

# JESUS RODRIGUEZ

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## EDUCATION

**University of Nebraska-Lincoln (UNL)**  
Bachelor's in Statistics and Data Analytics  
Minor in Mathematics

Graduation Date-Dec 2025  
Lincoln, NE

## RELEVANT EXPERIENCE

### **UNL Department of Statistics**

*Teaching Assistant*

(3 mth) Aug 2025-Present  
Lincoln, NE

- **Intro to Mathematical Statistics I - Distribution Theory:**

- Lead weekly recitation sessions to reinforce lecture material and guide students through complex statistical problems
- Hold office hours to provide individualized support, answer student questions, and clarify challenging concepts

### **The Global Career Accelerator**

*Data Analyst and Coding for Data Intern*

(10 mth) Jan 2025-Present  
Remote

- **Fall 2025 (SQL and Python):**

- Conduct data analysis using SQL and Python to extract, filter, and manipulate large datasets
- Collaborate 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)**

*Biostatistics and Data Science Summer Intern*

(2 mth) June 2025-July 2025  
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**

*Veterinary Assistant*

(7 yr 6 mth) May 2018-Present  
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

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### Statistical Cross-disciplinary Collaboration & Consulting Lab

(9 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

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### ClinicalTrials.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

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### 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 techniques for complex data
- **Technical Statistician Skills** - Strengthened 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