YU ZHAO

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EDUCATION

University of Edinburgh Ph.D. candidate, supervised by Prof. Pasquale Minervini and Prof. Mirella Lapata	2023/09 - now
Harbin Institute of Technology, Shenzhen M.Sc. Computer Science, supervised by Prof. Xiaolong Wang and Prof. Baotian Hu	2020/09 - 2022/12
Hefei University of Technology B.Eng. Computer Science and Technology	2016/09 - 2020/06

EXPERIENCE

Xiaomi AI Lab, Beijing

2023/03 - 2023/08

Natural Language Processing Engineer, Full-Time

PUBLICATIONS

Steering Knowledge Selection Behaviours in LLMs via SAE-Based Representation Engineering
 Yu Zhao, Alessio Devoto, Giwon Hong, Xiaotang Du, Aryo Pradipta Gema, Hongru Wang, Xuanli He, Kam-Fai Wong, Pasquale Minervini

NAACL 2025 main conference

Analysing the Residual Stream of Language Models Under Knowledge Conflicts
 Yu Zhao, Xiaotang Du, Giwon Hong, Aryo Pradipta Gema, Alessio Devoto, Hongru Wang, Xuanli He, Kam-Fai Wong, Pasquale Minervini

MINT @ NeurIPS 2024

- 3. A Simple and Effective L₂ Norm-Based Strategy for KV Cache Compression

 Alessio Devoto*, Yu Zhao*, Simone Scardapane, Pasquale Minervini (* denotes equal contribution)

 EMNLP 2024 main conference, Oral Presentation
- 4. Analysing The Impact of Sequence Composition on Language Model Pre-Training

 Yu Zhao, Yuanbin Qu, Konrad Staniszewski, Szymon Tworkowski, Wei Liu, Piotr Miłoś, Yuxiang Wu,

Pasquale Minervini

ACL 2024 main conference, Oral Presentation

- An Efficient Memory-Augmented Transformer for Knowledge-Intensive NLP Tasks
 Yuxiang Wu, Yu Zhao, Baotian Hu, Pasquale Minervini, Pontus Stenetorp, Sebastian Riedel
 EMNLP 2022 main conference, Best Poster Award @ NeurIPS ENLSP
- Medical Dialogue Response Generation with Pivotal Information Recalling
 Yu Zhao*, Yunxin Li*, Yuxiang Wu, Baotian Hu, Qingcai Chen, Xiaolong Wang, Yuxin Ding, Min Zhang KDD 2022
- Structured Packing in LLM Training Improves Long Context Utilization
 Konrad Staniszewski*, Szymon Tworkowski*, Sebastian Jaszczur, Yu Zhao, Henryk Michalewski, Łukasz Kuciński, Piotr Miłoś

AAAI 2025

8. Are We Done with MMLU?

Aryo Pradipta Gema, Joshua Ong Jun Leang, Giwon Hong, Alessio Devoto, Alberto Carlo Maria Mancino, Rohit Saxena, Xuanli He, **Yu Zhao**, Xiaotang Du, Mohammad Reza Ghasemi Madani, Claire Barale, Robert McHardy, Joshua Harris, Jean Kaddour, Emile van Krieken, Pasquale Minervini

NAACL 2025 main conference

- 9. The Hallucinations Leaderboard An Open Effort to Measure Hallucinations in Large Language Models Giwon Hong*, Aryo Pradipta Gema*, Rohit Saxena*, Xiaotang Du*, Ping Nie*, **Yu Zhao***, Laura Perez-Beltrachini, Max Ryabinin, Xuanli He, Pasquale Minervini*

 **Preprint*, 2024*
- 10. Leveraging Pre-Training and Distillation Method for Title Generation with Limited Resource Tianxiao Xu, Zihao Zheng, Xinshuo Hu, Zetian Sun, **Yu Zhao**, Baotian Hu **ICASSP 2023**, SPGC Shared Task
- MSDF: A General Open-Domain Multi-Skill Dialog Framework
 Yu Zhao*, Xinshuo Hu*, Yunxin Li, Baotian Hu, Dongfang Li, Sichao Chen, Xiaolong Wang
 NLPCC 2021

AWARDS AND SCHOLARSHIPS

The University of Edinburgh, CDT in NLP, 4-year PhD Scholarship	2023
Best Poster Award @ NeurIPS ENLSP 2022. Award: 750.00 USD	2022
Baidu Inc. Expert of Language Understanding and Generation Evaluation	2021
The First Prize Scholarship, Harbin Institute of Technology	2021
The First Prize Scholarship, Hefei University of Technology	2017

COMPETITIONS

OMFETTIONS		
2023		
2022		
2021		

SKILLS AND TOOLS

Programming Languages	Python, C/C++, Bash, SQL
Deep Learning Frameworks	PyTorch, JAX
Tools	Linux, git, Docker, LATEX, Scrapy, Django
Natural Languages	Mandarin, Eastern Min, English

ACADEMIC SERVICES

Program Committee Member/Conference Reviewer

EMNLP 2022, 2023; ACL 2023; CoNLL 2023, 2024; ACL SRW 2024; ICLR 2025

RESEARCH INTERESTS

Foundation Model Pre-Training Efficient Training and Inference Mechanism Interpretability