

FAN ZHOU

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🎓 EDUCATION

Shanghai Jiao Tong University	2021.09 – 2024.03
M.S. in Computer Science and Technology, expected Mar. 2024 Supervisor: Prof. Fan Cheng & Prof. Hongfei Fu .	(GPA 3.7/4.0)
Shanghai Jiao Tong University	2017.09 – 2021.06
B.S. in Computer Science and Technology (IEEE Honor Class)	(GPA 3.9/4.3, Ranking 8/110)

👥 EXPERIENCES

AI Research [GAIR NLP](#), Generative AI Feb. 2024 – Now

Advisor: Prof. [Pengfei Liu](#)

Mainly focus on:

- Analysis on human and LLM preferences([1], ACL2024)
- (Large) Language Model Pre-training (Work In Progress)

Research Intern, [XLang Lab](#) @HKUNLP Group Mar. 2023 – Dec. 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 [2]
2. Agentic Language Models: Pretraining & supervised fine-tuning based on Llama-2 70B [3]

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 [4]
2. Reasoning Ability in Language Models [5]

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 [6]
2. Table Pre-training [7]
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 [8]
2. Interpretability of Neural Networks [9]

📖 PUBLICATIONS

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

[1] [Dissecting Human and LLM Preferences](#)

Junlong Li, **Fan Zhou**, Shichao Sun, Yikai Zhang, Hai Zhao, Pengfei Liu.
ACL-2024. | [Code](#) | [Online Demo](#)

[2] [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!**

- [3] [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](#)
- [4] [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.
- [5] [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.
- [6] [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) .
- [7] [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 .
- [8] [Exploring Image Regions Not Well Encoded by an INN](#)
Zenan Ling, **Fan Zhou**, Meng Wei, Quanshi Zhang.
AISTATS-2022.
- [9] [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(≈ 5%)	2018