

ZHENGXIAO DU

Department of Computer Science and Technology
Tsinghua University, P.R. China

EDUCATION

Tsinghua University

Ph.D. in Computer Science
Advisor: Prof. Jie Tang

Fall 2020 - Present

Tsinghua University

B.S. in Computer Science
GPA: 3.91/4.00 (Rank 1/158)
Elite Collegiate Award by China Computer Federation (outstanding academic performance and research experience, 73 winners nationwide)
Tsinghua Excellent (Bachelor) Graduate (for top 2% of all the graduates)
Visiting student to Cornell University in 2019

Fall 2016 - Fall 2020

EXPERIENCE

Zhipu AI, Inc

Tech Leader

January 2023 - Present

Beijing, China

- Developed of code interpreter and function call of GLM-4.
- Built the pre-training corpora and evaluation framework of GLM-4.
- Built the SFT data for ChatGLM, including prompt filtering, response annotation and data management.
- Implemented and maintained the open-source language model ChatGLM-6b series (accumulating over 63k stars on Github).

Beijing Academy of Artificial Intelligence

Intern

September 2020 - March 2022

Beijing, China

- Designed the GLM pre-training algorithm
- Trained GLM-10B and GLM-10B-Chinese models.

Department of Computer Science, Cornell University

Research Assistant to Prof. Thorsten Joachims

Ithaca, USA

Jun 2019 - Oct 2019

- Designed a learning-to-rank algorithm to learn the ranking policy from implicit feedback with fairness constraints and completed empirical evaluations. A first-author (equal contribution) paper is under review.

DAMO Academy, Alibaba Group

Research Intern

Beijing, China

Sep 2018 - Jun 2019

- Designed an algorithm for personalized purchase recommendations for customers in different scenarios in the Guess-What-You-Like section on Taobao App

PUBLICATION

1. Aohan Zeng*, Xiao Liu*, **Zhengxiao Du**, Zihan Wang, Hanyu Lai, Ming Ding, Zhuoyi Yang, Yifan Xu, Wendi Zheng, Xiao Xia, Weng Lam Tam, Zixuan Ma, Yufei Xue, Jidong Zhai, Wenguang Chen, Peng Zhang, Yuxiao Dong, Jie Tang. "GLM-130B: An Open Bilingual Pre-Trained Model." ICLR 2023.

2. **Zhengxiao Du***, Yujie Qian*, Xiao Liu, Ming Ding, Jiezhong Qiu, Zhilin Yang, Jie Tang. “GLM: General Language Model Pretraining with Autoregressive Blank Infilling.” Annual Meeting of the Association for Computational Linguistics (ACL), p. 320-335, 2022.
3. Xiao Liu*, Kaixuan Ji*, Yicheng Fu*, Weng Lam Tam, **Zhengxiao Du**, Zhilin Yang, Jie Tang (2022). “P-Tuning v2: Prompt Tuning Can Be Comparable to Fine-tuning Universally Across Scales and Tasks.” Annual Meeting of the Association for Computational Linguistics (ACL), p.61-68, 2022.
4. **Zhengxiao Du**, Chang Zhou, Jiangchao Yao, Ming Ding, Hongxia Yang, Jie Tang. “CogKR: Cognitive Graph for Multi-hop Knowledge Reasoning.” *IEEE Transactions on Knowledge and Data Engineering* (TKDE). 35(2): 1283-1295 (2023)
5. Himank Yadav*, **Zhengxiao Du***, Thorsten Joachims. “Policy-Gradient Training of Fair and Unbiased Ranking Functions.” International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), p. 1044-1053, 2021.
6. **Zhengxiao Du**, Jie Tang and Yuhui Ding. “POLAR++: Active One-shot Personalized Article Recommendation.” *IEEE Transactions on Knowledge and Data Engineering* (TKDE). 33(6): 2709-2722 (2021)
7. **Zhengxiao Du**, Xiaowei Wang, Hongxia Yang, Jingren Zhou, and Jie Tang. “Sequential Scenario-Specific Meta Learner for Online Recommendation.” *SIGKDD Conference on Knowledge Discovery and Data Mining* (KDD), p. 2895-2904, 2019.
8. **Zhengxiao Du**, Jie Tang, and Yuhui Ding. “POLAR: Attention-Based CNN for One-Shot Personalized Article Recommendation.” *European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases* (ECML/PKDD), p. 675-690, 2018.

ADDITIONAL INFORMATION

Language Skills & Tests

- TOEFL: 109 (Reading 30; Listening 29; Speaking 23; Writing 27)
- GRE: 332 (Verbal 162; Quantitative 170)

Programming Skills

- Languages: Python, Java, C++, C, JavaScript, MATLAB, Bash
- Machine Learning: PyTorch, Tensorflow, Keras, scikit-learn