Yexin (Libro) 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
- github

HONORS & AWARDS

2020 & 2021 & 2022 & 2023 - **Zhiyuan Honorary Scholarship**
Top 5% in SJTU

SKILLS

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

LANGUAGE SKILLS

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

HOBBIES & INTERESTS

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

EDUCATION

ACM honors class, Shanghai Jiao Tong University - B.Sc. Hons. in CS

Sept. 2020 - 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 1-3): 3.97/4.3
- Excellent Professional Courses Performance:
  Computer Architecture: 95/100 | Operating System: 95/100
  Machine Learning: 92/100 | Natural Language Processing 97/100
  Reinforce Learning 91/100
- Excellent Math Courses Performance:
  Mathematical Analysis: 97/100 | Linear Algebra: 95/100
  Mathematical Logics: 100/100

RESEARCH EXPERIENCE

BCMI Lab @SJTU - Undergraduate Researcher   Jul. 2022 - April 2023
- **Advisor**: Prof. Hai Zhao, Asst. Prof. Zhuosheng Zhang.
- **Research interest:** Chain-of-Thought in small language model.

PLUS Lab @UCLA - Undergraduate Visitor   April 2023 - Present
- **Advisor**: Asst. Prof. Nanyun (Violet) Peng, Ph.D. Candidate Sidi Lu.
- **Research interest** Chain-of-Thought evaluation and Insertion-of-Thoughts.

PUBLICATIONS

Selective Filtering for Chain-of-thought Reasoning without Large Language Models   Aug. 2022 - Jan. 2023 *Authors:* **_Yexin. W_**, *Zhuosheng Z., Hai Z.*
- Preprint, under review.
- We incorporate a CoT filter that can identify and exclude invalid CoTs to form SelF-Reasoner, thereby preventing invalid CoTs from negatively impacting the final answer prediction.
- Consistent performance gains on ScienceQA, ECQA, and LastLetter tasks.

MorphGrower: A Synchronized Layer-by-layer Growing Approach for Plausible and Diverse Neuronal Morphology Generation   Oct. 2022 - Jan. 2023
Authors: Nianzu. Y, Kaipeng. Z, Haotian. L, **_Yexin. W_**, *Zexin. Y, Shengdian. J, Jiaxiang. W, Yimin. W, Junchi. Y*
- Preprint, under review.
- Use global information encoded by TGNN and path information encoded by VAE encoder to enhance the VAE model on neuron morphologies generation task.
- Deep learning course (AI3607) project, advised by Prof. Junchi Yan and Teaching Assistant Nianzu Yang from thinklab.

PROJECTS

Tomasulo RISCV-CPU Implemented in Verilog   Sept. 2021 - Dec., 2021
- A Tomasulo RISCV-CPU with 1MB instruction cache 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