
Haonan Wang

hwang298@jh.edu • <https://haonanwang628.github.io/> • +1(443)-854-0002

Graduate Research Assistant, Johns Hopkins University

Malone Hall, 3400 N Charles St, Baltimore, MD 21218, USA

Research interests

My research interests focus on the **Large Language Models(LLMs)for Training and Evaluation, Human-Centered Artificial Intelligence (HCI-AI) and Machine learning (ML)**. Specifically, my work is motivated by the fundamental topic of **studying human-AI Alignment Text Corpus(Annotation/Collection/Statistical Inference)for LLMs Training [P8],[P7] and text-world modeling [P6]for LLMs Evaluation and Code Generation.**

Working experience

- | | |
|---------------------|--|
| 2025.09–
Present | Graduate Research Assistant(II), Johns Hopkins University ,Baltimore,USA
Advisor: Kristina Gligorić (Assistant Professor) |
| 2024.04–
Present | Graduate Research Assistant(I), Johns Hopkins University ,Baltimore,USA
Advisor: Ziang Xiao (Assistant Professor), Jie Gao (Postdoc Fellow) |
| 2024.06–2024.08 | Master Internship, EACON , Shanghai, China
Mentor: Qiao Lin (Vice President of System Engineering) |
| 2024.03–2024.04 | Image Data Annotation Research Assistant, CCVL lab ,Baltimore,USA
Mentor: CCVL lab |
| 2021.09–2023.06 | Undergraduate Research Assistant, Institute of Mathematics and Systems Science ,Liaoning,China
Advisor: Wei Liu (Professor), Yu Zhang (Professor), |

Education

- 2023 – 2025 **Johns Hopkins University**, Baltimore, Maryland, USA
Master of Science in Engineering in Computer Science(M.S.E)
Dissertation-Project: Unveiling Statistical Relationships Among Popular LLM Benchmarks: A Quantitative Framework
Guidance: [Jason Eisner](#)(*Faculty Advisor*), [Ziang Xiao](#)(*Project Advisor*)
Main courses-GPA: 3.8/4.0: Introduction to Human-Computer Interaction(**A**), Advanced Topics in Conversation User Interfaces(**A**), Introduction to Data Science(**A-**), AI Ethics and Social Impact(**A-**), NLP: Self-Supervised Models(**B+**)
- 2019 – 2023 **Liaoning Technology University**, Fuxin, Liaoning, China
Information and Computing Science(B.S.Degree)
Dissertation-Project: Research on the application of human action recognition based on LSTM-CNN
Guidance: [Wei Liu](#)(Project Advisor), [Yu Zhang](#)(Project Advisor)
Main courses-GPA: 3.42/4.5(Rank Top 1st): Numerical Analysis(**A+**), Mathematical Analysis(**A-**), Machine Learning(**A+**), Information Theory(**A+**), Data Mining(**A+**), Data Structure(**A**)

Honors and scholarships

- 2022 **China National Scholarship** (Ministry of Education of the People's Republic of China)
Awarded the highly competitive China National Scholarship, granted to the top 1% of students nationwide in recognition of outstanding academic performance, research excellence, and comprehensive personal development.
- 2023 **Outstanding Student Scholarship, Special Prize** (Liaoning province government)
- 2021 **Outstanding Student Scholarship, First Prize** (Liaoning Technology University)

Publications

Large Language Models(LLMs) and Human-Center AI

- 2025 [P8] **LLMs based on Multi-Agent data annotation for subjective text**
[Haonan Wang](#), Jie Gao, Ziang Xiao, Kristina Gligorić.
preprint[paper],[code]
- 2025 [P7] **From Noise to Nuance: Enriching Subjective Data Interpretation through Qualitative Analysis**
Ruyuan Wan, [Haonan Wang](#), Ting-Hao Kenneth Huang, Jie Gao.
The 4th HCI+NLP Workshop at EMNLP 2025 [paper]
- 2025 [P6] **ByteSized32Refactored: Towards an Extensible Interactive Text Games Corpus for LLM World Modeling and Evaluation**
[Haonan Wang](#), Junfeng Sun, Xindi Yuan, Ruoyao Wang, Ziang Xiao.
The 5th WordPlay Workshop at EMNLP 2025 [paper],[code]
- 2024 [P5] **Unveiling Statistical Relationships Among Popular LLM Benchmarks: A Quantitative Framework**
[Haonan Wang](#), Ziang Xiao.
Master-Dissertation-Project
- 2023 [P4] **Research on the application of human action recognition based on LSTM-CNN**
[Haonan Wang](#), Wei Liu.
B.S.-Dissertation-Project

Machine Learning and data analysis

- 2025 [P3] **Unsupervised Feature Selection Algorithm Based on L2,p-norm Feature Reconstruction**
Wei Liu, Miao Zhong, Guangwei Liu, [Haonan Wang](#), Ning Qian.
Plos one [paper],[code]
- 2022 [P2] **Research on geometric figure classification algorithm based on Deep Learning**
Ruiyang Wang, [Haonan Wang](#), Junfeng Sun, Mingjia Zhao, Meng Liu.
Advances in Artificial Intelligence and Machine Learning, [paper]

-
- 2021 **[P1] Research status and future prospects of machine learning algorithm in big data analysis**
Haonan Wang.
Journal of Network Computing and Applications [paper]

Project

- 2021 **Intelligent Scheduling of Autonomous Truck Fleets via Parallel Control Theory**
Advisors: **Wei Liu, Guangwei Liu, Runcai Bai** (Professor, Liaoning Technical University, China), **Yishan Pan**(Academician of Chinese Academy of Engineering, China).

