

# Darwin Del-Castillo Fernandez

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## EDUCATION

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### University of Washington

MPH in Global Health

Seattle, WA

2023–Current

### National University of San Marcos

MD (Medical Doctor)

Lima, Peru

2013–2021

- Graduated with Honors (*Cum Laude*)

## PROFESSIONAL EXPERIENCE

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### University of Washington

Research Assistant on the Department of Health Systems and Population Health

Seattle, WA

09/2023–12/2023

- 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

### Peruvian University Cayetano Heredia

Research Assistant at CRONICAS Center of Excellence in Chronic Diseases

Lima, Peru

06/2023–08/2023

- 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
- Arranged logistics for semi-structured interviews with community health workers in Lima, Iquitos, and Huancayo
- Conducted fieldwork to pilot test a mHealth app intervention in Iquitos and Huancayo

### Social Security Health System

Methodological Consultant on the Health Technology Assessment and Research Unit

Lima, Peru

01/2023–Current

- Assessed the benefits and drawbacks of purchasing pharmaceutical products for Peru's social health insurance through a systematic evaluation of the effectiveness and economic impact using the GRADE Approach for decision-making in health
- Conducted systematic reviews of anti-oncological and immunosuppressant drugs regarding efficacy and economic impact
- Evaluated the budget impact of introducing new pharmacological products in the Social Security System

### Social Security Health System

Data Science Consultant on the Health Technology Assessment and Research Unit

Lima, Peru

06/2021–08/2021

- 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

## ADDITIONAL EXPERIENCE

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<b>Certificate Trainee</b> Global WACH Graduate Certificate Program - University of Washington	Seattle, WA 2023–Current
<b>Certificate Trainee</b> Certificate Program in Applied Biostatistics - University of Washington	Seattle, WA 2023–Current
<b>Public Policy Contribution</b> National Network of Health Technology Assessments	Lima, Peru 2023
<ul style="list-style-type: none"><li>– Efficacy and Safety of Cladribine for the Treatment of Adult Patients With Relapsing-Remitting Multiple Sclerosis. Health Technology Assessment – Short Version</li><li>– 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</li><li>– 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</li></ul>	

## TEACHING EXPERIENCE

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• <b>Teaching Assistant</b> at National University of San Marcos <i>Medical School: Human Embryology</i>	01/2014 –01/2015
• <b>Teaching Assistant</b> at Eduexplora <i>Stanford's Honors Academies: Bioscience</i>	01/2018 –02/2018
• <b>Teaching Assistant</b> at National University of San Marcos <i>Medical School: Introduction to Biostatistics</i>	04/2020 –09/2020
• <b>Invited Lecturer</b> at Peruvian National Institute of Health <i>General Office of Research and Technologic Transference: Descriptive Biostatistics and Sample Design</i>	06/2021 –08/2021

## TECHNICAL SKILLS

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- **Advanced:** R, Git, Stata, Covidence, Rayyan, RevMan, G\*Power
- **Intermediate:**  $\text{\LaTeX}$ , REDCap, iMedidata, Markdown, GRADEPro, SPSS
- **Basic:** Python

## LANGUAGES

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- **Spanish:** native speaker
- **English:** fluent

## PROFESSIONAL SKILLS

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- Possess significant field experience in Global Health, specifically in non-communicable diseases across the lifespan within Low- and Middle-Income Countries (LMICs), and a deep understanding of Global Health and LMIC health systems.
- Strong research and analytical skills, including experience with data analysis, data visualization, and modeling
- Ability to think critically and creatively to solve complex problems
- Strong written and verbal communication, including experience working with clients according to their needs

## PUBLICATIONS

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- [1] J. C. Bazo-Alvarez, **Del Castillo, Darwin**, L. Piza, A. Bernabe-Ortiz, R. Carrillo-Larco, L. Smeeth, R. H. Gilman, W. Checkley, and J. J. Miranda, “Clustering diseases and people with unsupervised machine learning to study the longitudinal association between multimorbidity and mortality”, *forthcoming*,
- [2] COSMOS Study Group (Among authors: **Del Castillo, Darwin**), “Core outcome sets for the evaluation of interventions to prevent and treat multimorbidity in low- and middle-income countries: The COSMOS study”, *forthcoming*,
- [3] W. Lapidaire, A. Proaño, C. Blumenberg, C. Loret De Mola, C. A. Delgado, **Del Castillo, Darwin**, F. C. Wehrmeister, H. Gonçalves, R. H. Gilman, R. A. Oberhelman, A. J. Lewandowski, J. C. K. Wells, and J. J. Miranda, “Effect of preterm birth on growth and blood pressure in adulthood in the pelotas 1993 cohort”, *International Journal of Epidemiology*, vol. 52, no. 6, pp. 1870–1877,
- [4] M. G. Moscoso, D. Villarreal-Zegarra, **Del Castillo, Darwin**, E. Zavaleta, and J. J. Miranda, “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*, vol. 7, p. 264, Oct. 14, 2022.
- [5] **Del Castillo-Fernández, Darwin**, A. Brañez-Condorena, P. Villacorta-Landeo, L. Saavedra-Garcia, A. Bernabé-Ortiz, and J. J. Miranda, “[Advances in the investigation of chronic non-communicable diseases in Peru]”, *An Fac med*, vol. 81, no. 4, Feb. 15, 2021.

## TRAININGS, WORKSHOPS AND SHORT COURSES

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- **Young Lives Study’s Methodological Workshop**, GRADE Group - Institute for Nutritional Research (2018)
- **The Data Scientist’s Toolbox**, Johns Hopkins - Coursera (2020)
- **R Programming**, Johns Hopkins - Coursera (2020)
- **Getting and Cleaning Data**, Johns Hopkins - Coursera (2020)
- **Structural Equation Modeling: Applications in R and AMOS**, Peruvian Society of Psychometrics (2020)
- **Conducting an Intervention Review**, Cochrane Interactive Learning (2021)
- **Causal Diagrams: Draw Your Assumptions Before Your Conclusions**, HarvardX - EdX (2021)
- **Diplomate in Clinical Research**, Peruvian University Cayetano Heredia (2022)
- **Economic Evaluation for Global Health**, eDGH - University of Washington (2022)
- **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 (2023)

## SCHOLARSHIPS AND AWARDS

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<b>Scholarship</b>	Peru
Fogarty Scholarship	2021–2022
– Scholarship to study the Diplomate in Clinical Research at Peruvian University Cayetano Heredia. Funded by the training program NIH/FIC 2D43TW001140-21 “Training in Infectious Disease in Peru – Time for Implementation Research”.	
<b>Scholarship</b>	Peru
GRADE Group Scholarship	2018
– Scholarship to participate in the 3-day workshop: “Young Lives Study’s Methodological Workshop”	

## REFERENCES

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**Linda K. Ko, PhD** Dept. of Health Systems and Pop. Health, University of Washington  
*lindako@uw.edu* Former Supervisor

**Antonio-Bernabé Ortiz, PhD** CRONICAS Center of Excellence in Chronic Diseases, UPCH  
*antonio.bernabe@upch.pe* Former Supervisor

**J. Jaime Miranda, PhD** School of Public Health, University of Sydney  
*Jaime.Miranda@sydney.edu.au* Mentor