Jing Luo

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Education

Shandong University 09/2020 – 06/2024

B.S. in Mathematics, GPA: 84.15/100, IELTS: 6.5

Experience

Shenzhen Institutes of Advanced Technology (SIAT) Shenzhen, China

Research Assistant, Advisor: Prof. Min Yang 07/2024 – Present

- I am currently working in the field of NLP with a focus on LLMs. We proposed a novel persona-driven data augmentation method to enhance the math reasoning abilities of open-source LLMs, which has been submitted to ICLR 2025. I also look forward to exploring additional LLM-related fields in the future.

University of Illinois at Chicago Chicago, USA (Remote)

Research Assistant, Advisor: Prof. Lu Cheng 12/2023 – 05/2024

- My primary focus is on building trustworthy LLMs, where we implement a novel Conformal Prediction method for closed-source models, leveraging their uncertainty to provide statistical guarantees for outputs. I am the second author of a paper on this topic, accepted to **EMNLP 2024 Findings**.

Shanghai Jiao Tong University Shanghai, China

Research Assistant, Advisor: Prof. Weiran Huang 02/2023 – 10/2023

- I conducted theoretical research in the field of NLP, focusing on the impact of LLM complexity on performance in downstream tasks. I am the first author of a paper on this subject, which has been submitted to AISTATS 2025.

Shandong University Shandong, China

Research Assistant, Advisor: Prof. Feng Liu 04/2022 – 01/2023

- I researched how machine learning and deep learning techniques can be applied in finance, economics, and related fields. Notable projects included predicting oil prices using a hybrid GRU model and studying the impact of CEOs on internal controls through various machine learning algorithms.

Publications & Manuscripts

- **PersonaMath: Enhancing Math Reasoning through Persona-Driven Data Augmentation**
  Jing Luo, Run Luo, Longze Chen, Liang Zhu, Chang Ao, Jiaming Li, Yukun Chen, Xin Cheng, Wen Yang, Jiayuan Su, Chengming Li, Min Yang*
  Submitted to ICLR 2025
- **Investigating the Impact of Model Complexity in Large Language Models**
  Jing Luo, Huiyuan wang, Weiran Huang*
  Submitted to AISTATS 2025
- **API Is Enough: Conformal Prediction for Large Language Models Without Logit-Access**
  Jiayuan Su, **Jing Luo**, Hongwei Wang*, Lu Cheng*
  EMNLP 2024 Findings
  Oil price forecasting: A hybrid GRU neural network based on decomposition-reconstruction methods
  Shiqi Zhang, **Jing Luo**, Shuyuan Wang, Feng Liu*
  Expert Systems With Applications (ESWA)

Selected Awards

- National second prize in China Undergraduate Mathematical Contest in Modeling (2022.11)
- Shandong University Special Scholarship (2022)