Software Development Patent

- 2022 **[S.1] Artificial intelligence robot programming interactive control system**
Haonan Wang, Mingjia, Zhao, et al. (2022).
PRC Software Copyright Patent, Patent Nov. 2022SR1053901.
- 2022 **[S.2] Image recognition processing operation platform**
Haonan Wang, Junfeng, Sun, et al. (2022).
PRC Software Copyright Patent, Patent Nov. 2022SR1052419.
- 2022 **[S.3] Artificial Intelligence Community Security Equipment Monitoring System**
Haonan Wang, Chang Liu, et al. (2022).
PRC Software Copyright Patent, Patent Nov. 2022SR1052492.
- 2022 **[S.4] A network behavior analysis system based on machine learning**
Haonan Wang, Meng Liu, et al.
PRC Software Copyright Patent, Patent Nov. 2022SR1049807.
- 2022 **[S.5] Autonomous Driving Intelligent Dispatching Center Management System**
Haonan Wang, Chi Li, et al.
PRC Software Copyright Patent, Patent Nov. 2022SR1052526.

-
- 2022 **[S.6] Unmanned shortest path planning system.**
Haonan Wang, Ruiyang Wang, et al. (2022)(2022).
PRC Software Copyright Patent, Patent Nov. 2022SR0935020.
- 2022 **[S.7] Data operation analysis and collection system based on machine learning**
Haonan Wang, Junfeng, Sun, et al. (2022).
PRC Software Copyright Patent, Patent Nov. 2022SR1052428.
- 2022 **[S.8] Staff check-in face recognition system**
Jiawei Zhang, Pengyu Cai, Haonan Wang, et al. (2021).
PRC Software Copyright Patent, Patent Nov. 2021SR0699354.

Competition Awards

- 2022 **[C1] 1st Place, 12th MathorCup College Mathematical Modeling Challenge 2022**
National-level award in China
- 2022 **[C2] 1st Place, Liaoning Mathematical Modeling Contest 2022**
Provincial-level award in China
- 2022 **[C3] 1st Place, 7th Shuwei Mathematical Modeling Challenge for College Students 2022**
National-level award in China
- 2022 **[C4] 1st Place, 12th MathorCup College Mathematical Modeling Challenge 2022**
National-level award in China
- 2022 **[C5] 3rd Place, Liaoning Province “Shuo Ri Cup” College Student Computer Design 2022**
Provincial-level award in China
- 2022 **[C6] 3rd Place, Northeast Three Provinces Mathematical Modeling Competition 2022**
Provincial-level award in China
- 2022 **[C7] 2nd Place, American Mathematical Contest in Modeling 2022**
International award

2021	[C8] 3rd Place, 14th National Undergraduate Computer Design Competition 2021 National-level award in China
2021	[C9] 3rd Place, 11th Mathor Cup University Mathematical Modeling Challenge 2021 National-level award in China
2021	[C10] 2nd Place, National College Students' "Hua Shu Cup" Mathematical Modeling 2021 National-level award in China
2021	[C11] 1st Place, Liaoning Province "Shuo Ri Cup" College Student Computer Design 2021 Provincial-level award in China
2021	[C12] 1st Place, Liaoning Agricultural Economic Modeling Competition 2021 Provincial-level award in China
2021	[C13] 1st Place, Outstanding Scholarship of the Faculty of Science, LNTU 2021 School-level award in China
2021	[C14] 1st Place, Career Planning Competition of the Faculty of Science, LNTU 2021 School-level award in China
2021	[C15] 2nd Place, Liaoning Mathematical Modeling Contest 2021 Provincial-level award for China

Technical skills

Programming languages

Python, PyTorch, Scikit-learn, Git, etc.

Data Analysis

Pandas, Numpy, SciPy, NLTK, Matplotlib, Seaborn

Machine Learning

Linear Regression, Logistic Regression, K-Means, K-Nearest Neighbors (KNN), Decision Trees, Random Forests, Gradient Boosting (e.g., XGBoost), Support Vector Machines (SVM), Principal Component Analysis (PCA), Naive Bayes, Neural Networks

Languages

English (fluent), Chinese(native)

Reference

Thanks to my professor, collaborators, tech companies, and institutions for their continuous guidance, support, and opportunities to grow in both academic and professional domains.

Ziang Xiao

Assistant Professor

Johns Hopkins University

Kristina Gligorić

Assistant Professor

Johns Hopkins University

Jie Gao

Postdoc Fellow

Johns Hopkins University

Xingdi (Eric) Yuan

Senior Researcher

Microsoft Research, Montréal

Ruoyao Wang

Assistant Professor

Central Finance and Economics University

Yishan Pan

Chinese Academy of Engineering Fellow

Liaoning University

Peizhuang Wang

Chinese Association for Artificial Intelligence Fellow

Liaoning Technical University

Wei Liu

Professor

Liaoning Technical University

GuangWei Liu

Professor

Liaoning Technical University

Runcai Bai

National Safety Professor

Liaoning Technical University

Shuisheng Lan

Co-Founder, Chief Executive Officer (CEO)

EACON Intelligent Driving

Qiao Lin

Chief Technology Officer(CTO)

EACON Intelligent Driving