

# 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**<sup>[5][8]</sup> and **planning capabilities**<sup>[1][7]</sup> 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

<b>Fudan University</b> , Shanghai, China.	2022 - Present
M.S. in Software Engineering.	GPA: 3.33/4.0
<b>Zhejiang University City College</b> , Hangzhou, China.	2018 - 2022
B.S. in Computer Science.	GPA: 3.93/4.0


















## EXPERIENCES

<b>Carnegie Mellon University (Remote)</b>	May. 2024 - Oct. 2024
<ul style="list-style-type: none"><li>Role: Research Intern at <a href="#">LTI LeiLiLab</a></li><li>Advisor: <a href="#">Lei Li</a></li><li>Research Focus: Language Agent Planning<sup>[1]</sup></li></ul>	
<b>The Ohio State University (Remote)</b>	Mar. 2023 - Feb. 2024
<ul style="list-style-type: none"><li>Role: Research Intern at <a href="#">OSU NLP Group</a></li><li>Advisor: <a href="#">Yu Su</a></li><li>Research Focus: Memory Mechanism<sup>[8]</sup> and Planning<sup>[7]</sup> of Language Agent</li></ul>	
<b>Fudan University (Shanghai)</b>	Sept. 2022 - Present
<ul style="list-style-type: none"><li>Role: Student Researcher at <a href="#">Knowledge Works Lab</a></li><li>Advisor: <a href="#">Yanghua Xiao</a></li><li>Research Focus: Memory Mechanism of Language Agent<sup>[5]</sup> and Pretrained Language Model<sup>[10]</sup></li></ul>	
<b>Alibaba Group (Hangzhou)</b>	Jul. 2022 - Jan. 2023
<ul style="list-style-type: none"><li>Role: Research Intern</li><li>Host: Baohua Wu</li></ul>	

## PUBLICATIONS

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

- 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.
- AAAR-1.0: Assessing AI's Potential to Assist Research.** 📄 📄  
Renze Lou, Hanzi Xu, Sijia Wang, Jiangshu Du, Ryo Kamoi, Xiaoxin Lu, **Jian Xie**, Yuxuan Sun, Yusen Zhang, Jihyun Janice Ahn, Hongchao Fang, Zhuoyang Zou, Wenchao Ma, Xi Li, Kai Zhang, Congying Xia, Lifu Huang, Wenpeng Yin  
arXiv Preprint 2024.
- Empowering Biomedical Named Entity Recognition through Multi-Tagger Collaboration**  
Jin Zhao, **Jian Xie**, Tinghui Zhu, Qian Guo, Yanghua Xiao, Zhixu Li.  
ECAI 2024.

4. **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.
5. **# 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**).
6. **Deductive Beam Search: Decoding Deducible Rationale for Chain-of-Thought Reasoning**    
Tinghui Zhu\*, Kai Zhang\*, **Jian Xie**, Yu Su.  
COLM 2024.
7. **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%)**.
8. **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%)**.
9. **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.
10. **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.
11. **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 ( <b>Top 3%</b> ) | 2022 |
| • Fudan Tencent Scholarship ( <b>Top 3%</b> )                  | 2023 |
| • National Scholarship ( <b>Top 1.7%</b> )                     | 2024 |

## ACADEMIC SERVICE

<b>Reviewer</b>	EMNLP2023, COLM2024, ICLR2024, ICLR2025
<b>Secondary Reviewer</b>	AAAI2023, ACL2023, KDD2023, ECML2023, ISWC2023

## SKILLS

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