



ÁLVARO C. QUIJANO ANGARITA

CONTACT INFORMATION

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PROFESSIONAL AFFILIATION

UNC Collaborative Studies Coordinating Center (UNC-CSCC)
UNC Latino Graduate Professional Student Association (UNC LGPSA, Co-president)
American Statistical Association (ASA)
International Biometric Society (IBS)
Observatorio Demográfico y Epidemiológico del Área Andina, Colombia

EDUCATION

University of North Carolina at Chapel Hill, Chapel Hill, NC. 2023-Current
Ph.D. in Biostatistics.

University of North Carolina at Chapel Hill, Chapel Hill, NC. 2023
M.Sc. in Biostatistics.

- Thesis title: “Examining the determinants of Child mortality in Colombia: a discrete-time survival analysis using complex survey data.”.

National University of Colombia, Bogotá, Colombia. 2020
B.Sc. in Statistics.

- Thesis title: “Subnational estimation of underfive mortality in Colombia under a spatio-temporal smoothing model from complex survey data”.

INTERNATIONAL ACADEMIC MOBILITY

Universidad Politécnica de Madrid, Madrid, Spain. February - July 2016

EXPERIENCE

UNC Collaborative Studies Coordinating Center **Chapel Hill, NC**
Graduate Research Assistant *October 2021- May 2022; August 2022 - Current*

- Assists with the Family Lifestyle Outcomes Research (FLOR) and Stress, Gender, and Minority (SGM-SOL) clinical research studies in deriving variables, creating datasets, and performing data analysis using SAS.
- Produces SAS macros to perform analyses with complex survey data and prepare reports.
- Performs quality control on derived datasets to ensure compliance with data dictionary definitions
- Writes statistical analysis plans for ongoing studies and data dictionaries of derived datasets

Eli Lilly and Company **Indianapolis, IN**
SDnA Master Intern *May 2022 - August 2022*

- Coded an HTML-widget and an R package for interactive oncology clinical trial data visualization to be used in R Shiny and R Markdown
- Implemented an 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 Department of Statistics (DANE)

Statistician

Bogotá, CO

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

RESEARCH

Quijano A., Poteat, T., Perreira, K. M. & Sotres-Alvarez, D (Manuscript in progress). Cardiovascular Disease among Sexual and Gender Minorities in the Hispanic Community Health Study/Study of Latinos

Quijano, A., & Urdinola, P. (2023). Inequidades e incumplimiento de la meta de reducción de la mortalidad en la infancia departamental en Colombia, 1985-2019. In Transformando Colombia (pp. 232-247). Editorial UN. Retrieved from: <https://repositorio.unal.edu.co/bitstream/handle/unal/84325/9789585052727.pdf>

TEACHING EXPERIENCE

BIOS 511 - Introduction to Statistical Computing and Data Management,
University of North Carolina at Chapel Hill, NC.

Teaching Assistant
2024 - Current

Probability and Foundations in Statistics,
Universidad Nacional de Colombia, Bogotá.

Undergraduate Teaching Assistant
April - July 2019, February - June 2018

- Led R programming laboratory sessions for engineering, Economics, and Accounting students.
- Taught foundational concepts in probability and statistics
- Assessed student assignments and provided support to enhance learning outcomes

CONFERENCES

Subnational Estimation of Under-Five Mortality in Colombia Using a Spatio-Temporal Bayesian Model from Complex Survey Data,
Lima, Peru. June, 2024

HONORS

UNC Gillings and BIOS Travel Award, Chapel Hill, NC. 2024
Graduate Tuition Incentive Scholarship (GTIS), UNC-Chapel Hill 2021-2023
1st place in Biomedical Innovations & Startup Workshop pitch competition, Boston, MA. 2022
Fulbright Scholarship 2021
Best Undergraduate Thesis Award, National University of Colombia 2020

VOLUNTEERING

UNC Latino Graduate Professional Student Association.
Co-president

2024/25

Fulbright Colombia.

Mentor for incoming young Fulbright scholars

2022/Current

UNC Biostatistics Student Association (BSA).

International student Liaison

2023/24

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, Survival Analysis, Longitudinal Data Analysis, Data Visualization, Statistical Analysis of Brain Data (MRI images), and Complex Survey Data