

ASHLEE MARIE PEREZ

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EDUCATION

Florida International University Master's in Public Health: Biostatistics	Miami, Florida
Florida International University Bachelor of Arts: Pre-Veterinary Curriculum	Miami, Florida

Languages - R, RShiny, SAS/SPSS, STATA, SQL

SELECTED PROJECTS

Unveiling the Impact: The COVID-19 Pandemic and its Effect on Hospital Patient Census Across Four Florida Counties

- Automated import of 386 US Centers of Disease Control and Prevention (CDC) Community Profile Reports to calculate PCR-RT Positivity Rate for COVID-19, Daily counts for COVID-19 Positive Hospital Admissions, and Daily Hospital Utilization.

Association of Alcohol Consumption and Hours Worked in the United States (2017-2018)

- Utilized regression analysis through RStudio to examine possible association between alcohol consumption and hours worked from NHANES data (2017-2018), controlling for relevant demographic factors.
- Identified statistically significant associations, effectively communicated findings through clear and concise report, as well as oral presentation, highlighting key insights and implications for policy and intervention strategies.

Head & Neck and Thoracic Cancer Risk Amongst National Pre-COVID-19 Pandemic Survey Participants

- Conducted an in-depth analysis to identify factors influencing cancer risk using multiple regression techniques prior to the COVID-19 pandemic with a focus on tobacco product consumption from NHANES 2017-2018.
- Built and optimized multiple regression models to predict cancer risk based on selected variables using SAS/SPSS. Assessed statistical significance and interpretation to improve future preventative and diagnostic strategies.

EXPERIENCE

Bayer May 2024 - Present **Process Insights & Analytics Intern** Remote

- Collected and manipulated multiple genome sequencing data sets utilizing R/RStudio to develop summary files of pertinent dates, KPIs, and project details.
- Designed novel product solutions to measure genome sequencing workflows and deployed interactive KPI dashboard and app through RShiny.
- Collaborated with cross functional teams to integrate metrics of interest to optimize workflows.
- Presented data pipeline, product solutions, and app/Dashboard demo to multiple teams, as well as future feature integrations.

Florida Department of Health Jan 2024 - May 2024 **Applied Epidemiology Intern** Miami, Florida

- Cleaned, manipulated, and managed large epidemiological data sets using statistical tools (e.g., R, SAS/SPSS, Excel) and created interactive visualizations to communicate public health trends and findings.
- Independently developed and applied statistical models to interpret health data and support decision-making processes for resource allocation.**
- Hosted presentations on Fatal and Non-fatal Drownings, Risk factors, and Prevention strategies through a community outreach program - Foster Grandparents of Miami.**
- Developed and provided detailed presentation on statistical findings on poison exposure within Miami-Dade County, as well as actionable insights for public health initiatives.

Southeast Veterinary Neurology April 2023 - Jan 2024 **Patient Care Coordinator** Remote

- Independently initiated and currently leading the development of a comprehensive data collection and analysis software to measure and optimize team performance metrics.**
- Employ data visualization tools like Excel and R to present call metric trends and patterns, aiding in data interpretation.
- Optimize data collection processes, resulting in improved efficiency and a more streamlined approach to gathering essential call metric information.