

Boris Fazio

DATA ANALYST

Quantitative methods for public health and biomedical research

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Experience

Project specialist

BERNARD VAN LEER FOUNDATION

Jan. 2021 - Current

- Coordinated with software development and policy design teams to determine specifications for an in-house app created to improve local governments' management of public health interventions
- Carried out usability tests to improve user experience with both the app and program protocols
- Developed Shiny apps and Tableau dashboards to improve data reporting practices and task prioritization

Data management consultant

DEUTSCHE GESELLSCHAFT FÜR INTERNATIONALE ZUSAMMENARBEIT – PERU

Jul. 2020 - Dic. 2020

- Developed a set of Tableau dashboards to track KPIs for local governments
- Assessed available data for the development of KPIs to track water and sanitation interventions led by local governments

Information analyst

DELIVERY UNIT – PRESIDENCIA DEL CONSEJO DE MINISTROS

Sep. 2019 - May 2020

- Identified the suboptimal allocation of medical supplies across health care facilities, leading to a redistribution which took the number of adequately provisioned facilities from 36% to upwards of 80%
- Processed administrative data and survey microdata to provide weekly reports on health sector KPIs

Measurement analyst

UNICEF

Aug. 2018 - Jul. 2019

- Conducted a literature review on the measurement of adolescent well-being
- Produced an adolescent well-being index based on administrative data and survey microdata

Data analyst

MINISTERIO DE SALUD

Oct. 2016 - May 2018

- Processed multiple administrative databases to identify over 100 000 children with an incomplete course of treatment for anemia
- Advised on the redesign of a data collection application to facilitate distributed data entry capabilities
- Advised on sampling methodology for a national survey of IT infrastructure in the public healthcare sector
- Advised on the design of KPIs for tracking health interventions

Data analyst

MINISTERIO DE DESARROLLO E INCLUSIÓN SOCIAL

Dec. 2017 - Feb. 2018

- Implemented automated reports for monitoring the health status of social program beneficiaries

Teaching assistant

FACULTAD DE SALUD PÚBLICA Y ADMINISTRACIÓN – UNIVERSIDAD PERUANA CAYETANO HEREDIA

Mar. 2017 - Dec. 2017

- Tutoring for graduate-level Biostatistics and Epidemiology courses
- Helped graduate students define a research question and design an analysis plan

Research assistant

FACULTAD DE SALUD PÚBLICA Y ADMINISTRACIÓN – UNIVERSIDAD PERUANA CAYETANO HEREDIA

Dec. 2014 - Dec. 2016

- Generated periodic reports and recommendations to minimize entry errors for ongoing studies
- Provided logistics support for other researchers

Data manager

CENTRO DE INVESTIGACIÓN INTERDISCIPLINARIA EN SEXUALIDAD, SIDA Y SOCIEDAD

Sep. 2015 - Oct. 2016

- Automated retention analysis reports for cohort study
- Advised colleagues on statistical methods for study analysis
- Cleaned data and improved documentation for existing procedures

Education

Master in Statistics

PONTIFICIA UNIVERSIDAD CATÓLICA DEL PERÚ

April 2021

- Thesis: Endpoint-inflated beta-binomial regression for correlated count data

Bachelor of Science in Biology

UNIVERSIDAD PERUANA CAYETANO HEREDIA

July 2015

Skills

Data analysis	Hierarchical models, survival analysis, structural equation modeling, sampling techniques
Programming	R, SQL, Python, git
Languages	Spanish, English

Publications

Allan-Blitz LT, Konda KA, Vargas SK, Wang X, Segura ER, **Fazio BM**, Calvo GM, Caceres CF, Klausner JD. *The Development of an Online Risk Calculator for the Prediction of Future Syphilis among a High-Risk Cohort of Men Who Have Sex with Men and Transgender Women in Lima, Peru*. Sexual Health, 2018.

García PJ, **Fazio B**, Bayer AM, Lizarraga AG, Chiappe M, La Rosa S, Lazo M, López L, Valderrama M, Cárcamo CP. *Sexual health knowledge and practices and STI/HIV prevalence among long-distance truck drivers in Peru*. SAGE Open Medicine, 2017.

Egoavil MS, Condor DF, Pinazo-Vidal MA, Quezada JM, **Fazio BM**, Bueno JC, Peña LE, Farfán J, De la Puente JG, Arce C, Malpartida B, Arostegui A, Pérez-Lu JE. *Qualitative Study for the Development of a Telemedicine System in Palliative Care*. Palliative Medicine and Hospice Care, 2017.

Presentations and posters

Bustamante MJ, **Fazio B**, Calvo GM, Lugo E, Konda KA. *Understanding gay couples: a new vision for HIV prevention in Peru*. Poster presented at: 10th IAS Conference on HIV Science; 2019, Mexico DF.

Fazio B, Bayes C, Sal y Rosas G. *Approaches to Model Specification for Regression Analysis with Correlated, Endpoint-Inflated Bounded Count Data*. Poster presented at: VI Latin American Meeting on Bayesian Statistics; 2019, Lima.