

# XINTAO WANG

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## BIOGRAPHY

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**Xintao Wang** (王鑫涛) is a third year Ph.D candidate at Fudan University in the School of Computer Science. He is deeply fascinated with ACG (Anime, Comics & Games) culture, and is devoted to revolutionizing the ACG industry with AI techniques. Hence, his research interests primarily focus on human-like generative agents and their personas, including (but not limited to):

- **Role-Playing Language Agents:** Targeting at creating AI agents that faithfully represent specific personas, including: (1) Agents for fictional characters from books and ACG, whose applications include virtual companions, games, and content creation; and (2) Agents for real-world individuals, which deeply understand user personas to serve as their digital proxies or personal assistants.
- **Cognitive Modeling in Language Models:** Focusing on integrating anthropomorphic cognition into LLMs, such as ego-awareness, social intelligence, personalities, etc. The goal is to promote LLMs' understanding of the inner world of themselves and others, hence enabling them to generate more cognitively-aligned and human-like responses.

## EDUCATION

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**Fudan University** (Shanghai) 2021 - 2026 (estimated)

*Ph.D. in School of Computer Science*

- Ph.D. Advisor: [Yanghua Xiao](#)
- Topics: Personas and Personalization of LLMs, Language Agents, Knowledge-guided Language Generation

**Fudan University** (Shanghai) 2017 - 2021

*B.S. in School of Computer Science*

*Major GPA: 3.87/4.0, Rank: 10/161*

- Advisor: [Yanghua Xiao](#), [Xipeng Qiu](#)
- Topics: Language Models and Knowledge Graphs

## EXPERIENCE

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**Chat-Haruhi-Suzumiya** (Open-source Project, 1.6k Stars) Aug 2023 - Mar 2024

- Role: Research Team Leader; Mentor: Cheng Li
- Responsibilities: Lead the research project on the personality analysis of role-playing language agents.

**Knowledge Works Laboratory at Fudan University** (Shanghai, China) Sep 2020 - Present

- Role: Student Research Leader, Advisor: [Yanghua Xiao](#)
- Responsibilities: Lead the research groups on (1) role-playing language agents and (2) knowledge-enhanced LLM applications. Together, we co-authored and published multiple research papers.

**FudanNLP Group at Fudan University** (Shanghai, China) Jul 2019 - Sep 2020

- Role: Student Researcher, Advisor: [Xipeng Qiu](#)
- Responsibilities: Worked on fine-tuning language models for NLP tasks.

## SELECTED AWARDS

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| <b>Chinese National Scholarship</b> (Top 1%)    | 2022 |
| <b>Excellent Graduates of Shanghai</b> (Top 5%) | 2022 |
| <b>Chinese National Scholarship</b> (Top 1%)    | 2020 |
| <b>Huawei Scholarship</b> (Top 3%)              | 2019 |
| <b>Hhctea Freshman Scholarship</b> (Top 7%)     | 2017 |

[\*: Equal Contribution; †: Project Leader]

- [1] **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
- [2] **InCharacter: Evaluating Personality Fidelity in Role-Playing Agents through Psychological Interviews**  
**Xintao Wang**, Xiao Yunze, Jen-Tse Huang, Siyu Yuan, Rui Xu, Haoran Guo, Quan Tu, Yaying Fei, Ziang Leng, Wei Wang, Jiangjie Chen, Cheng Li, Yanghua Xiao.  
Long Paper, in: **ACL 2024**
- [3] **SurveyAgent: A Conversational System for Personalized and Efficient Research Survey**  
**Xintao Wang**\*†, Jiangjie Chen\*, Nianqi Li, Lida Chen, Xinfeng Yuan, Wei Shi, Xuyang Ge, Rui Xu, Yanghua Xiao.  
Preprint, 2024
- [4] **Character is Destiny: Can Large Language Models Simulate Persona-Driven Decisions in Role-Playing?**  
Rui Xu, **Xintao Wang**, Jiangjie Chen, Siyu Yuan, Xinfeng Yuan, Jiaqing Liang, Zulong Chen, Xiaoqing Dong, Yanghua Xiao.  
Preprint, 2024
- [5] **Light Up the Shadows: Enhance Long-Tail Entity Grounding with Concept-Guided Vision-Language Models**  
Yikai Zhang, Qianyu He, **Xintao Wang**, Siyu Yuan, Jiaqing Liang, Yanghua Xiao.  
Long Paper, in: **Findings of ACL 2024**
- [6] **Evaluating Character Understanding of Large Language Models via Character Profiling from Fictional Works**  
Xinfeng Yuan, Siyu Yuan, Yuhan Cui, Tianhe Lin, **Xintao Wang**, Rui Xu, Jiangjie Chen, Deqing Yang.  
Preprint, 2024
- [7] **Prototypical concept representation**  
**Xintao Wang**, Jiaqing Liang, Yanghua Xiao, Wei Wang.  
Long Paper, in: **TKDE 2022**
- [8] **Language Models as Knowledge Embeddings**  
**Xintao Wang**, Qianyu He, Jiaqing Liang, Yanghua Xiao.  
Regular Paper, in: **IJCAI 2022**
- [9] **Knowledgpt: Enhancing large language models with retrieval and storage access on knowledge bases**  
**Xintao Wang**, Qianwen Yang, Yongting Qiu, Jiaqing Liang, Qianyu He, Zhouhong Gu, Yanghua Xiao, Wei Wang  
Preprint, 2023
- [10] **Maps-kb: A million-scale probabilistic simile knowledge base**  
Qianyu He, **Xintao Wang**, Jiaqing Liang, Yanghua Xiao  
Regular Paper, in: **AAAI 2023**