

Tinghui Zhu

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Education

Fudan University Master of Science in Computer Science	2022/09 – present Shanghai, China
Fudan University Bachelor of Science in Computer Science	2018/09 – 2022/06 Shanghai, China

Experiences

Research Intern LUKA Group, supervised by Prof. Muhao Chen	2024/04 – present Remote
Research Intern OSU NLP Group, supervised by Prof. Yu Su	2023/07 – 2024/02 Remote
NLP Research Intern Meituan NLU team, supervised by Rui Xie	2022/06 – 2023/03 Shanghai, China
Graduate Researcher Knowledge Works Research Laboratory @ Fudan University, supervised by Yanghua Xiao	2022/09 – present Shanghai, China

Publications

- Deductive Beam Search: Decoding Deducible Rationale for Chain-of-Thought Reasoning* [COLM 2024]
Tinghui Zhu*, Kai Zhang*, Jian Xie, Yu Su
- Towards Visual Taxonomy Expansion* [ACMMM 2023]
Tinghui Zhu, Jingping Liu, Haiyun Jiang, Yanghua Xiao, Zongyu Wang, Rui Xie, Yunsen Xian
- TravelPlanner: A Benchmark for Real-World Planning with Language Agents* [ICML 2024 Spotlight]
Jian Xie*, Kai Zhang*, Jiangjie Chen, **Tinghui Zhu**, Renze Lou, Yuandong Tian, Yanghua Xiao, Yu Su
- How Easily do Irrelevant Inputs Skew the Responses of Large Language Models?* [COLM 2024]
Siye Wu*, Jian Xie*, Jiangjie Chen, **Tinghui Zhu**, Kai Zhang, Yanghua Xiao
- SLR: A Million-Scale Comprehensive Crossword Dataset for Simultaneous Learning and Reasoning*
Chao Wang*, **Tinghui Zhu***, Jingping Liu, Yanghua Xiao
- End-to-end Entity Linking with Hierarchical Reinforcement Learning* [AAAI 23]
Lihan Chen, **Tinghui Zhu**, Jingping Liu, Jiaqing Liang, Yanghua Xiao
- From Persona to Personalization: A Survey on Role-Playing Language Agents* [Survey]

Awards

- National Scholarship for Graduate Excellence 2023/10

Project Experience

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| Crossword Agent | 2023/06 – 2023/07 |
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- Developed an agent capable of solving complex crossword puzzles, achieving optimal performance.
 - Investigated the backtracking problem in large language model (LLM) agents, analyzing their awareness of the feasibility of current states and their ability to perform multi-step backtracking.
 - Assessed LLMs' performance to understand ambiguous queries in clue understanding tasks.
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| Chinese Blip2 | 2023/04 – 2023/06 |
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- Translated multiple image-text datasets using ChatGPT and applied diffusion models to generate high-quality image-text pairs, enhancing the generalizability of existing Chinese datasets.
 - Pretrained the Blip2 model based on the instruction-finetuned LLaMA. In the first stage, aligned image-text pairs on both translated and existing Chinese datasets. In the second stage, constructed an instruction-finetuning dataset and designed prompt formats for the instruction-finetuned language model.