

# 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**
- **B.Eng. in Software Engineering** 09.2017-07.2022  
*Chengdu University of Technology (CDUT)* **GPA: 3.60/5.00**

## RESEARCH INTERESTS

My research is in **machine learning** and **artificial intelligence**, specifically in areas such as large language models (**LLMs**) and diffusion models. And I am dedicated to merging insights from cognitive science to advance toward artificial general intelligence (**AGI**).

Currently, my research focuses on enhancing the **representation** and **reasoning** capabilities of large-scale models such as **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

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

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*

## HONORS AND AWARDS

- National encouragement scholarship 11.2019
- Excellent student cadre of the [CDUT](#) 10.2020
- Grade A certificate of comprehensive performance conferred by Sichuan Province 07.2021
- National encouragement scholarship 11.2021
- Outstanding graduate of [CDUT](#) 06.2022
- Outstanding graduate student of the [UESTC](#) 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 graduate student of the [UESTC](#) 05.2024

## TEACHING ASSISTANT

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Fundamental of Software Technology, G0815920.03 (UESTC)

Operating System Experiment, 0852116005 (UESTC)

## ACADEMIC ACTIVITIES

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- Poster Present at ICLR'2024 *Vienna, 05.2024*
- Poster Present at AISTATS'2024 *Valencia, 05.2024*