Guangyu Li

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EDUCATION

University of Science and Technology of China June 2025
B.S. Statistic *Current GPA: 3.49/4.30*

COURSEWORK

Average Grade: 85.32(last semester: 3.89 (90.96))
Core Courses: Time Series Analysis(4.3), Regression Analysis(4.0), Multivariate Analysis(4.3),
Complex Analysis(4.0), Nonparametric Statistic(4.3), Functional Analysis(3.7) .etc
Awards: Outstanding Student Scholarship, Sep.2021-2024

SKILLS

Languages: C, Python, R, LaTeX, Matlab
Tools: Git/GitHub, VS Code, Rstudio

RESEARCH EXPERIENCE / PROJECTS

MCMC Sampling | *Python* July. - Now. 2024
- Intern Project, supervised by Prof. Ruqi Zhang from Purdue University
- Design a novel Langevin-like proposal for sampling from discrete distribution
- Learned sampling from high-dimension distribution especially discrete data

Long read Clustering | *Python* June. - Now. 2024
- Intern Project, supervised by Prof. Zhigang Yao from National University of Singapore
- Investigate applications for RNA-Seq data, especially Long-read sequence data
- Benchmark the cluster methods on Long-read sequence data

Book Recommendation System | *VS Code, Python* May. - July. 2024
- Team Member, Course Project for Deep Learning, A^+
- Wrote a report about the effect of different clustering methods on the Minst data set
- Data Reduction and Visualization

Bot Detection | *Git, VS Code* Feb. 2024
- Independent Researcher, advised by Prof. Defu Lian from USTC, Course Project for Machine Learning, A^-
- Developed a Classifier to detect Bot in Twitter based on multiple classification methods
- Learned how to use ML methods to accomplish classification tasks

Rate Forecast | *R, VS Code* Sep. 2023 – Jan. 2023
- Team Member, Course Project for Time Series Analysis, A^+
- Developed multiple models to predict the exchange rate between dollar and pound
- Based on the statistical methods: ARMA, STAR, TMA and LSTM

Music trends | *R* Apr. 2023
- Team Leader, Course Project for Applied statistical software, A
- Collected pop music for nearly 20 years and Analysis their characteristics
- Built a simple interactive web to display the report based on R-shiny

EXPERIENCE

Student Union of USTC | *Member* Sep.2021 – Sep.2022
Responsible for the writing of relevant documents and part of the publicity work

Official Media Center of USTC | *Member* Oct.2021 – Present
Logistics work