

Guangyu Li

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EDUCATION

University of Science and Technology of China	June 2025
<i>B.S. Statistics</i>	
University of Science and Technology of China	June 2026
<i>Research Assistant</i>	

COURSEWORK

Last two semesters: 3.78(89.34)

Core Courses: Time Series Analysis(4.3), Regression Analysis(4.0), Multivariate Analysis(4.3), Nonparametric Statistic(4.3), Operations Research(4.0)

Awards: Outstanding Student Scholarship, Sep. 2021-2024

SKILLS

Languages: C, Python, R, L^AT_EX, Matlab

Tools: Git/GitHub, VS Code, Rstudio, LLMs

PUBLICATION

Li Guangyu et al., "Accelerating Discrete Langevin Samplers via Continuous Intermediates"
Submitted to Transactions on Machine Learning Research (TMLR)

RESEARCH EXPERIENCE / PROJECTS

In-Context Learning Python	Jun. - Now. 2025
<ul style="list-style-type: none"> Research Assistant, supervised by Prof. Canhong Wen from USTC Learning the proof and research on the generalization of (shallow) Transformer architecture Participate in the seminar on the theory of ICL in large language model 	
AI Healthcare Python, Horos	May. - Now. 2025
<ul style="list-style-type: none"> Intern Project, supervised by Dr. Joyce Wang from Stanford University Utilize foundation models to assist diagnosis by medical data (MRI, CCTA, etc) Learned the basic paradigm of Computational Pathology 	
MCMC Sampling Python	Jul. 2024- Mar. 2025
<ul style="list-style-type: none"> Intern Project, supervised by Prof. Ruqi Zhang from Purdue University Design Continuous-exploratory Discrete Langevin Sampler for discrete distributions Learned sampling from high-dimension distribution especially discrete data 	
Long Read Clustering Python, C	May. - Nov. 2024
<ul style="list-style-type: none"> 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
<ul style="list-style-type: none"> Independent Researcher, Course Project for Optimization Algorithms, A- Learned the primary optimization algorithms Implement and compare two optimization algorithms, Proximal Gradient Method and FISTA 	
Bot Detection Git, VS Code	Feb. 2024
<ul style="list-style-type: none"> Independent Researcher, advised by Prof. Defu Lian from USTC, Course Project for Machine Learning, A- Developed a Classifier to detect Bots in Twitter based on multiple classification methods Learned how to use ML methods to accomplish classification tasks 	

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. 2023 – Jun. 2025

Responsible for the daily work in office