

# Yikai Zhang

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## BIOGRAPHY

Yikai Zhang (张益恺) is a second-year Ph.D. student 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:** Endowing 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: Research Intern
- Topics: Multi-agent Learning

## PUBLICATIONS

 \* represents equal contribution.

- [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] *DetectBench: Can Large Language Model Detect and Piece Together Implicit Evidence?*  
Zhouhong 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

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- [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

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

## ACADEMIC SERVICES

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- Serving as a Reviewer of Neurips (2024)