

# 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 – Now  
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

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- 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

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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