Álvaro C. Quijano-Angarita

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Education

University of North Carolina at Chapel Hill, Chapel Hill, PhD in Biostatistics, 2028

University of North Carolina at Chapel Hill, Chapel Hill, Master's in Biostatistics, 2023

National University of Colombia, Bogotá, Bachelor's in Statistics, 2020

Experience

Collaborative Studies Coordinating Center **Chapel Hill, NC**

Graduate Research Assistant *October 2021- May 2022; August 2022 - Present*

- Assists the Family Lifestyle Outcomes Research (FLOR) and Stress Gender and Minority (SGM-SOL) research clinical studies in deriving variables and datasets using SAS
- Produces SAS macros to perform analyses and prepare data displays and reports
- Performs quality control on derived datasets to ensure compliance with data dictionary definitions
- Writes data dictionaries and metadata of derived and existing datasets

Eli Lilly and Company **Indianapolis, IN**

SDnA Master Intern *May 2022 - August 2022*

- Coded an html-widget and a R package for interactive oncology clinical trial data visualization to be used in R shiny and R Markdown
- Implemented R shiny dashboard for oncology clinical data visualization
- Proposed an integration of javaScript and R to make widgets and input controls interactive and user friendly

Institute for Health Technology Assessment (IETS Colombia) **Bogotá, CO**

Data Analyst *March - June 2020; August 2020 - February 2021*

- Conducted descriptive statistical analysis using R and SQL to identify medical prescription patterns and improve access to health technologies and medicines not covered by Colombia's health benefit insurance
- Performed detailed analysis on orphan diseases, cancer, and rare diseases to prioritize the prescription and improve their access to health technologies and medicines
- Developed a Shiny R dashboard to visualize and tabulate the results of the analysis to the medical board

Colombia's National Administrative Department of Statistics (DANE) **Bogotá, CO**

Statistician *April - September 2020*

- Applied Bayesian and non-parametric regression models (TOPALS, spline-based) to estimate mortality, fertility, and other demographic outcomes in small areas in Medellín, Colombia by using SAS and R
- Researched and implemented Bayesian R-cohorts method for demographic projections in small geographic areas using R software
- Preprocessed and cleaned censuses, vital statistics, and household survey data using SAS

Honors

- Fulbright Scholarship
- Graduate Tuition Incentive Scholarship (GTIS), UNC-Chapel Hill
- Awarded 1st place in the pitch competition, Biomedical Innovations and Startup Workshop, Fulbright Seminar
- Best Undergraduate thesis Award, 2020

Skills and interests

- **Language:** Spanish (native), English (professional proficiency)
- **Programming:** R, SAS, Shiny R, SQL, Javascript (data visualization tools - d3, plotly), Git
- **Analytic tools:** Generalized Linear Models, data visualization, Longitudinal and bayesian data analysis
- **Training:** Data Science for all (DS4A - Correlation One), machine learning in python with Scikit-Learn (inria.fr)