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 interests broadly span large language models, with a current focus on new architectures, diffusion language models, new training mechanisms.

Research Publications

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*. Under review at ICML 2026. URL: https://arxiv.org/abs/2510.20280.

Research Experience

Shanghai Jiao Tong University
Research Intern at the SJTU LUMIA Lab, advised by Prof. Zhouhan Lin.

Contextlm:Hierarchical Models Interacting with High-level Abstract Concepts Jun. 2025 – Oct. 2025
Explored concept representations beyond the token level, aiming to design hierarchical architectures capable of extracting and utilizing high-level abstract concepts.(Under review at ICML 2026)

Dynamic chunking Contextlm Nov. 2025 – present
Introduce the dynamic chunking mechanism for origin Contextlm by a simple prediction of future tokens, Improve the efficiency of computational resource allocation.(Planned submission to NeurIPS 2026)

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

Personal Projects

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

Feb. 2025 **MY Compiler, CPU and OS** Course Project of Compiler,Computer Architecture,Operating System
compiler for Mx (a C-like educational programming language) to RISC-V backend
A RISC-V General Purpose CPU with Thomaslo architecture(Verilog).
An operating system on RISC-V platform finishing by RUST.

Skills

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