

Zhongmou He

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SUMMARY

I am currently a sophomore student in Joint Institute of SJTU & U-M and will transfer to U-M this fall. I am interested in Natural Language Processing (NLP) and have participated in researches on large language model and knowledge graph. I am looking for challenging research task and I am willing to devote most of my time and effort to it.

EDUCATION

University of Michigan (U-M) <i>B.S.E Data Science; GPA: N/A</i>	Sep. 2023 - May. 2025 <i>Ann Arbor, Michigan, USA</i>
Shanghai Jiao Tong University (SJTU) <i>B.S.E Electrical and Computer Engineering; GPA: 3.73/4.0</i>	Sep. 2021 - Aug. 2023 <i>Shanghai, China</i>

RESEARCH EXPERIENCE

Training and Application of Large Language Model (LLM) in Geoscience <i>Advisor: Xinbing Wang</i>	Sep. 2022 - present <i>Shanghai, China</i>
<ul style="list-style-type: none">– Objectives: Train large language model (LLM) specialized in the field of geoscience. Integrate the LLM into a geoscience knowledge retrieval system, so that it can provide users with answers and the corresponding information sources, including papers and knowledge graphs.– Contribution: Construct the data through PDF parsing and web crawler; Participate in the pre-training and fine tuning of the model; Test the ability of the model to answer questions, construct knowledge graphs, etc.; Participate in the establishment of knowledge retrieval system.	

AWARDS & HONORS

Gold Award (top 2%) of The University Physics Competition (UPC)	Jan. 2023
Sophomore Full Scholarship (top 1%, 75,000 CNY) of Joint Institute of SJTU & U-M	Dec. 2022
Undergraduate Excellent Scholarship of SJTU	Nov. 2022
Chun-Tsung Scholarship	Apr. 2022
Freshman Full Scholarship (top 1%, 75,000 CNY) of Joint Institute of SJTU & U-M	Dec. 2021
Second Place of National Olympiad in Informatics in Provinces (NOIP)	Dec. 2020

SKILLS

Programming Language	Python, C/C++, Matlab, L ^A T _E X, Ruby
Framework	Pytorch, Transformers, NLTK, Scikit-learn
Language	English (TOEFL: 107), Chinese (native)

RELATED COURSES

VE203 Discrete Mathematics	A+
VE280 Programming & Elem. Data Structures	A
VV285 Honors Mathematics III (Multi-variable Calculus)	A+
CS224W Machine Learning with Graphs	Self-study
CS224N Natural Language Processing with Deep Learning	Self-study

ACTIVITIES

Student Advisor — Advising Center of Joint Institute May. 2023 - present

- Advise students on course learning, project application, career planning, etc.
- Organize workshops and invite seniors to share their experiences regularly.
- Maintain DD wiki, an unofficial online encyclopedia about life and study in SJTU and U-M.

Team Leader of Zhufei Project — Shanghai Jiao Tong University Aug. 2022

- Help freshmen with financial difficulties by visiting them at home, explaining the financial aid policy of SJTU, describing the campus life and answering their questions.