ASHLEE MARIE PEREZ

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Languages and Tools - R/RStudio, RShiny, tidymodels, SAS/SPSS, STATA, SQL, Python, Tableau, AWS, BigQuery

EDUCATION

Florida International University   Miami, Florida
Master's in Public Health: Biostatistics

Florida International University   Miami, Florida
Bachelor of Arts: Pre-Veterinary Curriculum

SELECTED PROJECTS

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

- Automated import and processing of 386 CDC Community Profile Reports using R/RStudio, *streamlining the calculation of COVID-19 outbreak metrics and improving reporting accuracy.*
- Collaborated with colleagues to refine data collection methods, identifying trends through visualizations, and recommendations for public health initiatives.

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

- Utilized *regression analysis and predictive modeling through R/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 (over 900,000 rows) from BigQuery schemas, 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 dashboards and applications through RShiny. Deployed product through AWS and Posit Connect, enhancing accessibility and data-driven metrics for multiple teams.**
- Collaborated with cross functional teams, including lead researchers, laboratory technicians, and data scientists, to present data pipeline, product solutions, and application/dashboard demonstrations, as well as future feature integration.

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

- Cleaned, manipulated, and managed large epidemiological data sets (over 500,000 rows) using statistical tools (e.g., R, SAS/SPSS, Excel), created interactive visualizations, and hosted multiple presentations to report statistical findings on poison exposure within Miami-Dade County.
- **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.

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

- **Independently initiated and managed comprehensive data collection and analysis of team performance metrics, identifying key areas for improvement and optimizing workflows to enhance efficiency.**
- Utilized data visualization tools, such as Excel and R, to effectively present call metric trends and patterns, facilitating better data interpretation and informed decision-making.