

Nibia Becerra Santillan

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SKILLS

Data/Research: QA/QC and data validation, sampling design, statistical modeling, regulatory analysis & reporting.

Technical: R, Microsoft Office (Word, Excel, Sharepoint, etc), Python, QGIS, Google Tools, SQL, Tableau

Professional: Technical report writing, client communication, teamwork, stakeholder engagement, time management, fluent in English and Spanish, mentoring

RELEVANT EXPERIENCE

Clean Water Action

Minneapolis, Minnesota

Oct 2025 – Present

Environmental Organizer/ Field Canvasser

- Exceeded daily fundraising goals by up to 250% through effective communication and consistent performance tracking.
- Educated and mobilized hundreds of Minnesotans on environmental policies, strengthening community engagement and Clean Water Action membership.
- Streamlined canvassing operations with peers and managers by maintaining accurate records and optimizing daily field logistics.

Hack the Gap

Saint Paul, Minnesota

Sep 2025 – Nov 2025

Data Analyst Trainee

- Developing proficiency in Excel, R (tidyverse, ggplot2), Python (pandas), SQL, Tableau, and Google Workspace tools through hands-on labs and team-based projects obtaining the Google Data Analytics Certificate (180 hours of instruction)
- Leading two capstone projects using R and Python to clean, analyze, and visualize data, practicing end-to-end workflow from exploratory data analysis to stakeholder-ready dashboards.

EHS Support

(Remote) Philadelphia, Pennsylvania

Jun 2025 – Aug 2025

Environmental Consulting Intern

- Explored 20+ years of water and sediment records to identify contaminant hotspots by chemical, highlighting exceedances of EPA Regional Screening Levels (RSLs) and potential areas for additional site investigation.
- Synthesized 200+ historical site investigations into a Preliminary Assessment report, documenting exposure pathways and relevant regulatory standards to support risk characterization.
- Delivered the PA in staged check-ins and a final comprehensive report; presented findings to diverse stakeholders including senior data management, principal consultants, and executive leadership, demonstrating ability to translate complex data into actionable compliance insights.

US Forest Service - Tropical Response Alternate Climate Experiment

Luquillo, Puerto Rico

May 2024 – Aug 2024

Biogeochemistry Undergraduate Research Fellow

- Designed and implemented a 3-month soil incubation experiment simulating altered environmental conditions (warming and moisture treatments), generating 300+ greenhouse gas flux measurements (CO₂, CH₄).
- Processed 750+ raw datasets containing high-frequency CO₂/CH₄ concentration measurements (2 Hz, 2 min runs).
- Collected and documented soil and gas flux data using rigorous protocols; authored 3 Standard Operating Procedures (SOPs) to standardize sampling and lab workflows, ensuring reproducibility and high-quality datasets.

PROJECT HIGHLIGHTS

Honors Thesis – Soil Greenhouse Gas Fluxes in Tropical Forests

August 2024 – May 2025

- Applied Li-COR equations, vessel volume corrections, and custom cleaning routines to calculate soil gas fluxes.
- Conducted ANOVA, mixed-effects modeling, and post-hoc tests (emmeans) in R to evaluate treatment effects; produced publication-quality ggplot2 visualizations for a 50+ page honors thesis.

Brazil Tree Cover Loss Shiny Dashboard (2000–2023)

Jan 2025 – May 2025

- Built and deployed an R Shiny dashboard to explore two decades of tree cover loss across Brazilian regions, merging geospatial shapefiles with political boundaries and creating interactive ggplot2 visualizations for trend analysis.

Text Mining & Topic Modeling of Venezuelan-Colombian News Corpus

Sep 2024 – Dec 2024

- Built the data extraction and preprocessing pipeline for 5,061 Spanish news articles, including PDF-to-text conversion, regex-based cleaning, and tokenization, enabling downstream LDA topic modeling and thematic analysis using R.

EDUCATION

Macalester College

B.A. in Biology and Statistics