Yexin Wu

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ABOUT ME

As a computer science student with a deep passion for natural language processing, I am inspired by the potential of language to bring people together. Being eager to continue learning and growing in this fascinating field, I am determined to harness the power of language models to break down barriers and make the world a more united place, and I am confident that my enthusiasm and dedication will enable me to make a meaningful impact on the world.

LINKS

github

HONORS & AWARDS

2022 - **Huawei Scholarship**

2020 & 2021 & 2022 - **Zhiyuan Honorary Scholarship**
Top 2% in SJTU

SKILLS

- **Experienced Programming Language:** Python C++ Java Bash
- **Familiar Programming Language:** Verilog Go LLVM RISC-V assembly
- **Frameworks** Linux

LANGUAGE SKILLS

- **Native:** Mandarin Chinese
- **Fluent:** English

HOBBIES & INTERESTS

- **Literature** Classical novels, science fictions and ancient Chinese Poetry.
- **Sports** Ping-pong.

EDUCATION

ACM honors class, Shanghai Jiao Tong University - M.Sc. Hons. in CS
Sept. 2022 - present

- Honors Bachelor of Science (B.Sc. Hons) in Computer Science.
- Members of ACM Honors Class, Zhiyuan College, which is an elite CS program for top 5% talented students.
- GPA (years 1-2): 3.92/4.3
- Excellent Professional Courses Performance:
  Computer Architecture: 95/100 | Operating System: 95/100
  Machine Learning: 92/100
- Excellent Math Courses Performance:
  Mathematical Analysis: 97/100 | Linear Algebra: 95/100
  Mathematical Logics: 100/100

EXPERIENCE

BCMI lab - Undergraduate Researcher — Jul. 2022 - present

- **Advisor**: Prof. Hai Zhao, Ph.D Candidate Zhuosheng Zhang.
- **Interpretability** I have a strong interest in the Interpretability of natural language model. I am working on the project **Chain-of-thought in small model** to set my first step on this research area.

PROJECTS

Chain-of-thought in small model — Aug. 2022 - present

- This project is advised by Zhuosheng Zhang and Prof. Zhao.
- Large models like GPT-3 have shown marvelous performance with help of chain-of-thought(CoT) method nowadays. Our research interest is whether and how small language models like T5 can do CoT, and making language models more interpretable.
- This work is aimed at ACL-2023.

Neuron Morphologies Generation — Oct. 2022 - present

- A research on neuron morphologies generation advised by Nianzu Yang, a Teaching Assistant of deep learning course (AI3607) from thinklab.
- We are preparing for ICML-2023.

TCQA-Bert (Text-classification on Question Answering) — May, 2022

- A minipaper for Machine Learning course (CS3612).
- First step on deep learning and **natural language processing**.
- Try to apply supervised and unsupervised text-classification on Question Anwering Task (SQuAD2) to improve model's performance. Explore the attention mechanism to make an interpretation how bert gives a prediction and whether classification can improve performance.

Tomasulo RISCV-CPU Implemented in Verilog — Sept. 2021 - Dec., 2021

- A tomasulo riscv-cpu with 1MB icache and branch predictor with local history & 2-bit saturating counter.
- Ability to handle large projects. Acquire tomasulo algorithm and hardware programming skills.

Compiler for a C-and-java-like Language — Sept. 2021 - June, 2022

- A compiler of Mx* Language, a C-and-java-like Language.
- Implemented static compiler optimization close to GCC-O2. Further explored dynamic optimization JIT.

TEACHING EXPERIENCE

CS1954 Programming - Teaching Assistant — Fall, 2021

CS1951 Data Structure - Teaching Assistant — Spring, 2022

CS1952 Programming Practice - Teaching Assistant — Summer, 2022