

Yikai Zhang

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BIOGRAPHY

Yikai Zhang (张益恺) is a second-year Ph.D. candidate at Fudan University in the School of Computer Science, Shanghai, China. His research topics are mostly around **multimodal learning and autonomous agents**, including (but not limited to):

- **Multimodal Representation Learning:** Cross-modal alignment and training of multi-modal models.
- **Reasoning and Planning:** Endow language models with human-like reasoning and planning capabilities.
- **Simulated Environments:** Building dynamic and interactive environments for the evaluation of agents.

EDUCATION

Fudan University (Shanghai) Ph.D. in School of Computer Science 2022 - Present

- Knowledge Works Laboratory at Fudan University
- Ph.D. Advisor: Yanghua Xiao
- Topics: Multimodal Learning and Autonomous Agents

University of Electronic Science and Technology of China (Chengdu) B.S. in School of Computer Science and Engineering 2018 - 2022

- School Rank: 2 / 36, GPA: 3.94 / 4.0

EXPERIENCE

Fudan University (Shanghai) 2022 - Present

- Role: Ph.D. Student
- Topics: Multimodal Learning and Autonomous Agents

ByteDance (Shanghai) 2024 - Present

- Role: Intern
- Topics: Multi-agent Learning

PUBLICATIONS

- [1] *TIMEARENA: Shaping Efficient Multitasking Language Agents in a Time-Aware Simulation*
Yikai Zhang, Siyu Yuan, Caiyu Hu, Kyle Richardson, Yanghua Xiao, Jiangjie Chen
ACL 2024
- [2] *Light Up the Shadows: Enhance Long-Tailed Entity Grounding with Concept-Guided Vision-Language Models*
Yikai Zhang, Qianyu He, Xintao Wang, Siyu Yuan, Jiaqing Liang, Yanghua Xiao
ACL 2024 Findings
- [3] *HAUSER: Towards Holistic and Automatic Evaluation of Simile Generation*
Qianyu He, **Yikai Zhang**, Jiaqing Liang, Yuncheng Huang, Yanghua Xiao, Yunwen Chen
ACL 2023
- [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
Preprint 2024

- [5] *SelfGoal: Your Language Agents Already Know How to Achieve High-level Goals*
Ruihan Yang, Jiangjie Chen, **Yikai Zhang**, Siyu Yuan, Aili Chen, Kyle Richardson, Yanghua Xiao, Deqing Yang
Preprint 2024
- [6] *Go Beyond The Obvious: Probing the gap of INFORMAL reasoning ability between Humanity and LLMs by Detective Reasoning Puzzle Benchmark*
Zhouhon Gu, Zihan Li, Lin Zhang, Zhuozhi Xiong, Haoning Ye, **Yikai Zhang**, Wenhao Huang, Xiaoxuan Zhu, Qianyu He, Rui Xu, Sihang Jiang, Shusen Wang, Zili Wang, Hongwei Feng, Zhixu Li, Yanghua Xiao
Preprint 2023

PROJECTS

- [1] *CuteGPT: Towards a Useful Chinese Large Language Model*
Jiaqing Liang, Qianyu He, Yipei Xu, **Yikai Zhang**, Yuncheng Huang, Wenhao Huang, Xintao Wang, Lida Chen, Haixia Han, Jie Shi, Tinghui Zhu, Yidan Xu, Shisong Chen, Zhouhong Gu, Yanghua Xiao
Participated in model training and data processing for the instruction tuning of 13B large language models.

AWARDS

- First Prize of the Scholarship at Fudan University, 2023
- Outstanding Undergraduates Graduates of Sichuan, 2022

ACADEMIC SERVICES

- Serving as a Reviewer of Neurips (2024)