

# Guangyu Li

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## EDUCATION

**University of Science and Technology of China**

June 2025

*B.S. Statistics*

*Current GPA: 3.51/4.30*

## 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), Operations Research(4.0).etc

**Awards:** Outstanding Student Scholarship, Sep. 2021-2024

## SKILLS

**Languages:** C, Python, R,  $\text{\LaTeX}$ , 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*

May. - Nov. 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