

FAN ZHOU

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🎓 EDUCATION

Shanghai Jiao Tong University 2021 – Present

M.S. in Computer Science and Technology, expected Mar. 2024

(GPA 3.7/4.0)

Supervisor: Prof. [Fan Cheng](#) & Prof. [Hongfei Fu](#).

Shanghai Jiao Tong University

2017 – 2021

B.S. in Computer Science and Technology (IEEE Honor Class)

(GPA 3.9/4.3, Ranking 8/110)

👥 EXPERIENCES

Research Intern, XLang Lab @HKUNLP Group

March. 2023 – Nov. 2023

Advisor: Prof. [Tao Yu](#)

Mainly focus on:

1. Language Agent Interface & Platform: “Re-produce” Chatgpt Plus & develop a platform for language models as agents [1]
2. Agentic Language Models: Pretraining & supervised fine-tuning based on Llama-2 70B [2]

Work on Symbolic Reasoning in Language Models

Aug. 2022 – March. 2023

Worked with: [Qian Liu](#) & [Haoyu Dong](#)

Mainly focus on:

1. Symbolic Tasks for Instruction Tuning: Utilizing symbolic languages (e.g., SQL) as instruction data [3]
2. Reasoning Ability in Language Models [4]

Research Intern, MicroSoft Research Asia, DKI Group

Oct. 2021 – Aug. 2022

Mentor: [Haoyu Dong](#) (Senior Researcher)

Mainly focus on:

1. Question Answering (especially numerical reasoning) over Semi-structured Tables [5]
2. Table Pre-training [6]
3. Formula Prediction Product Demo for Excel

Research Intern, SJTU John Hopcroft Center, Interpretable ML lab

Apr. 2019 – Dec. 2019

Advisor: Prof. [Quanshi Zhang](#)

Mainly focus on:

1. Analysis on Normalizing Flows’ Expression Flaws [7]
2. Interpretability of Neural Networks [8]

📖 PUBLICATIONS

(* denotes equal contribution) For full publications, please check: [Google Scholar](#), [Semantic Scholar](#)

[1] [OpenAgents: an Open Platform for Language Agent in the Wild](#)

Tianbao Xie*, **Fan Zhou***, Zhoujun Cheng*, Peng Shi*, Luoxuan Weng*, Yitao Liu*, Toh Jing Hua, Junning Zhao, Qian Liu, Che Liu, Leo Z. Liu, Yiheng Xu, Hongjin Su, Dongchan Shin, Caiming Xiong, Tao Yu.

Preprint, 2023. | [Code](#) | [Online Demo](#) | **6,500+ Real Users!**

[2] [Lemur: Harmonizing Natural Language and Code for Language Agents](#)

Yiheng Xu*, Hongjin Su*, Chen Xing*, Boyu Mi, Qian Liu, Weijia Shi, Binyuan Hui, **Fan Zhou**, Yitao Liu, Tianbao Xie, Zhoujun Cheng, Siheng Zhao, Lingpeng Kong, Bailin Wang, Caiming Xiong, Tao Yu.

(In charge of evaluation part)

ICLR-2024 (Spotlight, 5%). | [Code](#)

[3] [From Zero to Hero: Examining the Power of Symbolic Tasks in Instruction Tuning](#)

Qian Liu*, **Fan Zhou***, Longxu Dou, Zhengbao Jiang, Min Lin.

Preprint, 2023.

- [4] [Reflection of Thought: Inversely Eliciting Numerical Reasoning in Language Models vis Solving Linear Systems](#)
Fan Zhou*, Haoyu Dong*, Qian Liu, Zhoujun Cheng, Shi Han, Dongmei Zhang.
Neurips-22'MATH-AI Workshop.
- [5] [Tacube: Pre-computing Data Cubes for Answering Numerical-Reasoning Questions over Tabular Data](#)
Fan Zhou, Mengkang Hu, Haoyu Dong, Zhoujun Cheng, Fan Cheng, Shi Han, and Dongmei Zhang.
EMNLP-2022 (Oral) .
- [6] [Table Pre-training: A Survey on Model Architectures, Pretraining Objectives, and Downstream Tasks](#)
Haoyu Dong, Zhoujun Cheng, Xinyi He, Mengyu Zhou, Anda Zhou, **Fan Zhou**, Ao Liu, Shi Han, Dongmei Zhang.
IJCAI-2022 .
- [7] [Exploring Image Regions Not Well Encoded by an INN](#)
Zenan Ling, **Fan Zhou**, Meng Wei, Quanshi Zhang.
AISTATS-2022.
- [8] [Quantification and Analysis of Layer-wise and Pixel-wise Information Discarding](#)
Haotian Ma, Hao Zhang, **Fan Zhou**, Yinqing Zhang, Quanshi Zhang.
ICML-2022.

⚙️ SKILLS

- Programming Languages: Python > C++ > TypeScript
- Frameworks & Tools for DL: PyTorch, Huggingface-transformers, wandb > fairseq
- Language Skills: TOEFL (103/120, in 2019), CET-6 (641/710)
- Others: LaTeX, Markdown, Shell

♥️ HONORS AND AWARDS

MSRA Stars of Tomorrow(Award of Excellent Intern)	2022
Outstanding Graduates of SJTU	2021
SJTU Academic Scholarship	2017–2020
Shanghai City Scholarship($\approx 5\%$)	2018