

Xiaosen Zheng

COMPUTER SCIENCE · PH.D. CANDIDATE

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Summary

I am a Ph.D. candidate in the School of Computing and Information System at Singapore Management University. My recent interest focuses on **Data-Centric AI** and **AI Safety**.

Education

Singapore Management University

PH.D. CANDIDATE IN COMPUTER SCIENCE

Supervisor: Prof. Jing Jiang

Singapore

Sept. 2020 - ongoing

Central South University

B.ENG. IN SOFTWARE ENGINEERING

Changsha, China

Sept. 2015 - June 2019

Working Experience

Carnegie Mellon University

VISITING SCHOLAR

- **Synthetic Data for LLM Pre-training.**

US

Oct. 2024 - Jan. 2025

Research Intern

SEA AI LAB, SUPERVISED BY DR. TIANYU PANG

- **Training Data Attribution on Diffusion Models/Large Language Models**
- **Jailbreaking (Multimodal) Large Language Models**

Singapore

May. 2023 - Oct. 2024

Research Engineer

SINGAPORE MANAGEMENT UNIVERSITY, SUPERVISED BY PROF. JING JIANG

- **Post-hoc Interpretability for NLP**

Singapore

Sept. 2019 - Aug. 2020

Publications

(* indicates equal contribution)

[ACL 2022] An Empirical Study of Memorization in NLP

Xiaosen Zheng, Jing Jiang

[ICLR 2024] Intriguing Properties of Data Attribution on Diffusion Models

Xiaosen Zheng, Tianyu Pang, Chao Du, Jing Jiang, Min Lin

[ICML 2024] Agent Smith: A Single Image Can Jailbreak One Million Multimodal LLM Agents Exponentially Fast

Xiangming Gu*, **Xiaosen Zheng***, Tianyu Pang*, Chao Du, Qian Liu, Ye Wang, Jing Jiang, Min Lin

[NeurIPS 2024] Improved Few-Shot Jailbreaking Can Circumvent Aligned Language Models and Their Defenses

Xiaosen Zheng, Tianyu Pang, Chao Du, Qian Liu, Jing Jiang, Min Lin

[ICLR 2025] RegMix: Data Mixture as Regression for Language Model Pre-training (Spotlight)

Qian Liu*, **Xiaosen Zheng***, Niklas Muennighoff, Guangtao Zeng, Longxu Dou, Tianyu Pang, Jing Jiang, Min Lin

[ICLR 2025] Cheating Automatic LLM Benchmarks: Null Models Achieve High Win Rates (Oral)

Xiaosen Zheng*, Tianyu Pang*, Chao Du, Qian Liu, Jing Jiang, Min Lin

Skills

Machine Learning: LLMs, Multimodal LLMs, Diffusion Models, Data Attribution, etc.

Libraries & Tools: PyTorch, Transformers, Diffusers, Peft, Captum, Scikit-Learn, NLTK, etc.

Honors & Awards

- 2024 **Awarded**, Presidential Doctoral Fellowship (Singapore Management University)
- 2022 **Awarded**, Presidential Doctoral Fellowship (Singapore Management University)
- 2019 **Top-1%**, Elo Merchant Category Recommendation Competition (Kaggle)

Singapore

Singapore

Online