

Darwin Del Castillo-Fernández
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Education

University of Washington, Seattle, WA

Master in Public Health (MPH), Global Health

Expected: 06/2025

Certificates: Global Health on Maternal and Child Health, Applied Biostatistics

Course Highlights: Health Economics, Applied Biostatistics, Longitudinal and Multilevel Analysis, Epidemiological Methods, Problems in Maternal and Child Health in LMICs.

National University of San Marcos, Lima, Peru

08/2021

Medical Doctor (MD), Medicine

Employment

I. Research Professional Experience

Data Analytics and Management Consultant.

06/2021 – 08/2021

Health Technology Assessment and Research Unit

Social Security Health System, Peru.

- Data analyst for the Institute for Health Technology Assessment and Research of the Peruvian Social Security Health System.
- Managed the data from observational studies and randomized clinical trials using the RedCap platform.
- Conducted data analysis in an observational study of the effectiveness of COVID-19 vaccination in health personnel using Stata and R

Health Technology Assessment Methodological Consultant

01/2023 – Current

Health Technology Assessment and Research Unit

Social Security Health System, Peru.

- Assessed the benefits and drawbacks of purchasing pharmaceutical products by the Social Health Insurance of Peru through a systematic evaluation of the effectiveness and economic impact using the GRADE Approach.
- Conducted systematic reviews of anti-oncological and immunosuppressant drugs in terms of efficacy and economic impact.
- Evaluated the budget impact of introducing new pharmacological products in the Social Security System.

Research Assistant.

06/2023 – 08/2023

CRONICAS Center of Excellence in Chronic Diseases

Peruvian University Cayetano Heredia, Peru

- Conducted semi-structured qualitative interviews as part of the implementation of the project IMPACT-DEMENTIA, supported by the NIHR-UK in collaboration with researchers from Universidad Peruana Cayetano Heredia, Imperial College, and the University of Oxford.
- Organized fieldwork with community health workers in Lima, Iquitos, and Huancayo.

Research Assistant

09/2023 – 12/2023

Department of Health Systems and Population Health

University of Washington, Seattle, WA

- Conducted on-phone interviews for the second post-survey assessment of the ReOpening Schools Safely and Educating Youth Study (ROSSEY Study).
- Supported submission of materials in Spanish for the IRB in the ADRC Clinical Core Study project.
- Conducted preliminary analyses for the Outreach, Engagement, and Recruitment module of the ADRC Clinical Core Study project.

II. Teaching Professional Experience

Teaching Assistant

01/2014 – 01/2015

School of Medicine

04/2020 – 08/2020

National University of San Marcos, Peru

- Teaching assistant in different courses during medical school
 - Human Embryology (14'-15')
 - Introduction to Biostatistics (20')
- In the Human Embryology course, I guided students in identifying embryological samples in the laboratory.
- During the Introduction to Biostatistics course, I gave review lectures to students in preparation for their final exam.
- Prepared mock exams directed to ace the midterm and final exams in both courses.

Teaching Assistant

01/2018 – 02/2018

Stanford Honors Academies Program

Eduexplora, Peru

- A Stanford University summer camp designed for high school students in Peru.
- Collaborated with the translation of the materials for the Bioscience class.
- Lectured and guided laboratory practices in Neuroscience
- Helped students with their assignments during classes.

Invited Lecturer

06/2021 – 07/2021

General Office of Research and Technologic Transference

Peruvian National Institute of Health, Peru

- Taught in the Descriptive Biostatistics and Sample Design course, organized for the General Office of Research and Technologic Transference personnel.

Skills and Tools

Technical: Highly proficient in STATA, G*Power, SPSS, REDCap, Rayyan, Covidence, EndNote, Zotero, Mendeley, Office 365 Suite. Proficient in R, Git, GitHub, iMedidata, RevMan, GRADEPro. Working knowledge of Python.

Language: Spanish (native), English (fluent)

Research Training

CRONICAS Center of Excellence in Chronic Diseases

Peruvian University Cayetano Heredia, Peru

Research trainee

03/2019 – 05/2023

Research assistant

06/2023 – 08/2023

Mentors: J. Jaime Miranda, MD PhD y Antonio Bernabé-Ortiz, MD PhD

Certificates

I. Short Courses

- 2018 Young Lives Study's Methodological Workshop, GRADE Group and Institute for Nutritional Research.
- 2020 Structural Equation Modeling: Introduction and Applications in R and AMOS. Peruvian Society of Psychometrics.
- 2022 Diplomate in Clinical Research. Peruvian University Cayetano Heredia.

