

# Carla Rudder

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**Portfolio:** crud27.github.io/

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## Profile

Analytically minded **data scientist** with a Ph.D. in Mathematics Education and a strong foundation in quantitative and qualitative research methodologies. Proven track record in extracting meaningful insights from complex data sets and leading cross-functional teams. Proficient in Python, SQL, and data visualization tools. Passionate about leveraging data to drive informed business decisions.

## Skills

Python	SQL	BigQuery	Project Management
Tableau	ARIMA	Machine Learning	R
PowerBI	A/B Testing	Statistics	

## Data Science Projects

**Customer Loan Default Prediction** - <https://tinyurl.com/loandefmd-cr>

- Built a machine learning model using Python to forecast default predictors with 80% accuracy.

**Tech Stack:** Python, Scikit-Learn, Matplotlib, Seaborn

**Food Delivery Service Business Case** - <https://tinyurl.com/foodmd-cr>

- Studied customer ordering history using Python to discover ways to increase revenue and decrease delivery time.

**Tech Stack:** Python, Pandas, Numpy, Matplotlib, Seaborn

## Work Experience

2019 – 2019 DURHAM/ REMOTE, UNITED STATES

### Data Analyst / Researcher (Consultant)

#### Research Triangle International

- Directed in-depth analysis of survey data utilizing statistical techniques, uncovering three pivotal factors that substantially influenced teacher effectiveness, showcasing a correlation coefficient of 0.75 or higher.
- Fostered seamless collaboration with diverse cross-functional teams, facilitating the identification of analysis limitations and offering strategic recommendations for subsequent investigation, yielding a remarkable 30% enhancement in decision-making processes.

**Tech Stack:** Excel, XLStat **Report:** <https://tinyurl.com/survprt-cr>

2017 – 2018 DURHAM/ REMOTE, UNITED STATES

### Data Analyst / Researcher (Consultant)

#### Research Triangle International

- Optimized the data collection and analysis process, resulting in a 30% reduction in research time while upholding exceptional quality standards.
- Conducted comprehensive analysis of over 75 articles and data sets, successfully identifying crucial gaps and providing actionable recommendations to enhance efficiency and productivity.

**Report:** <https://tinyurl.com/5consurv-cr>

09/2014 – PRESENT ABU DHABI, UNITED ARAB EMIRATES

### Associate Professor (Mathematics)

#### Rabdan Academy

- Leveraged Python to develop captivating visual representations, effectively highlighting key facets that positively influenced student achievement.
- Employed competitor analysis and market trends to strategically shape university initiatives, fostering a 25% surge in innovation.

## Work Experience

- Conducted detailed analysis of historical data, evaluating the implications of new metrics, thereby achieving a notable 15% rise in pass rates.

**Tech Stack:** Python, Pandas, Numpy, Matplotlib, Seaborn

08/2008 – 08/2014 ABU DHABI, UNITED ARAB EMIRATES

### Department Head / Assistant Professor (Mathematics)

#### Zayed University

- Guided a 35-member team to increase productivity by 20% through cohesive organizational strategies.
- Furthered inter-departmental collaboration by 10% by facilitating partnerships for multi-sector integration.
- Designed and communicated mathematics with a 96% positive student feedback score over seven semesters.

## Education

05/2023 – 08/2023 BOSTON, MA / REMOTE, UNITED STATES

### Applied Data Science and Machine Learning | Post Grad Certificate

#### Massachusetts Institute of Technology - PE

**Tech Stack:** Python, Pandas, Numpy, Matplotlib, Seaborn, Scikit-Learn, Hadoop

**Modules:** Data Analysis & Visualization, Machine Learning, Deep Learning, Recommendation Systems, Big Data Analytics

TALLAHASSEE, FL, UNITED STATES

### Mathematics Education | MSc | PhD

#### Florida State University

**Relevant Coursework:** Research Methodologies, Statistical Regression, Computational Analysis, Advanced Calculus, Financial Mathematics

RALEIGH, NC, UNITED STATES

### Applied Mathematics | BSc

#### North Carolina State University

## Certificates

01/2023

### IBM Data Science Fundamentals with Python and SQL

#### IBM

<https://tinyurl.com/ibmfnd-cr>

Python programming basics, statistical analysis techniques (hypothesis testing/regression), and relational database fundamentals

**Tech Stack:** Python, SQL, Jupyter Notebooks, R, GitHub, Watson Studio

12/2022

### SQL Basics for Data Science Specialization

#### UC Davis

<https://tinyurl.com/sql-cr>

Assess and create datasets to solve your business questions and problems using SQL and produce an end-to-end pipeline.

**Tech Stack:** SQL, Apache Spark, Delta Lake, Databricks

10/2022

### Google Data Analytics Professional Certification

#### Google

<https://tinyurl.com/gdac-cr>

Cleaned, organized, visualized, and presented big data for analysis.

**Tech Stack:** SQL, R, BigQuery, Tableau.