RUISHAN LIN

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EDUCATION

PhD, Statistical Science, George Mason University   GPA: 3.67 (Passed Qual. Exams)   2021 - present
Co-advisors: Drs. Jonathan Auerbach and David Kepplinger
Topics: Robust Methodologies for crowd-sourced data, Bayesian Inference of Splines.
Bachelor of Arts, Mathematics, New York University   GPA: 3.74 (cum laude), minor in German   2016 - 2020

QUALIFICATIONS

- Daily use of R, SAS, and MATLAB throughout academic training and within work and internship settings.
- Coursework in Biostatistics and experience working with cross-functional teams of researchers.
- Proficient in analysis and communication of data in reports and RShiny applications.
- Strong passion and interest in working in the pharmaceutical industry after graduation.

SKILLS

Statistical Skills   Robust Statistics, Bayesian Inference, Optimization, Causal Inference, Biostat methods
Programming Language Python, C++, R (R Shiny), SAS, MATLAB, SQL, HTML

EXPERIENCE

Graduate Research Assistant   May 2022 - present
George Mason University, Statistics Department   *Fairfax, VA*

- Develop efficient methods to estimate the arrival of spring based on crowd-sourced ecological observational data through Bayesian sampling via Stan.
- Build non-parametric statistical models based on bivariate splines to tackle missing data.

Machine Learning Engineer Intern   Feb. 2020 - Apr. 2021
HiThink Financial Services Inc.   *New York, NY*

- Developed chatbots that provided real-time financial information with plots and charts using tensorflow.
- Established data pipelines through a continuous process of scraping, transformation, and cleaning in Python.
- Achieved 35% growth in active users of the company's trading bot using Python, Javascript, and SQL.

Data Science Intern   May 2019 - Aug. 2019
10JQKA   *Hangzhou, China*

- Identified the existing issues with the company's resource allocation strategy and improved computing efficiency of the dockers by 20%.
- Analyzed the A/B test results using statistical methods to provide insights on content optimization and to target high-conversion users.

PROJECTS

Missing Data Handling for Phase III Clinical Trials | *R (RShiny), SAS*   2022

- Conducted large sample simulations to compare the results of different imputation methods under various missing data scenarios and drew conclusions on how different missing data handling approaches affect the results.
- Built an R Shiny App to demonstrate the simulation results.
- Presented the project on the **Statistics in Pharmaceuticals (SIP 2023) Conference**.

Optimization for Neural Network | *R*   2022
Compared the performances of neural networks with variants of Stochastic Gradient Descent and optimized the code for regression and classification.

Stock News Catcher | *Web Crawler, Python, NLP*   2021
Built a chatbot and implemented it on Telegram to provide users with a personalized news feed.

[Mathematical Modeling and Simulation](#) | *MATLAB* 2020

Modeled physical, biological and economical processes, with successful participation in the [Mathematical and Interdisciplinary Contest in Modeling](#)

LEADERSHIP

Vice President, Statistics Graduate Student Association, GMU Sept. 2021 - present
Site Ambassador, New York University Berlin campus Jan. 2019 - May 2019

CERTIFICATE

Exam P: Probability, Society of Actuaries 2021