

Muhan Wang

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EDUCATION

Tsinghua University(Yao Class)	2022.8 – Present
<i>B.S. Computer Science</i>	<i>Current GPA:3.94/4.0 Rank 11/94</i>
The High School Affiliated to Renmin University of China	2019.9 – 2022.6

COURSEWORK

Courses: Intro to AI(similar to CS188), NLP(similar to CS224n), Machine Learning, Probability & Statistics, Algorithm Design, Linear Algebra (A) & Abstract Algebra (A), Calculus (A+), Intro to Computer Systems (A), General Physics(Electrodynamics) (A)

AWARDS

First prize in Chinese High School Mathematics League	2019
	<i>14 Years old</i>
Overall Scholarship	2023.11
<i>Specific in Tsinghua, mainly focus on academic performance</i>	<i>10000RMB Rank 6/94</i>
S prize in Mathematical Contest In Modeling	2023.1

SKILLS

Languages and Frameworks: Python, Pytorch, C/C++, TypeScript, L^AT_EX
Tools: Git/GitHub, Linux, Slurm, Huggingface, VS Code, PyCharm

RESEARCH EXPERIENCES

3D-Diffusion-Policy <i>Pointcloud Feature Extraction, Diffusion model, Imitation Learning</i>	2023.9 – 2024.2
<ul style="list-style-type: none"> Project for RSS 2024. Hopeful to be the best imitation learning algorithm for 3D input. Use 3D feature conditioned diffusion model to generate policy for robot Read some papers of pointcloud and diffusion model, and implement them 	
Text2sql Generation <i>Finetuning LLM, Parallel Training</i>	2023.11 – Present
<ul style="list-style-type: none"> Seek for better sql generation method, using BIRD and Spider Benchmark Try to design better prompt and finetune LLM on BIRD dataset Learned to use Slurm to schedule GPU resources. Use Huggingface libs like Transformers, Accelerate to train model in parallel 	

COURSE PROJECT

Chinese Poem Generation(NLP course Project) <i>Finetuning LLM, OpenAI API, Frontend</i>	2023.9 – 2023.12
<ul style="list-style-type: none"> Developed a web application for poem and illustration generation Finetuning ChatCLM on Chinese poem dataset, achieve better generation quality and diversity Design prompt and integrated OpenAI API to generate illustration for poem 	

OTHER EXPERIENCES

SJTU-THU-PKU summer school | *Member*

2023.7

Summer school hosted by SJTU and Shanghai AI Lab, focusing on AI and cyptography. Give a presentation on Diffusion models.

CS Practice Detachment | *Member*

2023.7

Visited many AI enterprises and labs, academic institutions. Such as Microsoft, Baidu, Shanghai AI Lab, etc.

THU Blockchain Association | *Core, Tutor*

2023.9 – Present

Gave a presentation on MPCformer, private infenrence on transformers. [MPCFormer](#)