



Health data scientist and epidemiologist with 10 years of experience in public health research, statistical modelling, data management, and the implementation of information technologies in health-related projects. Proficient in R, QGIS, reproducible data pipelines, and other emerging analytical tools. Currently working on environmental health and climate change attribution, with previous work involving topics on maternal health, infectious diseases, and other health-related issues.

Education

Oct.2024 – Present
Barcelona, Spain.

Universitat Pompeu Fabra (UPF)
(PhD) Doctorate candidate | [Biomedicine](#)

Sept.2020 – Dec.2022
London, UK.

London School of Hygiene and Tropical Medicine (LSHTM)
(MSc) Master of Science | [Health Data Science](#)

Mar.2014 – Dec.2018
Lima, Perú.

Universidad Peruana Cayetano Heredia (UPCH)
(BSc) Bachelor | [Health Administration](#)

Professional Experience

May.2024 – Present
Barcelona, Spain.

Barcelona Institute for Global Health (ISGlobal)
Climate Change Adaptation group

- [Predoctoral Researcher](#)
 - Epidemiological modeling for climate change attribution of temperature-related mortality as part of the project EARLY-ADAPT, funded by the European Research Council (ERC). Co-author to the Global Lancet Countdown report as part of indicator 1.1.5 on heat-related mortality, utilizing data for 129 countries and 480 million registered deaths.
- [Software Engineer](#)
 - Implementation of harmonization protocols, data integration, and development of database procedures.

Apr.2020 – Apr.2024
Lima, Perú.

Instituto de Medicina Tropical Alexander von Humboldt (IMTVAH)
Laboratorio de Innovación en Salud [Health Innovation Laboratory]

- [Data Scientist](#)
 - Developed the data collection plan and prepared statistical analysis for the Data and Safety Monitoring Board (DSMB) of clinical trials.
 - Designed statistical models for health-related data within a cross-sectional study of ~4,000 individuals, as part of the Peruvian site of the Freedom From Infection (FFI) project, funded by the Bill & Melinda Gates Foundation.
- [Research Assistant](#)
 - Contributed towards the scientific production of the group by publishing in high-impact journals. Produced descriptive statistics, multivariable analysis and other assessments with machine learning or Bayesian methods.
 - Arranged training material, standardized documentation, dashboards and other forms of automated reporting for common data procedures.

Jan.2017 – Mar.2020
Lima, Perú.

Universidad Peruana Cayetano Heredia (UPCH)
Laboratorio de Malaria [Malaria Laboratory]

- [Research Assistant](#)
 - Managed data collection, processing, and analysis for a longitudinal cohort for ~1,000 individuals within the International Center of Excellence for Research in Malaria - Amazonia (ICEMR), project funded by the National Institutes of Health (NIH).
 - Coordinated the use, transfer, and governance policies of datasets generated.
 - Conducted statistical analysis on administrative and scientific data for projects on leptospirosis surveillance, malaria spatial epidemiology, and human mobility in remote rural riverine villages.
 - Data wrangling, data mining, and aerial imagery collection and procedures.

- Aug.2016 – Apr.2018 **Proyecto: Mamás del Rio**
Lima, Perú.
- Data Coordinator
 - Implemented ODK mobile systems and provided training to community health workers (CHWs) in electronic device usage to enhance maternal and child health delivery.
- Sep.2017 – Dec.2017 **Ministerio de Salud**
Lima, Perú.
- Dirección de Monitoreo y Evaluación de la Gestión en Salud*
- Data Consultant
 - Implementation of the data collection and analysis of the project “Termómetro Salud”, a health facility survey to collect KPIs and other facility indicators.
- Aug.2016 – Nov.2016 **Ministerio de Salud**
Lima, Perú.
- Despacho Viceministerial de Salud Pública*
- Data Consultant
 - Development of an application and surveyor training for the data collection system of the National Campaign for Vaccination Against Yellow Fever of the Ministry of Health, held in the region of Junín, Perú.

