RUISHAN LIN

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EDUCATION

PhD, Statistical Science, George Mason UniversityGPA: 3.67 (Passed Qual. Exams)2021 - presentCo-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 and project experience with SAS, Python, and MATLAB throughout academic training and within work and internship settings.
- Skilled in a wide spectrum of data science methodologies, encompassing both traditional and cutting-edge techniques such as AI/ML, web scraping, and Bayesian modeling.
- Proficient in analysis and communication of data in reports, visualizations, and RShiny applications.
- Capable of taking the initiative to lead projects autonomously while effectively collaborating with diverse stakeholders.

SKILLS

Statistical SkillsRobust Statistics, Bayesian Inference, Optimization, Causal Inference, Biostat methodsProgramming LanguagePython, C++, R (R Shiny), SAS, MATLAB, SQL, HTML, Taubleau, Microsoft Office

EXPERIENCES

Graduate Research Assistant

George Mason University, Statistics Department

- 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 and copulas to allow information borrowing across locations.

Machine Learning Engineer Intern

HiThink Financial Services Inc.

- 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

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- 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

- 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 $\mid R$

Compared the performances of neural networks with variants of Stochastic Gradient Descent and optimized the code for regression and classification.

May 2019 - Aug. 2019 Hanqzhou, China

Feb. 2020 - Apr. 2021

New York, NY

Hangznou, China

May 2022 - present

Fairfax, VA

2022

2022

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

Mathematical Modeling and Simulation | MATLAB

Modeled physical, biological and economical processes, and obtained successful participation award in the Mathematical and Interdisciplinary Contest in Modeling

LEADERSHIP

Vice President, Statistics Graduate Student Association, GMU Site Ambassador, New York University Berlin campus CERTIFICATE	Sept. 2021 - present Jan. 2019 - May 2019
Exam P: Probability, Society of Actuaries	2021
AWARDS	
Statistics in Pharmaceuticals (SIP) 2023 Scholarship, University of Connecticut	2023
Graduate Research Assistantship, George Mason University	2022 - 2023

Graduate Research Assistantship, George Mason University Graduate Teaching Assistantship, George Mason University 2020

2021