Ziyang Xiong

xziyang@umich.edu ● 734-210-3298 ● Ann Arbor, MI

EDUCATION

University of Michigan   **Ann Arbor, MI**
Bachelor of Data Science   *April 2025*
- Coursework: Data Mining and Statistical Learning, Computational Methods in Statistics and Data Science, Data Structures and Algorithms

Shanghai Jiaotong University   **Shanghai, China**
Bachelor of Electronic and Computer Engineering   *August 2025*
- GPA: 3.65/4.00

WORK EXPERIENCE

Hubei Communications Services Company   Wuhan, China
Technical development programmer   2022.12-2023.02
- Designed a cloud-based fusion platform for the collection and integration of user device fault data
- Automatically analyzed, consolidated, and categorized diverse fault information, making determinations and forward pertinent data to respective departments
- Instituted an automated, real-time data monitoring system for daily streams, generating the daily report

Shanghai Jiaotong University   Shanghai, China
TA of VG 100   2023.05-2023.08
- Assist professor and provide guidance to students as a teaching team including offer review class, set and grade homework.
- Conduct weekly office hours to help students with engineering problems and academic writing.

PROJECT EXPERIENCE

Shanghai Jiaotong University   Shanghai, China
Scientific epidemic prevention and control decisions based on mobile data   2022.08-2023.5
- Research on human movement behavior modeling and prediction algorithms, simulating the dynamics propagation of the coronavirus outbreak in Shanghai and developing agent simulation models supporting tens of millions of population.
- Integrated infectious disease transmission models to support different intervention measures, visualizing and in-depth analysis of epidemic outbreaks outcomes.
- Refined the model with mobile data and provided support for large-scale urban scientific epidemic prevention.

University of Michigan   Ann Arbor, U.S.
Predicting Depression Condition: Integrating Biochemical and Socioeconomic Indicators   2023.10-present
- Collect and pre-process all kinds of data including population depression, various biochemical indicators (various proteins, hormones), socioeconomic factors (education, income), etc.
- Use various methods, including oversampling, lasso regularization, random forest, to construct a suitable biochemical prediction model of depression.
- Use and compare all kinds of methods, including bootstrap,SVM,Logistic Regression,KNN and so on, to determine the influence of socioeconomic factors on depression.

SKILLS

Computer: Excel, LATEX, Markdown, SQL, C++, C, MATLAB, Python, R, Verilog, Pr
Languages: Chinese as mother tongue, fluent English, entry-level German

AWARDS

The Cheng Family Scholarship   June 2023
The John Wu & Jane Sun Sunshine Scholarship   October 2022