JiaMing Shen

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Education

Tsinghua University   Sept 2021 – June 2025(expected)

Major: Computer Science and Technology, Minor: Statistics

- GPA: 3.96/4.0
- **Selective Coursework:** Fundamentals of Programming(A), Discrete Mathematics (1, 2) (A), Introduction to Computer Systems(A), Principles and Practice of Compiler Construction(A), Computer Organization(A), Cybersecurity Fundamentals(A+), Database Special Topic Training(A+), Data Mining(A), Introduction to Machine Learning(A)

Experience

Intern, MSR AI for Science   June 2024 - December 2024

- Improve the Ewald MP method to make it equivariant and fix problems in the original code
- Test in different molecular systems to explore the role of long-range modules

Partcipant of Academic Rising Stars Program, Tsinghua University   July 2023 - Oct 2023

- Multi-task learning of proteins based on heterogeneous graphs
- Finding datasets about proteins and adding researched datasets to new datasets allows the model to complete multi-task learning
- Run the single-task experiment and compare the results of the single-task experiment with the multi-task experiment

Rising Stars Program "Basic Models" Special Project, Tsinghua University   July 2023 - Aug 2023

- Lecture + Hackathon
- Gained a basic understanding of large language models
- Understood the LLM architecture and the application of large models in other tasks (multimodal model, protein language model). Had experience of finetuning

Partcipant of Academic Rising Stars Program, Tsinghua University   Nov 2022 - May 2022

- AI for Medical Image
- Segmentation of bone rings in CT images using traditional image segmentation methods and neural network methods

Publications

HeMeNet: Heterogeneous Multichannel Equivariant Network for Protein Multitask Learning   Apr 2024

Rong Han, Wenbing Huang, Lingxiao Luo, Xinyan Han, *Jiaming Shen*, Zhiqiang Zhang, Jun Zhou, Ting Chen

Projects

HuaDB   link
- Database course project

EAM system   link
- Software Engineering project: Enterprise management system

Connect4   link
- Deciding the next position of an online game using the MCTS algorithm

Blogs website   link

- Building web pages based on crawled data via Django

Chinese Draughts   link
- An online Chinese draughts game using Qt

Honors

Academic Excellence Scholarship in Tsinghua University(top 5%)   2023
Academic Excellence Scholarship in Tsinghua University(top 20%)   2022

Technologies

Programming Languages: C++,C, Python, JS/TS, SystemVerilog, VHDL, R

Frameworks: QT, Django, React, PyTorch

Tools: Linux,Git, LaTeX, Docker