

# Darwin Del Castillo, MD MPH

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## Education

### **Master in Public Health (MPH)**

**Sep 2023 – May 2025**

#### **University of Washington, Seattle - USA**

*Thesis:* “Cost-effectiveness analysis of a household salt substitute intervention on reducing community-wide blood pressure in Northern Peru”

### **Medical Doctor (MD)**

**Mar 2013 – Dec 2020**

#### **Universidad Nacional Mayor de San Marcos, Lima - Peru**

*Thesis:* “Childhood Obesity and Its Effect on Academic Achievement: An Analysis of the Young Lives Study between 2009 and 2016”

## Professional Experience

### **Graduate Research Assistant**

**Jul 2024 - Current**

#### **Clinical Informatics Team, Institute for Health Metrics and Evaluation**

##### **University of Washington, Seattle (USA)**

- Pooling epidemiological data of lower respiratory tract infections due to human metapneumovirus from 2010 to 2023 using the package meta in R and Python functions.
- Estimated population-attributable fractions and standardized mortality ratios for socially excluded groups in high-income countries using R.
- Analyzed data from public sources using Markov Chain Monte Carlo algorithms to estimate the overlap proportion between socially excluded groups in high-income countries using R.

### **Graduate Research Assistant**

**Jun 2024 - Mar 2025**

#### **Department of Global Health**

##### **University of Washington, Seattle (USA)**

- Conducted a scoping review protocol and performing evidence synthesis for mapping potential indicators for implementing mental health policy in data-limited settings.
- Designed a mixed-method study protocol to assess the effectiveness of implementation strategies for pediatric burn care in a Peruvian healthcare setting.
- Crafted communication strategies with stakeholders to inform results from the mixed-methods study.

### **Graduate Research Assistant**

**Sep 2023 - Mar 2024**

#### **Health Population Research Center, Department of Health Systems and Population Health**

##### **University of Washington, Seattle (USA)**

- Carried out on-phone interviews for the ReOpening Schools Safely and Educating Youth Study post-survey assessments.
- Facilitated the submission of materials in Spanish to the IRB for Alzheimer’s Disease Research Center (ADRC).
- Conducted preliminary analyses for the Outreach, Engagement, and Recruitment module of the ADRC Clinical Core Study project.

### **Research Consultant**

**Jan 2023 - Jan 2024**

#### **Health Technology Assessment Direction, Health Technology Assessment and Research Institute**

##### **Social Security Health System, Lima (Peru)**

- Elaborated policy documents of new pharmaceutical products for Peru’s social health insurance using a mixture of real-world evidence and economic data.
- Conducted systematic reviews of anti-cancerous and immunosuppressant drugs regarding efficacy and economic impact.
- Evaluated the budget impact of introducing new pharmacological products in Peruvian social health insurance.

### **Clinical Sub-investigator**

**Mar 2022 - Mar 2023**

#### **Via Libre Association**

##### **Lima (Peru)**

- Recruited patients identified as queer for clinical studies in STI and HIV prevention and treatment.
- Performed clinical procedures and activities associated with the normal operation of clinical trials funded by NIH and pharmaceutical companies.
- Participated and organized activities for community outreach and participant retention crafted for the queer community.

Research Assistant  
CRONICAS Center of Excellence in Chronic Diseases  
Universidad Peruana Cayetano Heredia, Lima (Peru)

Mar 2019 - Aug 2023

- Coordinated focus groups and on-field work across four Peruvian regions to co-design an intervention for patients with cognitive impairment and their caregivers.
- Contributed to research grant proposals in hypertension, diabetes, cancer, and multimorbidity projects by conducting systematic reviews and preliminary data analysis.
- Co-authored scientific manuscripts in the topics mentioned above which included longitudinal data analyses, meta-analyses, and unsupervised machine learning methods using Stata and R.

