

Xiangyu Zeng

Computer Science and Technology
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EDUCATION

- **M.Sc. in Computer Science and Technology** 09.2022-07.2025
University of Electronic Science and Technology of China (UESTC) **GPA: 3.77/4.00 (87.74/100)**
- **B.Eng. in Software Engineering** 09.2017-07.2022
Chengdu University of Technology (CDUT) **GPA: 3.57/5.00 (85.48/100)**

RESEARCH INTERESTS

My research is in Deep Learning and Artificial Intelligence, specifically in areas such as large language models (**LLMs**), Artificial General Intelligence (**AGI**), like LLM-based Agent, and Generative Artificial Intelligence (**GAI**), including diffusion models. I am dedicated to merging insights from cognitive science to advance towards AGI.

And currently, my research focuses on enhancing the **representation** and **reasoning** capabilities of large-scale models such as Transformers and Vision Transformers by integrating concepts from **memory** and **reflective** mechanisms.

PUBLICATIONS

Xiangyu Zeng, Jie Lin, Piao Hu, Ruizheng Huang, Zhicheng Zhang, “A Framework for Inference Inspired by Human Memory Mechanisms”, *International Conference on Learning Representations (ICLR)*, 2024.

Xiangyu Zeng, Jie Lin, Piao Hu, Zhihao Li, Tianxi Huang, “SDMTR: A Brain-inspired Transformer for Relation Inference”, *Artificial Intelligence and Statistics (AISTATS)*, 2024.

Jie Lin, **Xiangyu Zeng**, Yulong Pan, Shangqing Ren, Yige Bao, “Intelligent Inspection Guidance of Urethral Endoscopy Based on SLAM with Blood Vessel Attentional Features”, *Cognitive Computation*, 2024.

Shuo Quan, Mengyu Sun, **Xiangyu Zeng**, Xuliang Wang, Zeya Zhu, “Time Series Classification Based on Multi-Dimensional Feature Fusion”, *IEEE Access*, 2023.

PATENTS

Lin Jie, Liu Minmin, Fu Bo, **Xiangyu Zeng**, Hu Piao, Tang Yuan, “A 2D/3D registration method based on causal inference”, Chinese Patent CN2024111919634, 2024. *Student First Inventor*

Lin Jie, Fu Bo, Luo Guangchun, Hu Piao, **Xiangyu Zeng**, Wu Yizhe, “An optimization method for distributed query services”, Chinese Patent CN2024111223647, 2024. *Student Second Inventor*

Jie Lin, **Xiangyu Zeng**, Piao Hu, Yulong Liang, Yi Bai, “A Comprehensive Evaluation Method for Enterprise Database Systems”, Chinese Patent CN202310448064.7, 2023. *Student First Inventor*

Jie Lin, Xinyu Xiao, Yulong Liang, Yi Bai, **Xiangyu Zeng**, Yong Wang, “A Method for Predicting Positive Margins of Prostate Cancer Based on 3D Feature Computation”, Chinese Patent CN202310029875.3, 2023.

INTERNSHIP EXPERIENCE

- **China Telecom Research Institute** 06.2022-12.2022
Beijing, China
- **Huawei Technologies Co., Ltd.** 01.2025-06.2025
Shenzhen, China

HONORS AND AWARDS

- **National encouragement scholarship** 11.2019
- Excellent student cadre of the [CDUT](#) 10.2020
- Nominee for Top Ten Outstanding Students of the [CDUT](#) 06.2021
- Grade A certificate of comprehensive performance conferred by Sichuan Province 07.2021
- **National encouragement scholarship** 11.2021
- Outstanding graduate of the [CDUT](#) 06.2022
- Outstanding postgraduate of the [UESTC](#) 11.2023
- First-class Scholarship for Postgraduate Studies 11.2023
- Outstanding student of the Laboratory of Intelligent Collaborative Computing at the [UESTC](#) 12.2023
- Academic young achievers of the [UESTC](#) 03.2024
- Excellent student cadre of the [UESTC](#) 04.2024
- Outstanding postgraduate of the [UESTC](#) 05.2024
- Outstanding party member of the [UESTC](#) 07.2024
- Outstanding postgraduate of the [UESTC](#) 11.2024
- First-class Scholarship for Postgraduate Studies 11.2024
- **National Scholarship** 12.2024
- **Outstanding Graduate of Sichuan Province** 03.2025
- Outstanding Graduate of the [UESTC](#) 03.2025

CONTESTS

- **Provincial Second Prize** The Hua Cup National College Student Mathematics Competition 12.2019
- **National Third Prize** National E-Commerce “Innovation, Creation, Entrepreneurship” Challenge Competition for College Students 06.2021
- **Provincial Silver Award** China International College Students’ Innovation Competition 09.2021
- **Provincial Third Prize** The Hua Cup National College Student Mathematics Competition 12.2022

LEADERSHIP EXPERIENCE

- Deputy squad leader 09.2018-06.2022
- President of the computer science and technology association 06.2021-06.2022
- Deputy director of the practice department, party affairs center 09.2022-09.2023
- Party branch secretary 06.2023-06.2024
- Youth League Branch Secretary 09.2022-06.2025

TEACHING ASSISTANT

Fundamental of Software Technology, G0815920.03 (UESTC)

Operating System Experiment, 0852116005 (UESTC)

ACADEMIC ACTIVITIES

- Poster Present at ICLR’2024 Vienna, 05.2024
- Poster Present at AISTATS’2024 Valencia, 05.2024
- Reviewer for ICLR’2025

HOBBIES

Photography, hiking and traveling