JESUS RODRIGUEZ

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EDUCATION

University of Nebraska-Lincoln (UNL) Graduation Date-Dec 2025
Bachelor's in Statistics and Data Analytics Lincoln, NE
Minor in Mathematics

RELEVANT EXPERIENCE

UNL Department of Statistics (5 mth) Aug 2025-Dec 2025
Teaching Assistant Lincoln, NE

- **Intro to Mathematical Statistics I - Distribution Theory:**
  - Led weekly recitation sessions to reinforce lecture material and guide students through complex statistical problems
  - Held office hours to provide individualized support, answer student questions, and clarify challenging concepts

The Global Career Accelerator (1 yr) Jan 2025-Dec 2025
Data Analyst and Coding for Data Intern Remote

- **Fall 2025 (SQL and Python):**
  - Conducted data analysis using SQL and Python to extract, filter, and manipulate large datasets
  - Collaborated with a cross-functional, global team to complete analysis tasks
- **Spring 2025 (Excel and Tableau):**
  - Analyzed A/B tests to measure understanding of trends and audience behavior for The Recording Academy in Excel using pivot tables and logical functions such as Xlookup; demonstrated that a website split improved engagement
  - Told a story with data by generating visualizations for Intel's Sustainability team in Tableau utilizing charts and dashboards

University of Texas-Medical Branch (UTMB) (2 mth) June 2025-July 2025
Biostatistics and Data Science Summer Intern Galveston, TX

- Cooperated with biostatisticians, principal investigators, and doctoral researchers to examine clinical burn patient data from TriNetX to better treat burn survivors; ultimately ran a chi-square analysis in R to find an association between patient age and burn size for certain outcomes
- Coded a folder scraping function to extract prevalence test results from over 22,000 CSV files downloaded from TriNetX and manipulated the results for a proper analysis
- Presented research analysis findings, translating statistical tables and charts into clear, actionable insights for both technical and non-technical audiences
- Documented data, methodologies, and interpretation of findings to help author research manuscripts

OTHER WORK EXPERIENCE

York Animal Clinic (7 yr 7 mth) May 2018-Dec 2025
Veterinary Assistant York, NE

- Communicate and partner effectively with veterinarians and veterinary technicians to guarantee thorough understanding of patients' needs
- Adapt quickly to changing priorities, work efficiently under pressure, and collaborate with team members to provide ample care and compassion to both patients and clients
- Support veterinarians during house calls by organizing equipment and managing livestock handling to prevent incidents, allowing the veterinarian to focus fully on patient care and ensuring visits run smoothly

SKILLS

Technical - Statistical modeling (linear/logistic regression, ANOVA), experimental design, power analysis, data management (dplyr, pandas), data visualization (ggplot2, matplotlib), reproducible reporting (Quarto, R Markdown), version control (Git/GitHub), database querying (SQL), webscraping (rvest, APIs, JSON to tabular transformation, PDF data extraction), functional programming (purrr)

Languages and Tools - *expert:* R *proficient:* SAS, Excel, Tableau, Quarto *intermediate:* SQL, Python, Git/Github *beginner:* Shiny

CONSULTANT TRAINING & EXPERIENCE

Statistical Cross-disciplinary Collaboration & Consulting Lab (10 mth) Aug 2024-May 2025

R and SAS Trainee and Assistant Consultant Lincoln, NE

- **Spring 2025 (R and SAS Workshop):**
  - Participated in a statistical analysis workshop using R and SAS, applying hypothesis testing methods such as t-tests and ANOVA, as well as data wrangling and visualization techniques to datasets
  - Completed guided exercises analyzing datasets with R and SAS, reinforcing statistical concepts and data visualization
- **Fall 2024 (Consultant Collaboration):**
  - Supported two graduate consultants on a client-focused mock experiment on crop survival under drought conditions, assisting with data analysis in SAS and contributing to report writing and presentation development
  - Scheduled and engaged in client meetings to align progress and goals, while leveraging mentorship from experienced consultants to strengthen project outcomes

SELECTED DATA ANALYSIS PROJECTS

ClincalTrials.gov Cluster Headache Visualization November 2025

- **List Processing, Data Visualization, and Shiny App Development in R**
  - Retrieved and parsed clinical trial data using the ClinicalTrials.gov API
  - Transformed JSON responses into tidy, analysis ready data frames

A Real World Evaluation of Chronic Outcomes by Burn Size and Age July 2025

- **Analysis in R and Poster Presentation:**
  - Analyzed 22,000 CSV files from TriNetX, containing results from an outcome-prevalence test
  - Wrangled raw data into neatly organized and presentable tables
  - Showcased findings to other biostatisticians, principal investigators, and medical students

(Over)Analysis of Imminent Sharknados May 2025

- **Analysis in R, Research Report, Presentation:**
  - Scraped tornado weather data, shark population data, as well as spatial coastal data from online sources to determine how likely a "sharknado" would occur
  - Recorded methods and results in Quarto to document findings, visualizations, and assumptions
  - Composed a presentation to address conclusions of the analysis

Screencast - Ramen Popularity Analysis May 2024

- **Analysis in R**
  - Analyzed ratings of global ramen brands in order to determine which country had the highest average rated ramen
  - Created graphs and maps of most and least rated brands and flavors

NOTABLE COURSEWORK

Statistical Methods & Design

- **Principles of Statistical Analysis** - Applied statistical inference, hypothesis testing, and model assessment in datasets
- **Principles of Statistical Design I & II** - Designed and evaluated experimental studies using randomized, block, and factorial designs
- **Statistical Modeling I & II** - Built and interpreted generalized linear models, mixed models, and multivariate techniques for complex data
- **Regression Analysis** - Modeled relationships between variables using simple, multiple, and logistic regression techniques

Statistical Computing & Professional Skills

- **Statistical Computing in R and Python I, II, & III** - Developed programming skills for data cleaning, visualization, and webscraping using R and Python
- **Analysis of Messy Data** - Applied modern statistical methods to handle missing data, outliers, and multivariate techiques for complex data
- **Technical Statistician Skills** - Strengethend professional skills in data communications, teamwork, reproducible research, and technical writing
- **Statistical Collaboration** - Sharpened skills needed to consult effectively as a statistician

Mathematical Foundations

- **Calculus I, II, & III** - Mastered concepts in limits, derivatives, integrals, multivariable calculus, and vector calculus
- **Linear Algebra** - Applied matrix operations, eigenvalues, and linear transformations to systems of equations and data analysis
- **Differential Equations** - Solved and interpreted ordinary differential equations