

HETONG WANG

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EDUCATION

University of Edinburgh

MSc in Artificial Intelligence

Supervisor: [Edoardo Ponti](#) and [Pasquale Minervini](#)

Edinburgh, UK

Sep 2022 – Nov 2023

University of Liverpool

BCc with Honours (Highest Distinction) in Computer Science

First Class (GPA 4.0/4.0, top 1%), Joint degree with Xi'an Jiaotong-Liverpool University, China

Liverpool, UK

Sep 2018 – Jul 2022

PUBLICATIONS

[Probing the Emergence of Cross-lingual Alignment during LLM Training](#)

Hetong Wang, Pasquale Minervini, Edoardo Ponti

The 2024 Annual Meeting of the Association for Computational Linguistics: Findings, **ACL 2024**

[Accelerating Laboratory Automation Through Robot Skill Learning For Sample Scraping](#)

Gabriella Pizzuto, Hetong Wang, Hatem Fakhroldeen, Bei Peng, Kevin S. Luck, Andrew I. Cooper

Best Healthcare Automation Paper Award

The IEEE 20th International Conference on Automation Science and Engineering: **IEEE CASE 2024**

EXPERIENCE

TsinghuaNLP Lab, Tsinghua University

Research Assistant in LLM-based Multi-agent Group

Supervisor: [Zhiyuan Liu](#)

Beijing, China

Nov 2023 - Present

Leverhulme Research Centre, University of Liverpool

Research Assistant in Robotics and Automation Group

Supervisor: [Gabriella Pizzuto](#) and [Andy Cooper](#)

Liverpool, UK

Jun 2022 - Sep 2022

PROJECTS

Boosting LLM Self-Alignment through Parametric Knowledge Ensemble (Ongoing)

- This project aimed to reach the upper bound of LLM self-alignment capability by leveraging multi-model generation/judgment with minimum external supervision (3k seed data)

Sparse Fine-tuning Towards Multi-task Instruction Following [\[Paper\]](#)

- Proposed a parameter-efficient instruct-tuning approach to improve task-specific capabilities of LLMs by masked fine-tuning the parameters with largest gradient update during continue training
- Achieved better zero-shot performance between tasks compared with full or random-masked fine-tuning

HONORS & AWARDS

British Computer Society Prize (best academic performance in 3rd year)

University Academic Excellence Award (highest grade in 1st-2nd year, £5,400/yr)

SKILLS

Programming Python, Java, R, C/C++, SQL, HTML **Tools** LaTeX, Linux, Shell, PyTorch, HPC