

(86)18851830977
10084, Beijing, China
East Main Buildings, Tsinghua University

Aiwei Liu

Ph.D. Student

Homepage: exlaw.github.io
github.com/exlaw
liuaw20@mails.tsinghua.edu.cn

PREPRINTS

- **A Survey of Text Watermarking in the Era of Large Language Models**
Aiwei Liu*, Leyi Pan*, Yijian Lu, Jingjing Li, Xuming Hu, Lijie Wen, Irwin King, Philip S. Yu
- **An Unforgeable Publicly Verifiable Watermark for Large Language Models**
Aiwei Liu, Leyi Pan, Xuming Hu, Shu'ang Li, Lijie Wen, Irwin King, Philip S. Yu
Submitted to International Conference on Learning Representations (ICLR) 2024
- **A Semantic invariant Robust Watermark for Large Language Models**
Aiwei Liu, Leyi Pan, Xuming Hu, Shiao Meng, Lijie Wen
Submitted to International Conference on Learning Representations (ICLR) 2024

WORK EXPERIENCE

- Apple AIML Group

Mar. 2023 - present

Research Intern, Advisor: Dr. Meng Cao and Dr. Xiang Kong

Online collab with California, United States

Project: Prompt Difficulty Evaluation, Unsupervised safety alignment for LLM

- Keywords: Large Language Model, Safety Alignment
 - Accomplishments: 1) Developed a LLM-based automatic attributes identification methods for prompt difficulty evaluation. 2) Designed a safety alignment method for LLM that does not require manual or GPT-4 annotation of preference data.
- Chinese University of Hong Kong

Nov. 2023 - present

Visiting Scholar, Advisor: Prof Irwin King (IEEE Fellow)

Hongkong, China

Project: Watermark for Large Language Models

- Keywords: Large Language Model, Safety Alignment
 - Accomplishments: 1) Developed an unforgeable publicly verifiable watermark for Large Language Models 2) Write a comprehensive survey about the text watermarking in the era of LLMs.

SELECTED HONORS AND AWARDS

- Tsinghua Excellent Student Award (SecondClass) 2022
- Outstanding Graduates Nanjing University 2020
- China Electronics Technology Group Scholarship 2020
- National Scholarship 2019
- Hainan Airlines Scholarship 2018
- 2017

COMPETITION EXPERIENCE

- AI Application Innovation Competition of BAAI
Excellence Award: Atvideo Text-to-Video tool 2021
- Vivo and Nanjing University Hackathon
First Prize: ChainPaper Blockchain-based Paper Sharing Platform 2019

PROFESSIONAL ACTIVITIES

- Program Committee/ Reviewer
- The Annual Meeting of the Association for Computational Linguistics (ACL)
 - The Annual Conference on Empirical Methods in Natural Language Processing (EMNLP)
 - The Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL)
 - The Annual Conference of the European Chapter of the Association for Computational Linguistics (EACL)
 - The ACM WWW International World Wide Web Conference (WWW)

PERSONAL LIFE

刘瑗玮 is my name in Chinese characters. I was born and grown in Rizhao, China until I went to college in Nanjing, China. Basketball has always been my passion, and I have been a valuable member of my college basketball team, consistently leading as the top scorer in multiple seasons. Additionally, I also have a great interest in cycling and swimming.