Daozheng Xue

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Education

Aug 2023 – present **Shanghai Jiao Tong University**.
B.S. in Computer Science, ACM Honors Class.
ACM Honors Class is an elite CS program in SJTU for students ranked in the top 2% with aspirations in research.

Research Interest

My research aims to explore more efficient and powerful Artificial Intelligence systems, with broad interests in machine learning and a current focus on efficient deep learning architectures.

Research Experience

Jun. 2025 – Present **Shanghai Jiao Tong University**
Research Intern at the SJTU LUMIA Lab, advised by Prof. Zhouhan Lin.
Hierarchical Models Interacting with High-level Abstract Concepts
Explored concept representations beyond the token level, aiming to design hierarchical architectures capable of utilizing high-level abstract concepts.

Research Publications

Journal Articles

1 Beiya Dai, Yuliang Liu, Daozheng Xue, Qipeng Guo, Kai Chen, Xinbing Wang, Bowen Zhou, and Zhouhan Lin. *Context-level Language Modeling by Learning Predictive Context Embeddings*. 2025. arXiv: 2510.20280 [cs.CL]. URL: https://arxiv.org/abs/2510.20280.

Personal Projects

Mar. 2025 **Linear Crossformer** Course Project of Machine Learning
An Incremental Try For Crossformer
Introduce the basic linear attention to enhance the efficiency and performance of origin Crossformer

June. 2025 **No-Linear attention** Course Project of large language model
The attempt to introduce the nonlinear component to the traditional linear attention

Feb. 2025 **MY OS** Course Project of Operating System
An operating system on RISC-V platform finishing by RUST.
Implement a microkernel with shell and basic file system.

Dec. 2024 **MY CPU** Course Project of Computer Architecture
A RISC-V General Purpose CPU with Thomaslo architecture(Verilog).
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Personal Projects (continued)

Aug. 2024 **MY Compiler** Course Project of Compiler
A compiler for Mx (a C-like educational programming language) to RISC-V backend

Awards

2024-2025 **Zhiyuan Honor Scholarship** Zhiyuan Colledge, SJTU
Awarded to top 2% students in SJTU annually

Academic Excellence Scholarship SJTU
Awarded to students with top academic performance in SJTU

Skills

Programming C/C++, Python, Java, Verilog , Rust
Tools Git, Docker, LaTeX, Markdown