RONALD E. HALL JR.

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DATA ANALYST

Selected Accomplishments

- Recent graduate from Colorado State Univeristy with a Masters in Applied Statistics with coursework in statistical modelling, regression analysis, experimental design and analysis, Bayesian modelling and analysis, data mining, and machine learning, model selection methods and statistical modelling techniques including Baysian techniques, and simulation methods including Monte Carlo simulation methods and Gibbs sampling.
- Experienced in a wide range of data from environmental projects, special education data, and healthcare settlement data.
- Maintained, performed analysis, and conducted quality assurance on data for over 700 different toxicity tests from the 2010 Deepwater Horizon oil spill. Database and analyses were cited in numerous publications and presentations nationwide to inform agencies of the damage.
- Trained and managed teams of data entry staff in order to quickly and efficiently enter data manually. Developed methods to automate the data entry process that reduced data entry time by approximately 50%.

Technical Skills

R	STATA	SAS
S-plus	SQL	SalesForce

Professional Experience

Data Manager
Robbins Gioia, LLC, Alexandria VA   *October 2019 – Present*
- Help Air Force team with Product Management for contract system modernization
- Query Jira and use EazyBI to pull reports and examine productivity of development staff.
- Develop user stories for the development staff to help improve data quality and modernize the system.

Data Analyst
Providio MediSolutions / Archer Systems, Denver, CO   *February 2018 – October 2019*
- Built and managed Excel databases to organize and track payment information.
- Developed data processing procedures and protocols to ensure timely payments to lien companies and clients.
- Implemented and maintained QA/QC procedures to verify data accuracy.
- Reconciled payment information and bank statements to determine accurate account records.

Data Analyst
Data Driven Enterprises, Northglenn, CO   *September 2017 – January 2018*
- Used SAS to create reports for data visualization to inform schools of results from different program evaluations.
- Performed analysis and produced reports to provide feedback from special education program evaluations.
- Developed an R-shiny application for school districts to visualize the results of program evaluations.

Associate Programmer Analyst | Associate | Research Associate
Abt Associates formerly Status Consulting, Boulder, CO   *December 2010 – April 2017*
- Performed statistical modeling, analysis, database management, data processing, and quality control/quality assurance for government contracts from the Environmental Protection Agency, US Army Corp of Engineers Institute for Water Resources, National Forest Service and the Centers for Disease Control.

Statistical Analysis:
- Developed a Qlik Sense application for the EPA to visualize Toxic Release Inventory data.

- Designed R code to run different types of regression analyses and summarize data for the toxicity data from the Deepwater Horizon oil spill so that the information could be used for publications and presentations.
- Produced summary statistics and performed statistical tests including ANOVA, T-tests, F-tests, Z-scores and Chi-square tests in order to test data validity.
- Utilized statistical modeling techniques to forecast the economic impact of temperature change.
- Examined budget data and aided in the process of trying to determine the key elements that were used when the importance of the projects were ranked. The information was then used in a regression tree analysis in order to determine if a pattern existed.

Data Processing/Database Management:

- Extracted, managed and queried data in Microsoft Access and SQL.
- Used R to create, manage and QA/QC databases.
- Developed procedures and protocols, trained and managed teams of data entry staff, and developed methods to automate data entry processes.
- Created reconciliation tables, QA/QC tables, developed and maintained analysis databases, and combined data from numerous sources to be used in analysis.

Quality Control Development and Implementation:

- Conducted QC on key analytical tools, and complex Excel tools and formulas.
- Used tools such as Microsoft Excel, STATA, R, and S-plus to perform quality assurance/quality control (QA/QC), and build analysis databases, to ensure that each of the datasets met the highest possible standard.
- Designed and developed methods to assist in performing QA/QC processes.

Big Data:

- Used SAS to combine TRI data and National Emissions Inventory (NEI) data and produce summary statistics for the NEI facilities that released TRI chemicals.
- Utilized STATA and R to pull and combine information from large data sets including data from the census bureau, the national forest service, and the center for disease control.

Education

Masters Applied Statistics, Colorado State University, Fort Collins, CO

Graduate Certificate, Theory and Applications of Regression Models, Colorado State University, Fort Collins, CO

Bachelors of Science, Mathematics and Statistics, Bloomsburg University of Pennsylvania, Bloomsburg, PA