ÁLVARO QUIJANO ANGARITA

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Gillings School of Global Public Health
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EDUCATION

MS **Biostatistics** August 2021 to present
University of North Carolina at Chapel Hill Chapel Hill, NC

BS **Statistics** May 2020
Universidad Nacional de Colombia Bogotá, Colombia

RESEARCH AND TEACHING EXPERIENCE

Graduate Research Assistant October 2021 to present
University of North Carolina at Chapel Hill Chapel Hill, NC

Research Assistant at the Collaborative Studies Coordinating Center at UNC for the Family Lifestyle Outcomes Research (FLOR) and Stress Gender and Minority (SGM-SOL) studies in the Hispanic Community Health Study / Study of Latinos (HCHS/SOL) project, a multi-center epidemiologic study in Hispanic/Latino populations. Duties include:

- Derives variables from HCHS/SOL survey for manuscript in progress.
- Codes the derived variables using SAS and produces reports using SAS macro language.
- Writes specifications and data dictionary for metadata and coding.

Research Assistant August 2019 – January 2020
Universidad Nacional de Colombia Bogotá, Colombia

Research Assistant in consultancy for quality of the National Population and Housing Census from Colombian National Office of Statistics (DANE- CNPV-2018). Duties included:

- Researched, proposed and applied novel methods for demographic figures estimation.
- Prepared and assisted discussion sessions about results of proposed methodologies.
- Fitted Bayesian and frequentist mortality models using R from vital statistics and census data.
- Wrote consulting reports.

Undergraduate Teaching Assistant February 2018 – June 2018; April 2019 – July 2019
Universidad Nacional de Colombia Bogotá, Colombia

- Teaching assistant for the course *Probability and Fundamental Statistics*, an undergraduate course averaging 60 students per semester.

- Independently taught the R programming laboratory to students.
- Grade assignments and supported professor with class material.

PROFESSIONAL EXPERIENCE

Data Analyst   March 2020 – June 2020; August 2020 – February 2021
Instituto de Evaluación Tecnológica en Salud - IETS   Bogotá, Colombia
    Health Technological Assessment Institute

- Applied descriptive statistical analysis tools to find patterns in the database of medical prescription technologies and medicines (MIPRES) not included in Colombia's basic health insurance.
- Performing detailed analysis on orphan diseases, cancer and rare diseases to find elements that allow prioritizing the prescription of health technologies.
- Coded a dashboard in Shiny R to visualize the results.

Statistician   April 2020 – September 2020
Departamento Administrativo Nacional de Estadística - DANE   Bogotá, Colombia
    Colombian National Statistics Department

- Applied and programmed Bayesian and non-parametric regression models (TOPALS, spline-based models) to estimate mortality, fertility and other demographic and socioeconomic outcomes in small areas for Medellín Colombia in SAS and R software.
- Researched and fitted Bayesian R-cohorts method for demographic projections in small areas.
- Investigated novel techniques for small area estimation at the community level in Medellín.
- Processed and cleaned census, vital statistics and household surveys data for perform analysis.

HONORS AND AWARDS

Fulbright Scholarship	2020
Best undergraduate thesis Award	2020
Academic Excellence scholarship	2016

PROFESSIONAL TRAINING

Doing more with SAS Programming   January 2022
SAS on Coursera

Machine Learning in python with scikit-learn   July 2021
Inria on France Université Numérique platform

Data Science for All.   December 2020
AI & Data Science training by Correlation One

Neuronal Networks and Deep Learning.   June 2020
deepleaning.ai on Coursera

LANGUAGES

Spanish: Native Language

English: Professional proficiency

SKILLS

Programming   R, SAS, LaTeX, Shiny R and SQL.

Research and tools Report writing, data collection, descriptive and predictive analytics, statistical programming, data visualization,