

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

Sparse Logistic Regression Optimization | *VS Code, Python, Matlab*

May. 2024

- Independent Researcher, Course Project for Optimization Algorithms, A^-
- Learned the primary optimization algorithms
- Implement and compare two optimization algorithms, Proximal Gradient Method and FISTA

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

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 | *Leader*

Oct.2021 – Present

Responsible for the daily work in office