

# XINTAO WANG

✉ [xtwang21@m.fudan.edu.cn](mailto:xtwang21@m.fudan.edu.cn) </> <https://neph0s.github.io>

## BIOGRAPHY

---

**Xintao Wang** (王鑫涛) is a fourth 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 committed to contributing to the ACG industry with AI techniques. His research interests primarily focus on both LLM reasoning and human-like, role-playing LLMs, including (but not limited to):

- **Role-Playing Language Agents:** Targeting at creating AI agents that faithfully represent specific personas, including: (1) Accurate and nuanced evaluation of LLMs' role-playing abilities; (2) Construction of high-quality persona datasets from established fictions; (3) Development of foundation models for advanced role-playing abilities; (4) Agent frameworks and applications for role-playing, such as multi-agent systems for creative storytelling.
- **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

---

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

*Ph.D. in School of Computer Science*

- Ph.D. Advisor: [Yanghua Xiao](#), [Wei Wang](#)
- 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

---

**ByteDance, Seed** Mar 2025 - Present

- Role: Research Intern;

**StepFun** July 2024 - Mar 2025

- Role: Research Intern;
- Responsibilities: Pushing the boundaries towards faithful role-playing LLMs for established characters. Building pipelines for data curation and role-playing evaluation.

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

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

## SELECTED AWARDS

---

**Chinese National Scholarship** (Top 1%) 2022

**Excellent Graduates of Shanghai** (Top 5%) 2022

**Chinese National Scholarship** (Top 1%) 2020

**Huawei Scholarship** (Top 3%) 2019

**Hhctea Freshman Scholarship** (Top 7%) 2017

## SKILLS

---

**Programming Languages:** Python (Proficient), C/C++ (Competent)

**Tools & Libraries:** Cursor, PyTorch, Transformers, LangChain

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

- [1] **CoSER: Coordinating LLM-Based Persona Simulation of Established Roles**  
**Xintao Wang**, Heng Wang, Yifei Zhang, Xinfeng Yuan, Rui Xu, Jen-tse Huang, Siyu Yuan, Haoran Guo, Jiangjie Chen, Wei Wang, Yanghua Xiao, Shuchang Zhou.  
 Preprint, 2025
- [2] **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.  
 Survey Paper, in: **TMLR 2024**
- [3] **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**
- [4] **BookWorld: From Novels to Interactive Agent Societies for Creative Story Generation**  
 Yiting Ran, **Xintao Wang**\*, Tian Qiu, Jiaqing Liang, Yanghua Xiao, Deqing Yang  
 Preprint, 2025
- [5] **Prototypical concept representation**  
**Xintao Wang**, Jiaqing Liang, Yanghua Xiao, Wei Wang.  
 Long Paper, in: **TKDE 2022**
- [6] **Language Models as Knowledge Embeddings**  
**Xintao Wang**, Qianyu He, Jiaqing Liang, Yanghua Xiao.  
 Regular Paper, in: **IJCAI 2022**
- [7] **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
- [8] **PowerAttention: Exponentially Scaling of Receptive Fields for Effective Sparse Attention**  
 Lida Chen, Dong Xu, Chenxin An, **Xintao Wang**, Yikai Zhang, Jiangjie Chen, Zujie Liang, Feng Wei, Jiaqing Liang, Yanghua Xiao, Wei Wang  
 Preprint, 2025
- [9] **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.  
 Long Paper, in: **EMNLP 2024**
- [10] **Capturing Minds, Not Just Words: Enhancing Role-Playing Language Models with Personality-Indicative Data**  
 Yiting Ran, **Xintao Wang**, Rui Xu, Xinfeng Yuan, Jiaqing Liang, Deqing Yang, Yanghua Xiao.  
 Short Paper, in: **Findings of EMNLP 2024**
- [11] **Chain-of-Knowledge: Integrating Knowledge Reasoning into Large Language Models by Learning from Knowledge Graphs**  
 Yifei Zhang\*, **Xintao Wang**\*†, Jiaqing Liang, Sirui Xia, Lida Chen, Yanghua Xiao.  
 Preprint, 2024

- [12] **Ground Every Sentence: Improving Retrieval-Augmented LLMs with Interleaved Reference-Claim Generation**  
Sirui Xia, **Xintao Wang**, Jiaqing Liang, Yifei Zhang, Weikang Zhou, Jiaji Deng, Fei Yu, Yanghua Xiao.  
Findings of NAACL, 2025
- [13] **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**
- [14] **Maps-kb: A million-scale probabilistic simile knowledge base**  
Qianyu He, **Xintao Wang**, Jiaqing Liang, Yanghua Xiao  
Regular Paper, in: **AAAI 2023**
- [15] **Source Prompt: Coordinated Pre-training of Language Models on Diverse Corpora from Multiple Sources**  
Yipei Xu, Dakuan Lu, Jiaqing Liang, Jin Zhao, **Xintao Wang**, Hengkui Wu, Ken Chen, Liujiang Liu, Yingsi Xin, Xuepeng Liu, Yanghua Xiao, Zhixu Li  
Regular Paper, in: **CIKM 2024**
- [16] **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
- [17] **SurveyAgent: A Conversational System for Personalized and Efficient Research Survey**  
**Xintao Wang**<sup>\*†</sup>, Jiangjie Chen<sup>\*</sup>, Nianqi Li, Lida Chen, Xinfeng Yuan, Wei Shi, Xuyang Ge, Rui Xu, Yanghua Xiao.  
Preprint, 2024