Xinhai Wang

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RESEARCH INTERESTS

To be frank, I don't have any specific research interests at the moment. However, I might have a preference for areas such as **multi-task learning, robotics, LLM, multimodal, and causal reasoning**. Of course, I would prioritize the supervisor's decision.

EDUCATION

- **Xi'an Jiaotong University**   Xi'an, China
  Bachelor of Computer Science; GPA: 3.5/4.3   *Sep. 2020 – Jul. 2024*

PUBLICATION

- **SEAT++: Improving Faithfulness for Attention**   IEEE TKDE
  *Lijie Hu, **Xinhai Wang(co-first author)**, Yixin Liu, Ninghao Liu, Mengdi Huai, Lichao Sun, and Di Wang*   *Under review*
  - This paper focused on **enhancing the robustness and faithfulness of the basic attention mechanism** and further improving its **stability of explanation**, building upon the foundations of the original paper. Within this project, my primary responsibilities included **code development and debugging**, as well as the completion of the data section of the research paper.

AWARDS

- **NOIP provincial second prize**   Nov. 2018

- **Second prize of the Northwest Division in the RoboMaster University Series**   May. 2021

- **Provincial second prize of CUMCM**   Sep. 2022

- **H Prize of MCM/ICM**   Mar. 2023

EXPERIENCE

- **NOIP Team Member**   Oct. 2017-Oct.2018
  - Registered for the school's information science contest team. Learned algorithm and C++.
  - Learned how to use Linux.

- **RoboMaster Teammate**   Sep. 2020 - May. 2021
  - Entered the vision team. Began exploring the fields of machine learning and CV. Learned Python.
  - Learned basic image processing methods and how to use basic functions in OpenCV/OpenMV.
  - Assisted the mechanical team in completing the robot.
  - Aassisted the electrical team in completing wiring and other tasks.

- **Internship Team Leader**   June. 2023 - Aug. 2023
  - Built a BBS for our university.
  - Learned Java and HTML.
  - Responsible for the architecture of a section of the front-end pages, as well as the integration and deployment of both the front-end and back-end.

- **RA**   July. 2023 - Now
  - Served as a RA in the group of Wang Di, an assistant professor of KAUST.
  - Completed a paper, which is under review by TKDE now. I'm co-first author.
  - Assisting another student in the group in completing his paper. Writing my second paper, which is about LLM Unlearning.

Coursework

- **CS143 PA1-4**
  In CS143 course assignments, I successfully completed the lexical analysis, syntactic analysis, and a portion of the semantic analysis components of the Cool language compiler.

- **FTP Server&Client**
  In this course assignments, I collaborated with fellow students to build an FTP server-client system using Python sockets. I primarily contributed to the server-side development and half of the client-side implementation.

- **CPU Building Experiment**
  In this experiment, I independently designed a CPU using Logisim software capable of executing all instructions from the MIPS-Lite instruction set. This CPU included the ALU, DM, ID, IM, GRM units, and the associated interconnections.

- **Virtual File System Experiment**
  In this experiment, I constructed a Unix file system based on the guidelines provided. The file system utilized an index-based storage mechanism with a three-level index structure. Disk usage was represented using a bitmap method.

Programming Skills

- **Languages**: Python, C++, MATLAB, java

- **Knows a little**: Windows Kernel Programming, Machine learning, CV

Others

- **Language score**: TOEFL:92 — GRE : Scores pending
- **Interests**: AI, SE, Psychology&Biology&Philosophy
- **Ideal**: Create autonomous strong artificial intelligence.
- **Merits**: Good self-learning ability, usually will not disturb the mentor too much; Extrovert,easygoing and humorous; Good coding skills.
- **Room for Enhancement**: Scientific research experience and expertise.

Additional Information

- The GPA I have provided now is the GPA from my school transcript. I have applied for WES evaluation, and I expect to receive the results in about one month.

- I am aware of my limited experience, and I am **open to short-term Research Assistant (RA) or internship opportunities**, with a duration of up to six months. If you are considering offering me such an opportunity, please let me know.

- Due to financial constraints, I pursued a **fully-funded** Ph.D./Master's program. I appreciate your understanding.

- If you have additional English language proficiency requirements, **I am committed to improving my TOEFL scores or obtaining GRE/IELTS scores as needed.**

Thank you for your kind consideration! If you would like to view my transcripts, certificates, coursework, or personal statement, please refer to my GitHub repository:https://626619403.github.io/.