

Ryley Elizabeth Hemphill

404-769-6792 • rleyhemphill@gmail.com • www.linkedin.com/in/rleyhemphill

EDUCATION

University of Georgia | Bachelor of Science in Statistics | Athens GA

- 3.93 GPA/Presidential Scholar/Dean's List/Zell Miller Scholarship
 - Data Science Certificate
 - Relevant Courses: Calculus, Linear Algebra, Experimental Designs, Multiple Linear Regression Analysis, Modern Statistical Programming, Math Statistics (I&2), Time Series analysis, Sampling and Surveying Methods, Risk Management and Insurance, Data Science
-

PROJECTS

Coweeta Hydrologic Laboratory Precipitation Analysis (Capstone)

- Collaborated with the U.S. Forest Service Center for Forest Watershed Research to analyze 40+ years of precipitation chemistry data.
- Cleaned and analyzed over 11,000 observations of multiple chemical analytes to identify long-term trends in the chemical composition of acid rain.

Mall Customer Segmentation using K-means

- Applied K-means clustering to segment mall customers into 5 different behavioral groups based on spending and demographic patterns.
- Provided more information about the mall's customers that can be used to design targeted marketing strategies and improve sales.

ETS Forecasting of Airline Complaints

- Uses and explains how ETS forecasting works using R.
- Demonstrates ETS models by forecasting future trends of airline complaints.

Rshiny Spotify Analytics App

- Built an interactive RShiny web application to analyze 2023 Spotify song data.
- Implemented dynamic filtering, BPM distribution visualizations by key/mode, and color palettes to improve insights and provide aesthetics for music trends.

Health Insurance Cost Prediction Using Regression

- Performed model selections test on demographic predictors.
 - Improved prediction accuracy of health insurance charges by performing variable selection, identifying statistically significant variables and an appropriate statistical model.
-

WORK EXPERIENCE

Athens Soap Company, Athens GA | July 2023 - November 2024

- Worked with a team to meet customer expectations and ensure smooth operations, assisted in monitoring inventory levels and managing stock, and ensured a clean and operational workplace for the customers and employees to enjoy.
-

ACTIVITIES AND ORGANIZATIONS

American Statistical Association Student Chapter at UGA | Founder/President

- Built a community for students interested in statistics, data science, and computer science.
- Lead chapter operations including recruiting members and board members, organizing meetings, and coordinating events with guest speakers.
- Managed chapter growth, social media, and communication with members to support participation in ASA events, meetings, and professional events.

University Union | Member/Volunteer

Actuaries at UGA | Member

SKILLS

Programming / Tools: Microsoft office, G-suite, R, Python, Latex, MATLAB, Java, SQL

Statistical / Collaborative: Regression Analysis, Time Series Analysis, Data Cleaning, Customer Service, Team Collaboration, Problem Solving, Statistical Modeling