

EDUCATION

- **Fudan University** Shanghai, China
M.S. in Computer Science; Advisor: Prof. Xipeng Qiu Sep 2024 – Present
- **Fudan University** Shanghai, China
B.S. in Artificial Intelligence, School of Computer Science Sep 2020 – Jun 2024

EXPERIENCE

- **Moss Intelligence (SII)** Shanghai, China
Algorithm Research Intern Apr 2025 – Present
 - Large-scale speech-language model development and optimization.
- **NetEase Leihuo** Hangzhou, China
Algorithm Intern Jan 2024 – Mar 2024
 - Developed an NPC interaction demo driven by large language models, exploring AI applications in gaming.
- **Nuclear Power Institute of China, No. 8 Institute** Chengdu, China
Algorithm Intern Jul 2023 – Oct 2023
 - Participated in a clean-energy large model project, responsible for RLHF fine-tuning tasks.
- **Fudan University RM Team EGA** Shanghai, China
Co-founder & Vision Group Leader Oct 2024 – Dec 2024
 - Responsible for implementing the auto-aiming system including prediction and ballistic compensation.
 - Team won the 1v1 Championship at Shanghai Regional and First Prize in 3v3 Battle Tournament.

PUBLICATIONS

- **DetectiveQA: Evaluating Long-Context Reasoning on Detective Novels** ICLR 2025
 - **Zhe Xu**, Jiasheng Ye, Xiaoran Liu, Xiangyang Liu, Tianxiang Sun, Zhigeng Liu, Qipeng Guo, Linlin Li, Qun Liu, Xuanjing Huang, Xipeng Qiu
 - A narrative reasoning benchmark based on detective novels with very long contexts (avg. 100K+ tokens), offering 1,200 Chinese-English QA pairs with detailed reasoning chains.
- **VLABench: Language-Conditioned Robotics Manipulation Benchmark** CVPR 2025
 - Shiduo Zhang, **Zhe Xu**, Peiju Liu, Xiaopeng Yu, Yuan Li, Qinghui Gao, Zhaoye Fei, Zhangyue Yin, Zuxuan Wu, Yu-Gang Jiang, Xipeng Qiu
 - First benchmark for VLA with long-horizon reasoning tasks, focusing on evaluation and definition.
- **MOSS-Speech: True Speech-to-Speech Models Without Text Guidance** arXiv 2024
 - SLM Team (contributor)
 - Modality-based layer splitting architecture with frozen pre-training strategy for native speech processing.

PROJECTS

- **LaCSR5-SpMV Optimization:** Optimized CSR5-based Sparse Matrix-Vector Multiplication for Loongson 3A5000, achieving up to $2.78\times$ speedup using SIMD and multi-core features. **Second Prize** in National Collegiate Computer Systems Ability Competition.
- **Personal Academic Homepage Template:** Open-source template built around configuration-first and modular design, supporting multilingual content and plugin extensions.
- **ESP32 Arduino Game Console:** Developed a game console using ESP32 and Arduino in C, including soldering, case design, and game programming.

SKILLS

- **Languages:** Python, C/C++, C#, SQL **Research Areas:** NLP, Speech Models, Embodied AI
- **Technologies:** PyTorch, Transformers, RLHF, SIMD Optimization **Tools:** Git, Linux, LaTeX