









Jiaxu Zhao

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Languages

 Chinese 
 English 
 Dutch 

Skills

Coding: Python, C
Technical: Keras, Pytorch, Matlab

Research Interests

Large Language Models
Fairness and Bias in NLP
Causal Reasoning
Sparse Neural Network

About Me

I thrive on communication and collaboration, finding inspiration in engaging with diverse perspectives. The exchange of ideas has always fueled my curiosity and creativity.

I firmly believe in the significance of fairness, a value that transcends every aspect of life and research. Striving for a just world is not just a goal; it is an integral part of both my personal ethos and academic pursuits.

Beyond the academic adventure, I also dive into photography, squash, horse riding, and badminton.

Education

2021.9 – 2025.9 **Eindhoven University of Technology**
Research Group: Mathematics & Computer Science, Data Mining
Supervisors: Mykola Pechenizkiy, Meng Fang, Yulong Pei
Research direction: Fairness and Bias in Generative Language Models

2018.9 – 2021.7 **University of Electronic Science and Technology of China**
Research Group: Computer Technology, CI Lab
Supervisors: Xiaobin Wang, Hong Qu
Thesis: The Research and Solution of Exposure Bias in Neural Machine Translation.

Slected Publications

CHAmbi: A New Benchmark on Chinese Ambiguity Challenges for Large Language Models *Qin Zhang, Sihan Cai, Jiaxu Zhao, Mykola Pechenizkiy, Meng Fang, EMNLP findings 2024*

More than Minorities and Majorities: Understanding Multilateral Bias in Language Generation *Jiaxu Zhao, Zijing Shi, Yitong Li, Yulong Pei, Ling Chen, Meng Fang, Mykola Pechenizkiy. ACL findings 2024*

CHBias: Bias Evaluation and Mitigation of Chinese Conversational Language Models *Jiaxu Zhao, Meng Fang, Zijing Shi, Yitong Li, Ling Chen, Mykola Pechenizkiy ACL 2023*

Rest: Enhancing group robustness in DNNs through reweighted sparse training *Jiaxu Zhao, Lu Yin, Shiwei Liu, Meng Fang, Mykola Pechenizkiy. ECML PKDD 2023*

You Can Have Better Graph Neural Networks by Not Training Weights at All: Finding Untrained GNNs Tickets *Tianjin Huang, Tianlong Chen, Meng Fang, Vlado Menkovski, Jiaxu Zhao, Lu Yin, Yulong Pei, Decebal Constantin Mocanu, Zhangyang Wang, Mykola Pechenizkiy, Shiwei Liu. LoG 2022 (Oral and Best Paper Award)*

Internship Experience

2023.3 – 2023.6 **Digital Brain Laboratory, Shanghai** Student Research
Project: Chinese Large Language Models.
Responsibilities: I took on the crucial responsibility of evaluating fairness and mitigating bias in the Chinese Large Language Model, with a focus on handling toxic content and mitigating social biases. Additionally, I actively contributed to the Reinforcement Learning from Human Feedback (RLHF) training, playing a role in shaping the foundation language model.

Selected Projects

2023.9 – 2024.8 **Responsible AI Fall 2023 Research Program**
Led by Prof. Julia Stoyanovich, New York University
Co-supervise with Prof. Mykola Pechenizkiy
Research Project: Bias Detection in Social Media Discourse Using Large Language Models.

2024.7 – 2024.8 **OpenML AI Search Project**
Led by OpenML and Prof. Joaquin Vanschoren
Research Project: Training a dataset recommendation system based on Retrieval-Augmented Generation (RAG) with Large Language Models.

2022.11 – 2023.7 **Master Project**
Co-supervise with Prof. Meng Fang
Research Project: Exploring the synergy within a context-aware and domain-flexible pipeline for neural machine translation.