II. MOCCS

- 2015 Introduction to R, Data Camp
- 2020 Introduction to Systematic Reviews and Meta-Analysis. Coursera and Johns Hopkins University.
- 2020 The Data Scientist's Toolbox. Coursera and Johns Hopkins University.
- 2020 R Programming. Coursera and Johns Hopkins University.
- 2021 Conducting an Intervention Review. Cochrane Interactive Learning.
- 2021 Causal Diagrams: Draw Your Assumptions Before Your Conclusions. HarvardX and EdX.
- 2021 Getting and Cleaning Data. Coursera and Johns Hopkins University.
- 2022 Economic Evaluation for Global Health. eDGH, University of Washington.
- 2023 Introduction to Epidemiology for Global Health. eDGH, University of Washington.
- 2023 Fundamentals of Global Health Research. eDGH, University of Washington.
- 2023 Fundamentals of Implementation Science, eDGH, University of Washington.

Awards and honors

- 2021 Medical Doctorate. Graduated with Honors (*Cum Laude*). Thesis Qualification: 17/20
- 2021 Scholarship to study the Diplomate in Clinical Research at Universidad Peruana Cayetano Heredia. Funded by the training program NIH/FIC 2D43TW001140-21 "Training in Infectious Disease in Peru – Time for Implementation Research". Awarded by the Universidad Peruana Cayetano Heredia with support from the Fogarty International Center.

Scientific production

Reviews, Essays, and Special Articles

1. **Del Castillo-Fernández D**, Brañez-Condorena A, Villacorta-Landeo P, Saavedra-Garcia L, Bernabé-Ortiz A, Miranda JJ. Avances en la investigación de enfermedades crónicas no transmisibles en el Perú. [Advances in the investigation of chronic non-communicable diseases in Peru]. An Fac med. 2021 Mar. 14 ;81(4). Available from: <https://doi.org/10.15381/anales.v81i4.18798>

Preprints and Other Interim Research Products

1. Moscoso MG, Villarreal-Zegarra D, **Del Castillo D**, Zavaleta E, Miranda JJ. Personality profiles and engagement with the augmented reality game Pokémon GO: a cross-sectional study [version 1; peer review: 1 approved with reservations]. Wellcome Open Res 2022, 7:264. Available from: <https://doi.org/10.12688/wellcomeopenres.18397.1>

Peer-reviewed publications

1. Lapidaire W, Proaño A, Blumenberg C, Loret de Mola C, Delgado CA, **Del Castillo D**, et al. Effect of preterm birth on growth and blood pressure in adulthood in the Pelotas 1993 cohort. Int J Epidemiol [Internet]. 2023 Jun 24; Available from: <https://doi.org/10.1093/ije/dyad084>
2. COSMOS Study Group. Core outcome sets for the evaluation of interventions to prevent and treat multimorbidity in low- and middle-income countries: the COSMOS study. BMJ Glob Health, *forthcoming*. Among authors: **Del Castillo D**.
3. Bazo-Alvarez JC, **Del Castillo D**, Piza L, Bernabe-Ortiz A, et al. Clustering diseases and people with unsupervised machine learning to study the longitudinal association between multimorbidity and mortality. J Multimorb Comorb. *forthcoming*.

Policy Statements, White Papers, Reports

1. IETSI -EsSalud. [Efficacy and safety of ceftazidime-avibactam for treating adult patients with bacteremia due to surgical wound infection by carbapenemase-producing Enterobacteriaceae. Health Technology Assessment – Preliminary Version N° 032 - DETS-IETSI-2023]. Lima, Peru. 2023. Author: **Del Castillo-Fernández D**.
2. IETSI -EsSalud. [Efficacy and Safety of Cladribine for the Treatment of Adult Patients With Relapsing-Remitting Multiple Sclerosis. Health Technology Assessment – Short Version N° 002 - DETS-IETSI-2023]. Lima, Peru. 2023. Author: **Del Castillo-Fernández D**.