YI HU

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EDUCATION

B.S., Peking University   Physics   *Sep 2020 – Jul 2024*

- GPA: 3.68/4.0
- **Coursework:** Advanced Mathematics, Linear Algebra, Data Structure and Algorithm, Methods of Mathematical Physics, Theoretical Mechanics, Quantum Mechanics
- **Thesis:** Classification of Flow and Nonflow Using Machine Learning

Ph.D., Peking University   Artificial Intelligence   *Sep 2024 – now*

- **Coursework:** Machine Learning, AI Reasoning, Large Language Model Alignment

EXPERIENCE

Research Intern   *Beijing*
Instructed by Muhan Zhang, School of Intelligence Science and Technology, PKU   *Jun 2022 – Sep 2024*

- investigate how large language models (LLMs) perform complex reasoning and introduce code prompting and rule-following fine-tuning to enhance the reasoning abilities of LLMs
- devoted to understand and solve length generalization in a wide range of tasks involving arithmetic reasoning and symbolic reasoning

Research Intern   *Beijing*
Instructed by Huichao Song, School of Physics, PKU   *Nov 2021 – Nov 2022*

- help build a machine learning model to classify flow and nonflow signals in Quark Gluon Plasma which performs well and has the potential to purify experiment data in the future
- survey research in heavy ion collisions and give reports

PUBLICATIONS

Code Prompting: a Neural Symbolic Method for Complex Reasoning in Large Language Models   Mar 2023

Yi Hu, Haotong Yang, Zhouchen Lin, Muhan Zhang

preprint, under review ↗

Case-Based or Rule-Based: How Do Transformers Do the Math?   Feb 2024

Yi Hu, Xiaojuan Tang, Haotong Yang, Muhan Zhang

Forty-first International Conference on Machine Learning (ICML 2024) ↗

Number Cookbook: Number Understanding of Language Models and How to Improve It   Oct 2024

Haotong Yang, *Yi Hu*, Shijia Kang, Zhouchen Lin, Muhan Zhang

preprint, under review ↗

AWARDS

Outstanding Graduates	*2024.7*
Jiukun Scholarship	*2023.9*
Xiaomi Scholarship	*2022.9*
Shenkeqi Scholarship	*2021.9*

OTHER EXPERIENCES

Reviewer: ACL Rolling Review (2023 December)