JIE XING

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Education

Shanghai University   **Sep. 2020 – Jun. 2024(Expected)**
Information and Computing Sciences   GPA:86.15/100   *Shanghai, China*

Shanghai Jiao Tong University   **Feb. 2022 – Jun. 2024(Expected)**
Wise Information Technology of Medical (Minor)   *Shanghai, China*

Research Interest

Recently my research interest lies in **Bioinformatics** and **Medical Image Processing**. The former needs more mathematical skills and the latter is more practical, both of which I am happy to explore.

I am always willing to learn more about the field of **Applied Mathematics** and **Artificial Intelligence** with great enthusiasm. Currently, I am looking for overlapping interests between medical engineering and information technology, especially with the help of **machine learning**, and trying to find a balance between theoretical research and applied research.

Experience

Mathematical Contest in Modeling   **Jau. 2022 – Sep. 2022**
Leader / Modeler

- 2022 Mathematical Contest in Modeling, MCM/ICM
  ·Used the **Logistics model** to simulate the growth of forest area and the **time series model** to predict the forest area after ten years of the model to provide forest managers with optimal management plans.
  ·Article *Harvest or Conserve? A Forest Management Plan Based on Multiple Dynamic Strategy* was awarded **Honorable Mention**, top **21%**.
- 2022 Shanghai University Mathematical Contest in Modeling
  ·Improved and optimized **SEIR** epidemic model for healthcare in Shanghai. And **forecast** the development of epidemic situation and put forward suggestions for economic development.
  ·The article won the first place in Shanghai University, top **1/50**.
- 2022 China Undergraduate Mathematical Contest in , CUMCM
  ·Built a **PCA** model for data dimensionality reduction and used the **Fisher Linear Discriminant** to classify samples and judge the type.

Team *SRM*, Shanghai University   **Oct. 2021 – Aug. 2022**
Member of Standard Robot   *DJ-Innovations*

- As a member of SHU Robomaster Team *SRM*, I assisted in development of the *standard* robot and the assembly.

Med-X Innovation Program, Shanghai Jiao Tong University   **Aug. 2022 – Present**
Member

- Based on the patient's functional magnetic resonance data (fMRI), extract feature information and build a **machine learning model** to mine biomarkers that are highly correlated with sleep and Atypical Depression subtypes.

Awards and Honors

- 2021 Scholarship for Second Class
- 2021 Scholarship for National Encouragement Scholarship
- 2021 Scholarship for Innovation
- 2021 Outstanding Student
- 2022 Honorable Mention for Interdisciplinary Contest In Modeling (Question E)
- 2022 Third prize for the 21st National Undergraduate Robot Competition (RoboMaster 2022)

Technical Skills

Languages: Python, MATLAB, C, LaTeX
English: CET4
Sports: Basketball, Run(4th in the 200m)