

WeiTao Zu

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EDUCATION

Shanghai JiaoTong University

Shanghai, China

Bachelor of Engineering

September 2019 - Present

Major: Biomedical Engineering

GPA: 3.59/4.30 | **Average Point:** 85.69/100

Relevant Courses: Fundamental of Digital Image Processing (92.4)

Outstanding Students Scholarship

EXPERIENCE

Multimodal Measurement of Depression Using Deep Learning Models

Project Lead

March 2022 - Present

- Developed a BiLSTM model with an attention layer to extract text features from patients' interviews, and a graph convolutional network to extract patients' EEG features.
- Achieved a 0.88 precision on the DAIC-WOZ dataset, and a 0.95 accuracy on the MODMA dataset.

Deep Learning System for Brain Image-Aided Diagnosis of Multiple Major Mental Disorders

Project Participant

October 2021 – August 2022

- Constructed an automatic diagnostic system utilizing T1-MRI images.
- Achieved good accuracy in binary classification and five-category classifications of mental diseases (including BD, SZ, OCD, MDD).
- Implemented a functioning application in Shanghai Mental Health Center, and model also performed well.

Kidney Organ Segmentation Based on Traditional Methods

Project Lead

September 2021 – January 2022

- Developed a Matlab GUI to segment kidney.
- Utilized OTSU/Connected Component Analysis/ Region Grow method.
- Achieved a 0.94 precision on the giving dataset.

SKILLS & INTERESTS

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- Proficient in Python, good at C++ and Matlab.
 - Good at Pytorch.
 - Interested in artificial intelligence, medical image analysis.