

## Darwin Del Castillo, MD, MPH

- **Languages:** English (proficient), Spanish (native)
- **Programming languages:** R, Python, SQL (MySQL), bash
- **Other:** Linux/Unix, HPC (Slurm), L<sup>A</sup>T<sub>E</sub>X, Markdown, VSCode, Jupyter Notebooks, Quarto, Docker, Git, Shiny (R), REDCap, ArcGIS

 /darwin-del-castillo  
 /ddelcastillof  
 /ddelcastillo.f@gmail.com

### EDUCATION

---

**Master of Public Health (MPH)**  
**University of Washington, Seattle - USA**

**Sep 2023 – Jun 2025**

**Medical Doctor (MD)**  
**Universidad Nacional Mayor de San Marcos, Lima - Peru**

**Mar 2013 – Dec 2020**

### PROFESSIONAL EXPERIENCE

---

**Graduate Research Assistant**  
**Institute for Health Metrics and Evaluation**  
**University of Washington, Seattle (USA)**

**Jul 2024 - Current**

- Modeling epidemiological data of lower respiratory tract infections due to human metapneumovirus from 2010 to 2023 using meta-analysis information in R and Bayesian meta-regression suites (DisMod-MR).
- Analyzed data from public sources using Bayesian methods and Monte Carlo simulation to estimate the overlap proportion between socially excluded groups in high-income countries using the packages rJAGS and rstan.
- Estimated population attributable fractions among substance drug abusers, prisoners, and people experiencing homelessness from 22 high-income countries using previously-calculated SMR as inputs.

**Graduate Research Assistant**  
**Department of Global Health**  
**University of Washington, Seattle (USA)**

**Jun 2024 - Mar 2025**

- Synthesized clinical and research evidence into a scoping review to support the creation of indicators to guide mental health policy.
- 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**  
**Health Population Research Center**  
**University of Washington, Seattle (USA)**

**Sep 2023 - Mar 2024**

- Gathered sociodemographic and utilization data as part of a clinical trial post-assessment survey.
- Translated IRB submission materials from Spanish to English for the Alzheimer's Disease Research Center.
- Synthesized early engagement and outreach data into visualisation tools and summary tables, enabling program managers to make adjustments to recruitment strategies.

**RWE Consultant**  
**Health Technology Assessment and Research Institute**  
**Social Security Health System, Lima (Peru)**

**Jan 2023 - Jan 2024**

- Structured and consolidated multi-source health data (surveillance data, clinical studies) to generate data for health technology assessments.
- Conducted budget impact and cost-effectiveness assessments to prioritize funding for high-impact health interventions under national budgets.
- Presented data-driven recommendations and evidence summaries to policymakers and partners, supporting strategic purchasing decisions for the Social Security System.

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

**Mar 2019 - Aug 2023**

- Led workshops and focus groups with participants and community healthworkers across four regions to co-design patient-centered interventions.
- Conducted real-world evidence synthesis and preliminary data analyses to support grant proposals for hypertension, diabetes, cancer, and multimorbidity studies.
- Co-authored peer-reviewed manuscripts, communicating complex analytical findings for academic and policy audiences.

## ADDITIONAL EDUCATION

---

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

Sep 2021 – Apr 2022

## PUBLICATIONS

---

ORCID: 0000-0002-8609-0312

### 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, AL., Ayesha, R., Boehnke, JR., [...], **Del Castillo Fernández, D.**, [...], Zavala, GA., Zhao, YW., 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, CA., **Del Castillo, D.**, Wehrmeister, FC., Gonçalves, H., Gilman, RH., Oberhelman, RA., Lewandowski, AJ., Wells, JCK., Miranda, JJ. (2023) "Effect of preterm birth on growth and blood pressure in adulthood in the Pelotas 1993 cohort" **Int J Epidemiol.** 25;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, JJ. (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)

## OTHER ACTIVITIES

---

Jan 2025 - current

**Lecturer: Introduction to Epidemiology.** Universidad Científica del Sur. I'm teaching fourth-year medical students basic concepts of clinical epidemiology with a focus on basic study designs and identification of bias.

## MEMBERSHIPS

---

- International Epidemiological Association (2020 - Current)
- Peruvian College of Physicians (2021 - Current)
- Consortium of Universities for Global Health (2023 - Current)
- America's Network for Chronic Disease Surveillance (2025 - Current)