# Rongwu Xu

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Paul G. Allen School of Computer Science & Engineering	rongwuxu.com
University of Washington	Google Scholar
EDUCATION	
University of Washington, Seattle WA, USA	
PhD in Computer Science & Engineering	2025 - Present

- Paul G. Allen School of Computer Science & Engineering Tsinghua University, Beijing, China MS IN COMPUTER SCIENCE 2022 - 2025 - Institute of Interdisciplinary Information Science - Thesis: Evaluating and Enhancing Content Safety of Large Language Models 2019 - 2022 BENG IN COMPUTER SCIENCE - Department of Computer Science & Technology 2018 - 2019 BENG IN ELECTRONICS INFORMATION ENGINEERING (Pre-transfer)

- Department of Electronic Engineering

#### Research

My primary interests lie in the field of NLP, AI and ML.

My previous research examines how LM design and human interaction shape model capabilities, behavior, and alignment. I combined NLP, machine learning, interpretability, and behavioral psychology and developed engineered techniques, rigorous evaluations and real-world applications.

### Publications and Manuscripts

(\* equal contribution, † corresponding author)

- 1. Difficulty-Based Preference Data Selection by DPO Implicit Reward Gap Xuan Qi\*, Rongwu Xu\*, Zhijing Jin arXiv Preprint (In submission, AAAI 2026)
- 2. DebateQA: Evaluating Question Answering on Debatable Knowledge Rongwu Xu\*, Xuan Qi\*, Zehan Qi, Wei Xu, Zhijiang Guo arXiv Preprint (In submission, EACL 2026)
- 3. AICrypto: A Comprehensive Benchmark For Evaluating Cryptography Capabilities of Large Language Models Yu Wang, Yijian Liu, Liheng Ji, Han Luo, Wenjie Li, Xiaofei Zhou, Chiyun Feng, Puji Wang, Yuhan Cao, Geyuan Zhang, Xiaojian Li, Rongwu Xu, Yilei Chen, Tianxing He

arXiv Preprint (In submission, ICLR 2026)

4. AI Awareness

Xiaojian Li, Haoyuan Shi, **Rongwu Xu**<sup>†</sup>, Wei Xu arXiv Preprint (In submission, AI Review journal)

- 5. The Singapore Consensus on Global AI Safety Research Priorities k Yoshua Bengio, Tegan Maharaj, Luke Ong, ... Rongwu Xu, among others arXiv Preprint
- 6. Humanity's Last Exam Long Phan, Alice Gatti, Ziwen Han, ... Rongwu Xu ..., Dan Hendrycks arXiv Preprint
- 7. Harnessing Large Language Models to Decode Public Opinions Qingjie Zhang\*, Rongwu Xu\*, Haoting Qian, Di Wang, Ye Yuxian, Yiming Li, Tianwei Zhang,

