# 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-Present
*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**                    (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

*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