

Yingzi Ma

SCHOOL OF COMPUTER SCIENCE, SICHUAN UNIVERSITY (SCU)
CROSS MEDIA LANGUAGE INTELLIGENCE LAB (X-LANCE LAB)
SHANGHAI JIAO TONG UNIVERSITY (SJTU)

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“The man who fears losing has already lost.” – George R. R. Martin

Introduction

I am a junior undergraduate student majoring in Artificial Intelligence at Sichuan University (SCU). I have been very fortunate to work with Prof. Colin TAN in 2022 through the NUS SOC summer workshop. I started my internship in April 2022 with Asst. Prof. Lu Chen in the language model group of the XLANCE lab at Shanghai Jiao Tong University.

My research interests are

- Parameter-efficient fine-tuning (PEFT) of large-scale pre-trained language models (PLMs)
- Knowledge enhanced PLMs, e.g. syntactic knowledge
- Model compression for PLMs and Multi-modal Pre-training of Large Models

Education

Sichuan University (SCU)

B.ENG. IN ARTIFICIAL INTELLIGENCE

- Score Point Average **92.25** (Rank **1**/37, the first four terms)
- Grade Point Average **3.87**/4.00
- China National Scholarship, 2021

Chengdu, China

Sept. 2020 - Jun. 2024 (Expected)

- Score Point Average **90.67** (Rank **1**/102)
- Grade Point Average **3.86**/4.00
- China National Scholarship, 2020

Sept. 2019 - Jun. 2020

Chengdu No.4 High School

INFORMATICS CONTEST CLASS

- Second Prize, National Olympiad in Informatics in Sichuan Province

Chengdu, China

Sept. 2016 - Jun. 2019

Publications

SK-Adapter: Syntax Enhanced Pre-trained Language Models with Structured Knowledge Adapter

YINGZI MA, DA MA, ZICHEN ZHU, YUNYAN ZHANG, RUIHUI ZHAO, HUIMIN WANG, YEFENG ZHENG AND LU CHEN[†]

ACL 2023

In Submission

CAM-GUI: A Conversational Assistant on Mobile GUI

ZICHEN ZHU, LIANGTAI SUN, JINGKAI YANG, YIFAN PENG, WUTAO LI, WEILIN ZOU, ZIYUAN LI, LU CHEN[†], YINGZI MA, DANYANG ZHANG AND KAI YU[†]

ACL 2023 (Demo track)

In Submission

Artificial intelligence in orthodontics: opportunities and challenges

XIAN HE, ZEYU HUANG, XINYUE HUANG, TIANJIN TAO, YINGZI MA, WENLI LAI, HU LONG[†]

JCM

In Submission

Researches

Cross Media Language Intelligence Lab

RESEARCH INTERN

- Working as a research intern in Language model Group
- Enhancing the performance of PLMs on NLU tasks by injecting syntax structure information through adapters.
- Working with Tencent Jarvis Lab to apply PLMs on the Chinese medical corpus.

X-LANCE

Apr. 2022 - PRESENT

CBCT jaw region segmentation method based on context fusion mechanism

TEAM MEMBER

Jun. 2021 - Sept. 2022

- National College Students' Innovation and Entrepreneurship Training Program, 2022.
- Provincial level and a patent for an invention as the first inventor (CN115578406A).

Embedding system and deep learning topic, NUS SOC Summer Workshop 2022

INTERN

May. 2022 - Aug. 2022

- Course grade of A+, which was evaluated based on assignments, quizzes, and projects.
- First Prize in the course Embedded System and Deep Learning with the final project Baby Care.

Character dialogue system for complex scenarios based on instruction finetuning

TEAM LEADER

Jun. 2022 - present

- National College Students' Innovation and Entrepreneurship Training Program, 2023.
- Under the guidance of Prof. Wenqiang Lei, we prompt the language model to imitate a specific character (in this project the character is Sister Jiang, a famous Chinese revolutionary martyr) by instruction fine-tuning.

Skills

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|-------------------------|---|
| Languages | Mandarin, English, Japanese |
| Programming | Python, C/C++, \LaTeX , MATLAB, Mathematica, Javascript |
| Machine Learning | PyTorch, TensorFlow, Sklearn, PaddlePaddle, Stable_baselines3 |
| Tools | SQL, Shell, Git, Slurm |

Competitions

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| 2022 | Finalist , Mathematical Competition In Modeling (MCM) | <i>The Consortium for Mathematics and Its Applications</i> |
| 2021 | Honorable Mention , Interdisciplinary Contest In Modeling (ICM) | <i>The Consortium for Mathematics and Its Applications</i> |
| 2021 | 2rd Award , Contemporary Undergraduate Mathematical Contest in Modeling (CUMCM) | <i>Sichuan Municipal Education Commission</i> |
| 2020 | 2rd Award , Chinese Mathematics Competitions (CMC) | <i>Sichuan Municipal Education Commission</i> |

Miscellaneous

- I also love to play table tennis, Go (Weiqi), and clarinet.
- I really like anime because it shows an ideal world that could not exist in reality.