# Tianyin Wang

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## Education

**South China University of Technology (SCUT)** *Aug. 2019 - Jun. 2023*
Major in Computer Science, School of Computer Science & Engineering
GPA 3.96/4.0, Ranking 2 /170

## Research Interests

My research interests include information extraction (low resource) and text generation.

## Research Experience

**Unsupervised Relation Extraction** *SCUT* *Aug. 2021 - Jun. 2022*
- Topic: using the silver data, which is created by off-the-shelf zero-shot relation extraction(RE) models, to improve the zero-shot RE performance.
- Working with Ziqian Zeng

**Text Augmentation Via Vision translation** *University of Washington* *Apr. 2022 - Present*
- Topic: a novel method of text augmentation: first map the text to the visual representation, then map it back to sentence representation and generate text. In this process we do not physically generate images.
- Independent research, working with Sheng Wang

## Selected Projects

**Learning from silver data created by zero-shot relation extraction(RE) model** *Nov. 2021- Dec. 2021*
- The RE model can produce a large amount of silver data(pseudo label). We are the first to investigate the usage of such data when exists a RE model. we propose first selecting clean data from it and then finetune the RE model. We find that our method could help improve the RE model performance. **paper is under reviewed*

**LaTeX Equation Recognition** *Nov. 2021- Dec. 2021*
- It aims to train a model which can map an image of a LaTeX math equation to LaTeX code using ResNet as image encoder and Transformer layers as text decoder.

**Online Store** *Aug. 2021- Sep. 2021*
- It is a web application based on springboot, mybatis and vue. It is an online shopping mall created for customers and merchants. It contains all of the essential features of the common online store. The concise user interface also enables efficient shopping and store management.

**Multimedia Player** *Apr. 2022- Jun. 2022*
- It is a robust and feature-packed media player based on FFmpeg, OpenGL, which can play a wide range of audio, and video files. Compared with traditional video-player, it has some advanced functions including video playback, video preview and sound wave visualization.

## Skills

**Programming Language:** Python, C/C++, Java
**Language:** English, Chinese (native), Cantonese (native)

## Selected Awards

**Awards**
Finalist (2.5%) in the 2021 Mathematical Contest in Modeling *Apr. 2021*
Second Price in Contemporary Undergraduate Mathematical Contest in Modeling *Nov. 2021*
**Scholarship**
The First Class of Science And Innovation Scholarship *Jul. 2022*
The Second Class Scholarship *Oct. 2020*