

# Yingzi Ma

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

No.2, Section 2, Chuanda Road, Shuangliu District, Chengdu, Sichuan Province, China  
☎ +86-156-8054-2446 | ✉ g19myz@gmail.com | 📷 Gray311

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

## Introduction

I am a fourth-year 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 [Assi. Prof. Lu Chen](#) in the language model group of the XLANCE lab at Shanghai Jiao Tong University. Recently, I am doing a remote summer internship with [Prof. Chaowei Xiao](#) at University of Wisconsin–Madison.

My research interests are:

- Parameter-efficient fine-tuning (PEFT) of large-scale pre-trained language models (PLMs)
- Large language models (LLMs) for Language Agents and Embodied AI.
- Multi-modal Large Language Models (MLLMs).

## Education

### Sichuan University (SCU)

B.ENG. IN ARTIFICIAL INTELLIGENCE

Chengdu, China

Sept. 2020 - Jun. 2024 (Expected)

- Score Point Average **91.48** (Rank **3**/39)
- Grade Point Average **3.87**/4.00
- **China National Scholarship, 2021**

### Sichuan University (SCU)

B.A. IN TOURISM MANAGEMENT

Chengdu, China

Sept. 2019 - Jun. 2020

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

### Chengdu No.4 High School

INFORMATICS CONTEST CLASS

Chengdu, China

Sept. 2016 - Jun. 2019

- Second Prize, National Olympiad in Informatics in Sichuan Province

## Publications

### Understanding the Multimodal Instruction Format for In-Context Learning

ICLR 2024

YINGZI MA, CHUNYUAN LI AND CHAOWEI XIAO<sup>†</sup>

In Submission

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

EMNLP 2023

YINGZI MA, DA MA, ZICHEN ZHU, YUNYAN ZHANG, RUIHUI ZHAO, HUIMIN WANG, YEFENG ZHENG AND LU CHEN<sup>†</sup>

Under Review

### Is ChatGPT a Terminator for Dialogue Tasks?

EMNLP 2024

SENYU HAN, DA MA, LU CHEN, YINGZI MA, YICHUAN MA, KAI YU<sup>†</sup>

Under Review

### Artificial intelligence in orthodontics: opportunities and challenges

JCM

XIAN HE, ZEYU HUANG, XINYUE HUANG, TIANJIN TAO, YINGZI MA, WENLI LAI, HU LONG<sup>†</sup>

In Submission

## Researches

### Multimodal large language models

RESEARCH INTERN

Apr. 2023 - PRESENT

- Working with [Prof. Chaowei Xiao](#) at University of Wisconsin–Madison and [Chunyuan Li](#), a principal researcher at [Microsoft Research, Redmond](#).
- Exploring how to construct the text-image interleaved instruction datasets for enhancing in-context learning of Multimodal large language models (MLLMs).

### Cross Media Language Intelligence Lab

X-LANCE

RESEARCH INTERN

Apr. 2022 - PRESENT

- 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.

### 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

**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

2022 **Finalist**, Mathematical Competition In Modeling (MCM)

*The Consortium for Mathematics and Its Applications*

2021 **Honorable Mention**, Interdisciplinary Contest In Modeling (ICM)

*The Consortium for Mathematics and Its Applications*

2021 **2rd Award**, Contemporary Undergraduate Mathematical Contest in Modeling (CUMCM)

*Sichuan Municipal Education Commission*

2020 **2rd Award**, Chinese Mathematics Competitions (CMC)

*Sichuan Municipal Education Commission*

## 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.