

Jonathan Muniz

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SUMMARY

Data Analyst and Biostatistics M.S. candidate with 5+ years of experience working with regulated laboratories, operational, and health-related datasets. Skilled in SQL, Python, R, Power BI, Tableau, and Excel for data cleaning, statistical analysis, KPI reporting, geospatial visualization, and dashboard development. Experienced in GMP/FDA-regulated environments, sensitive data handling, data quality review, and communicating analytical findings to technical and non-technical stakeholders.

SKILLS

Programming and Statistical Analysis: *SQL, Python, R, Excel*, Statistical modeling, Regression, Descriptive Analysis, Diagnostic Analysis, Predictive Analysis, Cohort Analysis, Hypothesis testing

SQL and Data Management: *MySQL, BigQuery*, CTEs, joins, window functions, data validation, data cleaning, data quality checks, LIMS data, database linking, dataset reconciliation

Python: *Pandas, NumPy, Matplotlib, Plotly, Jupyter*, Data cleaning, Data visualization, Exploratory Data Analysis

R: *tidyverse dplyr, tidyr, ggplot2, R Markdown, Shiny*, Geospatial mapping, Public health data visualization

Business Intelligence and Dashboards: *Power BI, Tableau, Power Query*, DAX, Excel PivotTables, dashboard prototyping, KPI reporting, stakeholder reports

Geospatial Analytics: Tableau maps, Power BI maps, ZIP-code mapping, country-level interactive maps, R-based policy mapping

Regulated Data and Quality Systems: GMP, FDA, ALCOA+, data integrity, QC documentation, TrackWise, Qualio, Empower, Analytical data review

Laboratory and Scientific Data: *HPLC, ICP-MS, GC-MS instrumentation* Chromatographic data, Calibration data, System suitability, Delivered Dose Uniformity, Method validation, R&D study data

Communication: Technical reporting, stakeholder communication, cross-functional collaboration, bilingual English/Spanish

WORK EXPERIENCE

Transpire Bio

Weston, Florida

Scientist I

December 2025 - Present

- Generate, review, and document analytical laboratory data in a GMP/FDA-regulated pharmaceutical R&D environment supporting generic medication development, release studies, and IVBE-related studies.
- Analyze HPLC chromatographic data using Empower, Agilent systems, and Excel to evaluate delivered dose uniformity, calibration performance, system suitability, and sample-level results.
- Process an average of 66 samples per day depending on study requirements while maintaining data accuracy, documentation quality, and turnaround expectations.
- Improved Excel-based data entry sheets used by scientists, streamlining data capture and improving consistency across study documentation.

Kaycha Labs

Davie, Florida

Lab Lead Coordinator

January 2022 - December 2025

- Built SQL, Excel, and Power BI reports to monitor sample throughput, turnaround time, instrument utilization, repeat testing, and operational bottlenecks.
- Automated weekly KPI reporting for capacity, SLA adherence, QA trends, anomaly detection, and leadership review.
- Reconciled LIMS data, calibration records, SOP versioning, and quality documentation to support ISO 17025 audit readiness and data integrity requirements.
- Trained 35+ staff on data entry quality, documentation practices, and self-service reporting workflows, reducing avoidable data errors and ad-hoc reporting requests

Kaycha Labs

Davie, Florida

Lab Analyst III

January 2021 – January 2022

- Built Excel/Power Query pipelines to clean multi-instrument outputs; lowered manual prep time **30%**.
- Authored SOP updates and validated methods; improved data integrity and reduced re-runs.
- Processed and analyzed over 100 samples daily with a 98% accuracy rate, ensuring timely and reliable data for further analysis.
- Assisted in data collection and preparation, supporting the lab's analytical workflows
- Assisted in the development and enforcement of lab safety regulations, ensuring a safe working environment.

PROJECTS

Hospital Readmission Analysis - R

- Conducted full-cycle analysis of a **25,000-observation public health dataset**, including data cleaning, exploratory analysis, and linear probability modeling to identify predictors of hospital readmission in diabetic patients
- Performed **descriptive and diagnostic analysis** across patient, utilization, and clinical management variables; found prior inpatient visits to be the dominant predictor with an ~8 percentage-point increase in readmission probability per visit
- Produced **9 publication-quality data visualizations** in R (ggplot2) including correlation heatmaps, violin plots, and a coefficient forest plot to communicate surveillance findings to technical and non-technical audiences
- Identified utilization history as the clearest differentiator between readmitted and non-readmitted patients, demonstrating the kind of pattern recognition applicable to overdose surveillance and prevention trend analysis

PFAS Comparative Policy Literature Review - R (ggplot2, sf, gt, dplyr)

- Compiled and **audited a 186-row surveillance-style dataset** (89 threshold instruments + 97 grey literature records) tracking PFAS regulatory activity across all 50 U.S. states, classifying policies by exposure pathway, enforcement status, and jurisdictional level.
- **Built 5 publication-quality geospatial and statistical visualizations in R** including a colorblind-accessible U.S. choropleth map (sf), Cleveland dot plot, and temporal trend analysis; identified an 18-fold range in state drinking water standards and that 84% of all policy instruments emerged post-2020.
- Communicated findings to interdisciplinary audiences via a research poster at the University of Florida, translating complex regulatory data into clear visual narratives for public health professionals and policymakers.

Coffeeking Yelp Analytics - Databricks (Spark SQL, Python, NLP, Tableau/Power BI)

- Ingested **442k** reviews across **6.7k** shops on Databricks; built reusable ELT with Spark SQL and Python for cleaning hours JSON, deduping entities, and deriving ZIP-level rollups.
- Produced **Exploratory Q&A** (hours, underserved ZIPs, sentiment) and a **correlation study**; identified >20 high-density ZIPs with ≤3.5★ and peak 07:00–17:00 operating windows for top-rated shops.

Global Health Indicator Dashboard - Python Shiny

- Developed an interactive Python Shiny dashboard to visualize global health trends for 2010–2020, integrating data from the World Happiness Report, WHO, IHME, and World Bank.
- Performed data cleaning, transformation, and integration for over 100 countries, ensuring accuracy and consistency in health metrics such as happiness scores, depression prevalence, life expectancy, mortality rates, and population size.
- Visualized key insights through dynamic, interactive maps and dropdowns, allowing users to explore country-specific trends with customizable basemap options.
- Built user-friendly tools, including sliders for year selection, enabling exploration of temporal trends in global health indicators
- Published on Shiny: https://jonathanmuuf.shinyapps.io/global_dashboard_pyshiny/

EDUCATION

University of Florida

Master of Science • Biostatistics

Gainesville, Florida

August 2024 – May 2027

Florida International University

Bachelor of Science • Biological Sciences

Minor • Chemistry

Miami, Florida

May 2016 – May 2020

Florida International University

Bachelor of Science • Natural and Applied Sciences

Miami, Florida

May 2016 – May 2020

CERTIFICATIONS

- Google Data Analytics Professional Certificate
- Google AI Essentials
- Power BI PL-300
- AWS Cloud Practitioner