- Wenyu Zhu, Chao Zhang, Hewu Li, Han Qiu Preprint
- 8. Detecting LLM-Generated Spam Reviews by Integrating Language Model Embeddings and Graph Neural Network
  - Xin Liu\*, **Rongwu Xu**\*, Xinyi Jia, Jason Liao, Jiao Sun, Ling Huang, Wei Xu *Preprint*
- 9. Rules Created by Symbolic Systems Cannot Constrain a Learning System Shih-Wai Lin, **Rongwu Xu**, Xiaojian Li, Wei Xu *SSRN Preprint*
- 10. LIFEBENCH: Evaluating Length Instruction Following in Large Language Models Wei Zhang, Zhenhong Zhou, Junfeng Fang, **Rongwu Xu**, Yuanhe Zhang, Rui Wang, Ge Zhang, Xinfeng Li, Kun Wang, Li Sun, Lingjuan Lyu, Yang Liu, Sen Su In Proceedings of the Thirty-Ninth Annual Conference on Neural Information Processing Systems: Datasets and Benchmarks Track (NeurIPS D&B)
- 11. Nuclear Deployed: Analyzing Catastrophic Risks in Decision-making of Autonomous LLM Agents **Rongwu Xu\***, Xiaojian Li\*, Shuo Chen\*, Wei Xu In Findings of *the 63rd Annual Meeting of the Association for Computational Linguistics* (**ACL Findings**)
- 12. Does Chain-of-Thought Reasoning Really Reduce Harmfulness from Jailbreaking? Chengda Lu, Xiaoyu Fan, Yu Huang, **Rongwu Xu**, Jijie Li, Wei Xu In Findings of the 63rd Annual Meeting of the Association for Computational Linguistics (**ACL Findings**)
- 13. On the Role of Attention Heads in Large Language Model Safety Zhenhong Zhou, Haiyang Yu, Xinghua Zhang, Rongwu Xu, Fei Huang, Kun Wang, Yang Liu, Junfeng Fang, Yongbin Li In Proceedings of the Thirteenth International Conference on Learning Representations (ICLR) Oral
- 14. MR-BEN: A Comprehensive Meta-Reasoning Benchmark for Large Language Models Zhongshen Zeng, Yinhong Liu, Yingjia Wan, Jingyao Li, Pengguang Chen, Jianbo Dai, Yuxuan Yao, **Rongwu Xu**, Zehan Qi, Wanru Zhao, Linling Shen, Jianqiao Lu, Haochen Tan, Yukang Chen, Hao Zhang, Zhan Shi, Bailin Wang, Zhijiang Guo, Jiaya Jia In Proceedings of the Thirty-Eighth Annual Conference on Neural Information Processing Systems (NeurIPS)
- 15. Knowledge Conflicts for LLMs: A Survey Rongwu Xu\*, Zehan Qi\*, Zhijiang Guo, Cunxiang Wang, Hongru Wang, Yue Zhang, Wei Xu In Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP)
- 16. Walking in Others' Shoes: How Perspective-Taking Guides LLMs in Reducing Toxicity and Bias **Rongwu Xu**, Zi'an Zhou, Tianwei Zhang, Zehan Qi, Su Yao, Ke Xu, Wei Xu, Han Qiu In Proceedings of the 2024 Conference on Methods in Natural Language Processing (**EMNLP**)
- 17. Course-Correction: Safety Alignment Using Synthetic Preferences Rongwu Xu\*, Yishuo Cai\*, Zhenhong Zhou, Renjie Gu, Haiqin Wang, Yan Liu, Tianwei Zhang, Wei Xu, Han Qiu In Proceedings of the 2024 Conference on Empirical Methods in Natural Language Processing: Industry Track (EMNLP)
- 18. Long<sup>2</sup>RAG: Evaluating Long-Context & Long-Form Retrieval-Augmented Generation with Key Point Recall Zehan Qi\*, Rongwu Xu\*, Zhijiang Guo, Cunxiang Wang, Hao Zhang, Wei Xu In Findings of the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP Findings)
- 19. How Alignment and Jailbreak Work: Explain LLM Safety through Intermediate Hidden States Zhenhong Zhou, Haiyang Yu, Xinghua Zhang, **Rongwu Xu**, Fei Huang, Yongbin Li In Findings of *the 2024 Conference on Empirical Methods in Natural Language Processing* (**EMNLP Findings**)
- 20. Sing it, Narrate it: Quality Musical Lyrics Translation Zhuorui Ye, Jinhan Li, **Rongwu Xu**

In Findings of the 2024 Conference on Empirical Methods in Natural Language Processing (EMNLP Findings)

21. The Earth is Flat because...: Investigating LLMs' Belief towards Misinformation via Persuasive Conversation

**Rongwu Xu**, Brian S. Lin, Shujian Yang, Tianqi Zhang, Weiyan Shi, Tianwei Zhang, Zhixuan Fang, Wei Xu, Han Qiu

In Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics (ACL)

**Outstanding Paper Award** 

22. Preemptive Answer "Attacks" on Chain-of-Thought Reasoning

Rongwu Xu\*, Zehan Qi\*, Wei Xu

In Findings of the 62nd Annual Meeting of the Association for Computational Linguistics (ACL Findings)

23. Exploring Chinese Humor Generation: A Study on Two-part Allegorical Sayings Rongwu Xu

In Proceedings of the 2024 International Joint Conference on Neural Networks (IJCNN)

24. Tempo: Confidentiality Preservation in Cloud-based Neural Network Training Rongwu Xu and Zhixuan Fang

In Proceedings of the 2024 International Joint Conference on Neural Networks (IJCNN)