## Additional Education

Professional Certificate in Clinical Research  
Universidad Peruana Cayetano Heredia, Lima - Peru

Sep 2021 – Apr 2022

## Licensure and certification

Peruvian College of Physicians, Membership No. 94534

Aug 2021 – Aug 2026

National Registry of Investigators, RENACYT, Investigator Level VII (P0160977)

Feb 2024 – Feb 2026

CITI Program, Good Clinical Practice and ICH (GCP), Credential ID 65079238

Sep 2023 – Mar 2026

## Skills

### Computer and programming skills:

- **Programming languages:** R, Python, bash
- **Statistical software:** Stata, SPSS, SAS, G\*Power
- **Data visualization and reporting:** Shiny, ArcGIS, L<sup>A</sup>T<sub>E</sub>X, Markdown,
- **Data management and wrangling:** SQL, REDCap
- **Project management:** Jira, Asana, Trello
- **Development tools:** Git, GitHub, Docker, VSCode, Confluence, Bitbucket
- **Computing environments:** Linux/Unix, Windows, ssh

### Languages:

English: Fluent

Spanish: Native

Portuguese: Working proficiency

## Publications

### Peer-reviewed publications

1. Bazo-Alvarez, J.C., **Del Castillo, D.**, Piza, L., Bernabe-Ortiz, A., Carrillo-Larco, R.M., Smeeth, L., Gilman, R.H., Checkley, W., Miranda, J.J. (2024) "Multimorbidity patterns, sociodemographic characteristics, and mortality: Data science insights from low-resource settings" **Am J Epidemiol.** kwae466: Online ahead of print. Available at: [10.1093/aje/kwae466](https://doi.org/10.1093/aje/kwae466)
2. Vidyasagaran, A.L., Ayesha, R., Boehnke, J.R., [...], **Del Castillo Fernández, D.**, [...], Zavala, G.A., Zhao, Y.W., Siddiqi, N. (2024) "Core outcome sets for trials of interventions to prevent and to treat multimorbidity in adults in low and middle-income countries: the COSMOS study" **BMJ Glob Health.** 9(8):e015120. Available at: [10.1136/bmjgh-2024-015120](https://doi.org/10.1136/bmjgh-2024-015120)
3. Lapidaire, W., Proaño, A., Blumenberg, C., Loret de Mola, C., Delgado, C.A., **Del Castillo, D.**, Wehrmeister, F.C., Gonçalves, H., Gilman, R.H., Oberhelman, R.A., Lewandowski, A.J., Wells, J.C.K., Miranda, J.J. (2023) "Effect of preterm birth on growth and blood pressure in adulthood in the Pelotas 1993 cohort" **Int J Epidemiol.** 52(6):1870-1877. Available at: [10.1093/ije/dyad084](https://doi.org/10.1093/ije/dyad084)
4. **Del Castillo-Fernández, D.**, Brañez-Condorena, A., Villacorta-Landeo, P., Saavedra-García, L., Bernabé-Ortiz, A., Miranda, J.J. (2021) "[Advances in the investigation of chronic non-communicable diseases in Peru] (in Spanish)" **An Fac med.** 81(4): 444-452. Available at: [10.15381/anales.v81i4.18798](https://doi.org/10.15381/anales.v81i4.18798)

## Leadership and Service

### Professional Service

Feb 2025 - current	<b>Member</b> <b>America's Network for Chronic Disease Surveillance (AMNET)</b> Regional organization that promotes chronic disease monitoring, knowledge implementation, and public health capacity building throughout the Americas. AMNET fosters collaboration between governmental and non-governmental entities to improve health professional training in disease surveillance, prevention, and control.
Jan 2025 - current	<b>Trainee Advisory Committee Member</b> <b>Consortium of Universities for Global Health, USA</b> Collaborating with international co-trainees to address global health challenges and provide student perspectives on global health issues such as COVID-19, racial disparities, climate change, and research involvement of global health students.
Mar 2014 - current	<b>Emeritus member and External advisor</b> <b><a href="#">Association for the Development of Student's Research in Health Sciences (ADIECS)</a>, Lima - Peru</b> Peruvian student association funded in 2008 by students from the Universidad Nacional Mayor de San Marcos to develop capacity of both hard (e.g., epidemiological study designs, data analysis) and soft skills (e.g., teamwork communication, problem-solving) for biomedical underserved students.

### Mentoring

#### Undergraduate thesis

1. Fátima Sánchez Diaz and Nicole Ravines Layza, "Barriers and facilitators for mental health screening at family planning centers from low-and-middle income countries", Universidad Científica del Sur, Peru (2024 to Present).