

JIAZHI HE

Phone: (+1) 412-330-9586 ◊ Email: jiazhi.he@pitt.edu

<https://he-jiazhi.github.io/>

Department of Statistics ◊ 1825 Wesley W. Posvar Hall ◊ Pittsburgh, PA, 15213

EDUCATION

University of Pittsburgh

Ph.D. in Statistics

Aug 2023 - Present

University of Science and Technology of China (USTC)

B.S. in Mathematics and Applied Mathematics

Sep 2019 - Jul 2023

RESEARCH INTERESTS

I have broad research interests in methodology and theory in high-dimensional statistical inference, nonparametric density estimation, statistical machine learning and statistical applications of genomics and bioinformatics, to establish reliable, powerful, and interpretable solutions to wide real-world problems.

SELECTED PROJECTS

- **Analysis of HIV Drug Resistance Data**, University of Pittsburgh *Dec 2023*
Analyzed the data set, publicly available from the Stanford HIV Drug Resistance Database, to determine which mutations of the Human Immunodeficiency Virus Type 1 (HIV-1) are associated with drug resistance.
- **Optimization Algorithms Course Project**, USTC *May 2022*
Established the model of an Assignment Problem and obtained the optimal solution using Ortools on Python; Modeled and solved a Traveling Salesman Problem based on optimization software Gurobi and implemented Branch&Cut algorithms; Compared the effect of Lazy Cut and User Cut on the solution rate.

SKILLS

Programming Languages and Frameworks

C, Python, R, L^AT_EX, Mathematica, Matlab

Languages

Mandarin (Native Speaker), English (Fluent), German (College German Band 4)

GRE General Test: 324 = Verbal (155)+Quantitative (169)+ Analytical Writing (3.5)

SELECTED AWARDS AND SCHOLARSHIPS

- **Outstanding Volunteer Award**, USTC *2021*
- **Outstanding Student Scholarship, Silver Award**, USTC *2020*
Second-class departmental honor, winning rate < 10%.
- **National High School Mathematics League, Second Prize in Anhui Province** *2017*

TEACHING

Teaching Assistant at University of Pittsburgh

- STAT 1201/2200: Applied Nonparametric Statistics

Fall 2023

- STAT 0800: Statistics in the Modern World

Fall 2023

Teaching Assistant at USTC

- MATH1009: Linear Algebra B1

Spring 2022

- MATH3005: Mathematical Statistics

Fall 2022