25. LSync: A Universal Timeline-synchronizing Solution for Live Streaming Yifan Xu\*, Fan Dang\*, **Rongwu Xu**, Xinlei Chen, Yunhao Liu In *IEEE/ACM Transactions on Networking* (**ToN**)

26. MISO: Legacy-compatible Privacy-preserving Single Sign-on using Trusted Execution Environments

Rongwu Xu, Sen Yang, Fan Zhang, Zhixuan Fang

In Proceedings of the 2023 IEEE 8th European Symposium on Security and Privacy (EuroS&P)

LSync: A Universal Event-synchronizing Solution for Live Streaming
 Yifan Xu, Fan Dang, Rongwu Xu, Xinlei Chen, Yunhao Liu
 In Proceedings of the IEEE INFOCOM 2022 - IEEE Conference on Computer Communications (INFOCOM)

28. LifeRec: A Mobile App for Lifelog Recording and Ubiquitous Recommendation Jiayu Li, Hantian Zhang\*, Zhiyu He\*, **Rongwu Xu\***, Pingfei Wu\*, Min Zhang, Yiqun Liu, Shaoping Ma

In Proceedings of the 2022 Conference on Human Information Interaction and Retrieval (CHIIR)

## Honors and Awards

Paul G. Allen First-Year Graduate Student Fellowship	2025
Outstanding Graduate at Tsinghua University	2025
- Highest honor, Top 1.3%, 84 out of 6500+, Top 1 in IIIS	
Outstanding Master Thesis at Tsinghua University	2025
- Highest honor, Top 1.3%, 84 out of 6500+, Top 1 in IIIS	
Most Recognized Research Outcomes at Tsinghua University Nomination (Top 2	
Tsinghua University Excellent Teaching Assistant (Top 2%, <200 out of 10000+)	2024
National Scholarship by Ministry of Education of China	2024
- Highest honor, Top 1%, Top 1 in IIIS	• • • •
Tsinghua University Outstanding Student Cadre (Top 1.5%, 121 out of 9000+)	2024
ACL 2024 Outstanding Paper Award	2024
- Top 0.79% of submitted papers, 35 out of 4407	2024
IJCNN 2024 Travel Grants	2024
Tsinghua-Yangtze River Delta International R&D Community Talent Scholarship	
Tsinghua University Overall Excellence Scholarship (Top 10%)	2023
Tsinghua University Overall Excellence Scholarship (Top 10%)	2022 2020
Tsinghua University Technological Innovation Excellence Scholarship	2020
1 <sup>st</sup> in "Youth in Action" Social Practice at Tsinghua University Tsinghua-Panasonic Scholarship (Top 10%)	2019
Outstanding Volunteers in Beijing	2019
2 <sup>nd</sup> Prize (Preliminary) in Chinese Chemistry Olympiad (CChO)	2017
1 <sup>st</sup> Prize in Chinese Chemistry Olympiad (Beijing Regional Qualifiers)	2017
Catastrophic Risks and Deception of LLM Agents  - Misalignment and Control Workshop (w. Concordia AI, FAR.AI, etc), Singap The Choice of Research  - Speech as a student representative at the 2024 IIIS opening ceremony, IIIS, Ts Investigating LLMs' Beliefs and Behaviors Under Persuasive Misinformation  - Oral report@ACL conference, Bangkok, Thailand  - Short clip, IIIS, Tsinghua	•
Knowledge Conflicts for RAG LLMs	Apr 2024
- Online talk, NICE (w. Soochow University)	Jul 2024
Privacy-preserving Authentication using TEE	jui 2021
- Oral report, EuroS&P conference, Delft, The Netherlands	May 2023
Experiences	·
Research	
	Sep 2024 - Dec 2024
Research Assistant (Remote)	Jep 2024 - Dec 2024
- Mentor: Zhijing Jin	
- Topic: AI Alignment	
	Aug 2023 - Mar 2024
Research Assistant (Remote)	146 2020 11141 2021
- Mentor: Yue Zhang	
- Topic: Knowledge of LLMs	
•	Apr 2021 - Oct 2022
Research Assistant	T 300 2022
- Mentor: Fan Zhang (Now at Yale University)	
- Topic: Privacy-preserving Authentication	
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## Industry

