

ÁLVARO QUIJANO ANGARITA

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Collaborative Studies Coordinating Center – CCCC
Gillings School of Global Public Health
123 W. Franklin Street, Suite 450, CB, #8030
University of North Carolina at Chapel Hill

EDUCATION

MS	Biostatistics University of North Carolina at Chapel Hill	August 2021 to present Chapel Hill, NC
BS	Statistics Universidad Nacional de Colombia	May 2020 Bogotá, Colombia

PROFESSIONAL EXPERIENCE

Data Analyst Instituto de Evaluación Tecnológica en Salud - IETS Health Technological Assessment Institute	March 2020 – June 2020; August 2020 – February 2021 Bogotá, Colombia
<ul style="list-style-type: none">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 Departamento Administrativo Nacional de Estadística - DANE Colombian National Statistics Department	April 2020 – September 2020 Bogotá, Colombia
<ul style="list-style-type: none">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.	

RESEARCH AND TEACHING EXPERIENCE

Graduate Research Assistant University of North Carolina at Chapel Hill	October 2021 to present 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.
- Writes specifications and data dictionary for metadata and coding.

Research Assistant

Universidad Nacional de Colombia

August 2019 – January 2020

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

Universidad Nacional de Colombia

February 2018 – June 2018; April 2019 – July 2019

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.

HONORS AND AWARDS

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

PROFESSIONAL TRAINING

Doing more with SAS Programming

SAS on Coursera

January 2022

Machine Learning in python with scikit-learn

Inria on France Université Numérique platform

July 2021

Data Science for All.

AI & Data Science training by Correlation One

December 2020

Neuronal Networks and Deep Learning.

deeplearning.ai on Coursera

June 2020

LANGUAGES

Spanish: Native Language

English: High-intermediate

SKILLS

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

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