Hanxu Hu

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Intro

I am a 1st Year PhD Student at University of Zurich supervised by Prof. Rico Sennrich Z and Prof. Ivan Titov Z at University of Edinburgh. I am interested in evals and alignment of large language models.

Education

University of Zurich
Ph.D. Student in NLP
Supervisor: Prof. Rico Sennrich and Prof. Ivan Titov

Research Interest: Multilingual Language Models, Long Text Generation
University of Edinburgh
Master in NLP

Supervisor: Edoardo Ponti, Graduate with distinction
Nanjing University of Science and Technology

Sept 2024 - Mar 2028
(Expected)

Sept 2023 - Sept 2024

Sept 2023 - Sept 2024

Sept 2027 - June 2021

Bachelor in Measurement Tech

Experience

Research Intern
Shanghai AI Lab, InternLM Team
2024 - Sept 2024

• Conducted research on Multi-Agent Judges of large language models.

• Collaborated with researchers on **Comprehensive Multilingual General Benchmarks** covering series of tasks for large language models.

Research Assistant
Westlake University, WestlakeNLP, Mentor: Prof. Yue Zhang
Hangzhou, China Sept
2022 - July 2023

• Conducted research on **spatial reasoning** prompting for large language models.

Publications

Fine-tuning Large Language Models with Sequential Instructions June 2024 Hanxu Hu, Simon Yu, Pinzhen Chen, Edoardo M. Ponti, Under Submission, ARR: 3.5, 3.5, 4 Chain-of-Symbol Prompting for Spatial Reasoning in Large Language July 2023 Models *Hanxu Hu*, Hongyuan Lu, Huajian Zhang, Wai Lam, Yue Zhang COLM 2024 Meta-Learning for Multi-Modal Cross-Lingual Transfer December 2023 **Hanxu Hu**, Frank Keller EMNLP 2023, MLR Workshop Best Paper Honorable Mention Award Improving Controlled Table-To-Text Generation Robustness May 2023 Hanxu Hu, Zhongyi Yu, Yunqing Liu, Laura Perez-Beltrachini

Current Ongoing Projects

EACL 2023 Findings

A Comprehensive Multilingual Evaluation Suite for Large Language Models. Nov 2024 els.

 Curating a comprehensive multilingual benchmark including evaluating reasoning, instruction following, and code generation abilities in multilingual scenarios.

Multi-Judge Aggregation for Preference Learning and Evaluation of Large Language Models

July 2024

• Using different aspects templates for LLM-as-a-judge, and use confidence score for weighting and to aggregate them as a final judgement for preference annotating.

Multilingual Evaluation Benchmark

September 2024

• Creating a comprehensive multilingual evaluation benchmark for large language model, containing a series of tasks including instruction following, reasoning, and code generation.

Mitigate Information Loss in Long Text Generation of Language Models

September 2024

• Explore decoding methodologies for mitigating information loss problems in long text generation scenarios (e.g. document-level machine translation.)

Long Context Adaptation in SFT Stage

August 2024

- Explore methodologies for improving long-context understanding of Large language models during supervised fine-tuning stage.
- Find only using multi-hop questions can boost performance of language models for long-context understanding.
- o Conduct interpretability experiments to observe patterns of attention heads.

Continue Pre-training For Multilingual Large Language Models

August 2024

 Propose continue pre-training pipeline for language models to enhance multilingual ability and maintain original ability like reasoning and understanding.

Technologies

Languages: Python, C++

Frameworks: vLLM, Huggingface, PyTorch