#### Shanghai Qi Zhi Institute, Shanghai, China

Sep 2024 - Sep 2025

RESEARCH INTERN

- Mentor: Wei Xu

- Topic: Clinical Large Multimodal Language Models

TongYi Vision Intelligence Lab, Alibaba Inc., Beijing, China

May 2024 - Aug 2024

Research Intern

- Mentor: Yu Liu- Topic: Generative Multimodal Models

#### Shanghai Qi Zhi Institute, Shanghai, China

Dec 2022 - Jan 2023

RESEARCH INTERN

- Mentor: Zhixuan Fang

- Topic: Decentralized Finance

### **Teaching**

I was invited to share my teaching experience within my department (2024 & 2023) and was awarded as an excellent teaching assistant at Tsinghua University (2024).

Introduction of Large Language Model Applications, Tsinghua University

Spring 2025, 2024

- HEAD TEACHING ASSISTANT & ORGANIZER

- Directed labs, organized curriculum, coordinated a TA team of 10 graduate students

Operating System and Distributed System, Tsinghua University

Fall 2023

- TEACHING ASSISTANT

- Held discussions, office hours; graded exams, assignments, and projects

Distributed System and Blockchain, Tsinghua University

Spring 2022

- TEACHING ASSISTANT

- Held discussions, office hours; graded exams, assignments, and projects

#### Mentoring

I have advised a total of 8 undergraduate/graduate students, many of whom have co-published articles under my mentorship.

Xiaojian (Luke) Li, Master's, UC Berkeley → AI PhD at Tsinghua	Oct 2024 - Present
Xuan Qi, Undergraduate, Tsinghua (Yao class)	Mar 2024 - Present
Yishuo Cai, Undergraduate, Central South University → CS PhD at Peking U	Apr 2024 - Oct 2024
Zi'an Zhou, Undergraduate, Tsinghua	Dec 2023 - May 2024
Tianqi Zhang, Undergraduate, Tsinghua → Master's at Tsinghua	Jun 2023 - Apr 2024
Brian S. Lin, Undergraduate, Tsinghua → Master's at Tsinghua	Jun 2023 - Apr 2024
Shujian Yang, Master's, Shanghai Jiao Tong University	Sep 2023 - Feb 2024
Xingyu Dang, Undergraduate, Tsinghua (Yao class) → CS PhD at Princeton	Oct 2021 - Jul 2022

#### Professional Services

#### Reviewer

ACL Rolling Review 2024 - Present

- Tracks: Ethics, Bias, and Fairness, Human-Centered NLP (2025 -), NLP Applica-

tions, Resources and Evaluation

Transactions on Knowledge and Data Engineering 2025
Transactions on Information, Forensics and Security 2025
IEEE Access 2025

#### **Memberships**

Member, Association for Computational Linguistics	Jul 2024 - Present
Member, ACL SIGSEC, Association for Computational Linguistics	Mar 2024 - Present
Member, International Neural Network Society (INNS)	Mar 2024 - Mar 2025
Member, Institute of Electrical and Electronics Engineers (IEEE)	Mar 2024 - Mar 2025

## SOCIETAL LEADERSHIPS

I have held positions in various student organizations at Tsinghua University and IIIS, and have accumulated rich student work experience.

President, IIIS Graduate Students Union, Tsinghua

Jun 2024 - Jun 2025

- Responsible for organization and publicity

Freshman Counselor, Graduate Class 2024, IIIS, Tsinghua

May 2024 - Jun 2025

- Facilitated communication among new graduate students and fostered class cohesion

**Counselor**, The 39<sup>th</sup> Summer School for Graduate, Tsinghua

Aug 2024

- Responsible for publicity

- Awarded Second Prize for Publicity Work

**Captain**, Summer Social Practice for Graduate (Shenzhen-Hong Kong Line), Apr 2024 - Jul 2024 IIIS, Tsinghua

- Coordinated team, liaised with government entities, led publicity efforts

- Awarded Excellent Individual of IIIS Summer Social Practice

Member, IIIS Graduate Students Union, Tsinghua

Jun 2023 - Jun 2024

- Organized the first student festival and various social activities

- Awarded Excellent Individual of IIIS Graduate Students Union (2023-2024)