

JIAN XIE

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BIOGRAPHY

Jian has a broad interest in Natural Language Processing, with a current focus on Language Agents. His primary interests lie in exploring the **memory mechanisms**^{[2][4]} and **planning capabilities**^{[1][3]} of language agents. He is also a beginner in Multimodal Large Language Models. His ultimate ambition is to advance AI to the level of human reasoning and surpass humans in tedious tasks, though this is a long and challenging journey.

EDUCATION

Fudan University , Shanghai, China. Master in Computer Science.	2022 - Present
Zhejiang University City College , Hangzhou, China. B.S. in Computer Science.	2018 - 2022

EXPERIENCES

Carnegie Mellon University (Remote) · Role: Research Intern at LTI LeiLiLab · Advisor: Lei Li	May. 2024 - Oct. 2024
The Ohio State University (Remote) · Role: Research Intern at OSU NLP Group · Advisor: Yu Su	Mar. 2023 - Feb. 2024
Fudan University (Shanghai) · Role: Student Researcher at Knowledge Works Lab · Advisor: Yanghua Xiao	Sept. 2022 - Present
Alibaba Group (Hangzhou) · Role: Research Intern · Host: Baohua Wu	Jul. 2022 - Jan. 2023

PUBLICATIONS

(* indicates equal contribution, # indicates work supervised by me)

1. **TravelPlanner: A Benchmark for Real-World Planning with Language Agents** 📄 📄 📄
Jian Xie*, Kai Zhang*, Jiangjie Chen, Tinghui Zhu, Renze Lou, Yuandong Tian, Yanghua Xiao, Yu Su.
ICML 2024 **Spotlight (3.5%)**.
2. **Adaptive Chameleon or Stubborn Sloth: Revealing the Behavior of Large Language Models in Knowledge Conflicts** 📄 📄
Jian Xie*, Kai Zhang*, Jiangjie Chen, Renze Lou, Yu Su.
ICLR 2024 **Spotlight (5%)**.
3. **Revealing the Barriers of Language Agents in Planning** 📄 📄
Jian Xie, Kexun Zhang*, Jiangjie Chen*, Siyu Yuan, Kai Zhang, Yikai Zhang, Lei Li, Yanghua Xiao
arXiv Preprint 2024.
4. **# How Easily do Irrelevant Inputs Skew the Responses of Large Language Models?** 📄 📄
Siye Wu*, **Jian Xie***, Jiangjie Chen, Tinghui Zhu, Zhang Kai, Yanghua Xiao.
COLM 2024 & KnowledgeNLP@ACL 2024 **(Oral)**.
5. **QUERT: Continual Pre-training of Language Model for Query Understanding in Travel Domain Search** 📄 📄
Jian Xie, Yidan Liang, Jingping Liu, Yanghua Xiao, Baohua Wu, Shenghua Ni
KDD 2023.

6. **Deductive Beam Search: Decoding Deducible Rationale for Chain-of-Thought Reasoning**  
Tinghui Zhu*, Kai Zhang*, **Jian Xie**, Yu Su.
COLM 2024.
7. **Empowering Biomedical Named Entity Recognition through Multi-Tagger Collaboration**
Jin Zhao, **Jian Xie**, Tinghui Zhu, Qian Guo, Yanghua Xiao, Zhixu Li.
ECAI 2024.
8. **MUFFIN: Curating Multi-Faceted Instructions for Improving Instruction-Following**   
Renze Lou, Kai Zhang, **Jian Xie**, Yuxuan Sun, Janice Ahn, Hanzi Xu, Yu Su, Wenpeng Yin.
ICLR 2024.
9. **From Persona to Personalization: A Survey on Role-Playing Language Agents** 
Jiangjie Chen*, Xintao Wang*, Rui Xu*, Siyu Yuan*, Yikai Zhang*, Wei Shi*, **Jian Xie***,
Shuang Li, Ruihan Yang, Tinghui Zhu, Aili Chen, Nianqi Li, Lida Chen, Caiyu Hu, Siye Wu,
Scott Ren, Ziquan Fu, Yanghua Xiao
TMLR 2024.
10. **Improving NER in Social Media via Entity Type-Compatible Unknown Word Substitution**  
Jian Xie*, Kai Zhang*, Lin Sun, Yindu Su, Chenxiang Xu
ICASSP 2021.

AWARDS

• Zhejiang Provincial Government Scholarship	2022
• Fudan Tencent Scholarship	2023
• National Scholarship	2024

ACADEMIC SERVICE

Reviewer	EMNLP2023, COLM2024, ICLR2024, ICLR2025
Secondary Reviewer	AAAI2023, ACL2023, KDD2023, ECML2023, ISWC2023

SKILLS

Programming Languages	Python > C/C++ > JAVA ≈ SQL
Frameworks	OpenAI APIs & Langchain & Transformers & Pytorch
Languages	Mandarin - Native & English - TOEFL 102 (S23)