Mingyang Zhong

Computer Science
Sun Yat-sen University

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Education Background

Year	College	CGPA	Time
Freshman	Sun Yat-sen University School of Software Engineering	**3.9/5.0**	*Sept. 2022 - Jun. 2023*
Sophomore & Junior	Sun Yat-sen University School of Computer Science	**3.9/5.0**	*since Sept. 2023*

Research Projects

- **Brain Age Prediction with Transformer-based EEG-fMRI Model** *since Oct. 2024*
  Sun Yat-sen University **Changdong Wang's Lab**
  – Our goal was to utilize Transformer's structure on brain age predicting, focusing on the use of multimodal data.
  – The first problem we encountered is the preprocessing of massive amounts of EEG data. In order to improve the efficiency of preprocessing, I develop a automatic MATLAB program based on EEGLAB's functions.
  – Recently I am comparing my code with AutoMagic toolbox to achieve better preprocessing results.

- **Pedestrian Detection and Re-identification** *Oct. 2023 - May 2024*
  Sun Yat-sen University **Xiaohua Xie's Lab**
  – My main responsibility was to modify the C++ code framework for the camera detection module, using full-body bounding boxes detection. Adapted from face detection, the new model is aimed to maximize the accuracy of identity recognition with head-shoulder data, protecting people's privacy.
  – I worked with RKNN-Toolkit to update the code, and actively participated in the teamwork using Git and GitHub. Additionally, I learned the fundamentals of modern AI for the first time, and mastered the deployment of YOLO-based models with pytorch.
  – This experience improved my coding ability in computer vision, enhanced my understanding of deep learning workflows, and inspired my research interest.

Skills

- **Programming Languages**: C/C++, Python
- **English Proficiency**: TOEFL: 94
- **Tools**: Tensorflow, Pytorch, EEGLAB

Courses Taken

- **Mathematics**: Calculus, Linear Algebra, Discrete Mathematics, Probability and Mathematical Statistics
- **Computer Science**: Programming, Digital Logic Circuits, Computer Architecture, Data Structures and Algorithms, Signals and Systems, Operating Systems

Honors&Awards

- **Sun Yat-sen University Excellent Student Scholarship** *Sept. 2022 - Jun. 2023/Sept. 2023 - Jun. 2024*
  Third Prize, twice School of Computer Science and Engineering
- **Second Prize in Summer School** *Aug. 4 2024 - Aug. 11 2024*
  in CIBR-PKU-Tsinghua IDG McGovern Lab Joint Summer School of Cognitive Neuroscience Chinese Institute for Brain Research

Extracurricular Activities

- **Member**, Microsoft Student Club *since Oct. 2022*
- **Member**, Baseball and Softball Club of Sun Yat-sen University *since Jul. 2023*