)
- GPA: 3.42/4.5; Ranked **1st**

Publications

Conference and Workshop Papers:

[6] "From Noise to Nuance: Enriching Subjective Data Interpretation through Qualitative Analysis."
Ruiyuan Wan, **Haonan Wang**, Ting-Hao Kenneth Huang, and Jie Gao.
4th HCI + NLP Workshop at EMNLP, 2025.

[5] "ByteSized32Refactored: Towards an Extensible Interactive Text Games Corpus for LLM World Modeling and Evaluation."
Haonan Wang, Junfeng Sun, Xindi Yuan, Ruoyao Wang, and Ziang Xiao.
5th WordPlay Workshop at EMNLP, 2025.

Journal Articles:

[4] "Unsupervised Feature Selection Algorithm Based on L2,p-norm Feature Reconstruction."
Wei Liu, Qian Ning, Guangwei Liu, **Haonan Wang**, Yixin Zhu, and Miao Zhong.

PLOS ONE, 2024.

[3] "Research on Geometric Figure Classification Algorithm Based on Deep Learning."
Ruiyang Wang, **Haonan Wang**, Junfeng Sun, Mingjia Zhao, and Meng Liu.
Advances in Artificial Intelligence and Machine Learning, 2022.

[2] "Research Status and Future Prospects of Machine Learning Algorithms in Big Data Analysis."
Haonan Wang.
Scientific Journal of Intelligent Systems Research, 2021.

Research Projects:

[1] "PerspectiveCoder-LM: An LLM-based Multi-agent System for Large-scale Corpus Inductive Text Coding Analysis."
Haonan Wang, Ziang Xiao, and Jie Gao.
2025.

Research Experience

Research Assistant Aug. 2026 – Present
Collaborative Software Engineering Lab | Auburn University

Research Assistant Jun. 2024 – Feb. 2026
ISLa Lab | Johns Hopkins University

Research Intern Jul. 2024 – Aug. 2024
EACON (Beijing Easy Control Intelligent Driving Technology Co., Ltd.)

Image Data Annotation Research Assistant Mar. 2024 – Apr. 2024
Computational Cognition, Vision, and Learning Lab | Johns Hopkins University

Research Assistant Sep. 2021 – Sep. 2023
Institute of Mathematics and Systems Science | Liaoning Technical University

Teaching Experience

Auburn University

- Graduate Teaching Assistant, Introduction to Computing with MATLAB (COMP 1230) Fall 2026
  Department of Computer Science and Software Engineering. Supported undergraduate instruction in introductory computing and MATLAB programming.

Academic and Volunteer Service

Invited Conference Reviewer
Conference on Neural Information Processing Systems (NeurIPS) Jun. 2026
Invited Journal Reviewer
Scientific Reports (Nature Portfolio) 2025, 2026

Honors and Awards

China National Scholarship (Top 1%), Ministry of Education of the People's Republic of China 2022
Outstanding Student Scholarship, Special Prize (Top 1%), Liaoning Provincial Government 2023
Outstanding Student Scholarship, First Prize (Top 10%), Liaoning Technical University 2019–2022