

# Zou Yi

381 Wushan Road, Tianhe District  
Guangzhou, Guangdong Province, China,  
510641

+86 18219325828  
joeyzou171@gmail.com  
202030234145@mail.scut.edu.cn

## Education

### South China University of Technology

2020 Sep – 2024 Jun (Expected)

*Bachelor of Engineering in Electrical Engineering*

*Guangzhou, Guangdong Province, China*

- Linear Algebra and Analytic Geometry, 3.7/4.0
- Probability and Mathematical Statistics, 3.7/4.0
- Analog Electronic Technology, 3.7/4.0
- Python Programming, 3.7/4.0

## Research Experience

### Research on performance of real-time fall detection algorithm

2023 Jan - 2023 July

*South China University of Technology*

*Guangzhou, Guangdong Province, China*

- Research on real-time fall detection preventing the elderly from injury
- Constructed algorithm models using neural network approach based on Ghost-Net combined with LSTM, reduced the time delay with fewer model parameters
- Applied a 2-steps mechanism and weighted preprocessing to the data in order to enhance real-time performance and compatibility on tiny mobile devices

### Data-based approach to forecast renewable energy

2022 Mar - 2023 Feb

*South China University of Technology*

*Guangzhou, Guangdong Province, China*

- Made predictions based on meteorology data from solar power station
- Organized and cleaned the data and analysed the correlation, extracted temporal information for time-series prediction
- Constructed algorithm with different structure including ARIMA model and recurrent neural network, judge the effect by evaluation indicators

## Extracurricular Activities

### Deputy Secretary of the Youth League Committee

2022 Dec - 2023 Nov

*South China University of Technology*

*Guangzhou, Guangdong Province, China*

- Initiated and organized the publicity office, managed and published over 50 articles on the official WeChat account.
- Set up soiree for freshmen to show themselves and get familiar with university surroundings.

### Certified Volunteer

From 2015 Sept

*Guangdong Volunteer Federation*

*Guangdong Province, China*

- Started volunteering since 2015 and the total cumulative time reached 142 hours.
- Anticipated in tutorial work for children who live in rural areas through the internet.
- Participated in the organization as well as supporting work of the 15th Guangdong Provincial Games.

## Awards and Honors

### Science Contest on Energy Saving and Emission Reduction

Honourable Mention

*South China University of Technology*

2022 May

### Star Volunteer

One Star

*Guangdong Volunteer Federation*

2021 May

*Specialized Skills*

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**Programming Languages:** Python (Intermediate)

**Software:** MATLAB

*Additional Information*

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**Language:** Native Mandarin and Cantonese speaker, competent in written and oral English

- IELTS Academic Module: Overall score 7 (R8 L8 W6 S6.5), 2023 Dec
- CET6: 547, 2021 June

**Athletics:** Badminton, Basketball