Academic activities

- Conference presentations

(Sep.2026 Munich, Germany.) **International Society for Environmental Epidemiology (ISEE 2026)**
Oral Presentation: Global temperature-related mortality attributable to human-induced climate change

(Oct.2024 New Orleans, USA.) **American Society of Tropical Medicine and Hygiene (ASTMH 2024)**
Oral Presentation: Advancing Malaria Elimination Assessment in Loreto, Peru through the Freedom from Infection Model

- Teaching roles

Colegio de La Inmaculada, Jesuitas

Lecturer (Lima, Perú)

3rd of secondary (Mar.2019 – Dec.2019)

“Computer Science”

3rd of secondary (Mar.2017 – Dec.2017)

“Game design and Development”

4th of secondary (Mar.2015 – Dec.2015)

“Civic Education”

Universidad Peruana Cayetano Heredia

Assistant professor (Lima, Perú)

(Jun.2018 – Aug.2018)

“Introduction to data management and visualization in R”

(Jan.2018 – Mar.2018)

“Basics of statistics applied with R”.

(Jul.2017 – Sep.2017)

“Introduction to statistics with R”

(Aug.2016 – Dec.2016)

“Society, Culture and Health Organizations”

- Workshops and talks

Aug.2026 Attendee – Workshop “Full Research Workflow with Generative AI: From Ideation to Publication in Environmental Epidemiology”, Munich, Germany

Apr.2019 Attendee – Bioinformatics Resource for Invertebrate Vectors of Human Pathogens (VectorBase) Hands-on Workshop, Iquitos, Perú

Feb.2019 Lecturer – “Advanced tools with R” XVI Teorical practice course of molecular epidemiology applied to infectious diseases – Postgraduate school, Universidad Peruana Cayetano Heredia (UPCH)

Nov.2018 Moderator – Colloquium “Role and challenges of the health administrator in public management” - Facultad de Salud Pública y Administración, Universidad Peruana Cayetano Heredia (UPCH)

Feb.2017 Speaker – Presentation “Campañas de fiebre amarilla – MINSA” as part of the I Meeting of Telehealth and Mobile Health for the care of people

Oct.2016 Attendee – Seminar “Tools for decision-making in the direction and management of health services” - Universidad de Piura

Publications

- Romanello M, Walawender M, Israelsson J, Mahmudul Hasan M, Battaglia F, Dutta A, Hsu SC, Orgen P, Palmeiro-Silva Y, Scamman D, Smallcombe JW, **Ruiz-Cabrejos J**, et al. (2026). The 2026 Report of the Lancet Countdown on Health and Climate Change. *The Lancet* [in press]
- Ballester, J., Royé, D., Janoš, T., Paniello-Castillo, B., Chen, Z.-y., Thompson, A., **Ruiz-Cabrejos, J.**, Quijal-Zamorano, M., Tobias, A., Shartova, N. & Antó, J. Rethinking early warning systems for the health effects of extreme heat. (2026). *Nature Health*, 1 (1), 6-8.
- Romanello M, Walawender M, Hsu SC, Moskeland A, Palmeiro-Silva Y, Scamman D, Smallcombe JW, **Ruiz-Cabrejos J**, et al. (2025). The 2025 Report of the Lancet Countdown on Health and Climate Change: Climate change action offers a lifeline. *The Lancet*, 406 (10521), 2804-2857.
- Stresman G, Nelli L, Wu L, Byrne I, Surendra H, Fernandez-Camacho B, **Ruiz-Cabrejos J**, et al. (2025). Evidence-based decision-making for malaria elimination: Applying the Freedom From Infection statistical framework in five malaria eliminating countries. *The Lancet Global Health*, 13(9), e1591-e1604.
- Fernandez-Camacho, B., Peña-Calero, B., Guillermo-Roman, M., **Ruiz-Cabrejos J**, et al. (2024) Malaria seroepidemiology in very low transmission settings in the Peruvian Amazon. *Scientific Reports*, 14(1), 2806.
- Navarro, R., Paredes, J.L., Tucto, L. Medina C, Angles-Yanqui E, Nario JC, **Ruiz-Cabrejos J**, et al. (2022). Bovine lactoferrin for the prevention of COVID-19 infection in health care personnel: a double-blinded randomized clinical trial (LF-COVID). *Biometals*, 36(3), 463-472.
- Carrasco-Escobar G, Matta-Chuquisapon J, Manrique E, **Ruiz-Cabrejos J**, et al. (2022) Quantifying the effect of human population mobility on malaria risk in the Peruvian Amazon. *Royal Society Open Science*, 9(7), 211611.
- Gianella C, **Ruiz-Cabrejos J**, et al. Reverting five years of progress: Impact of COVID-19 on maternal mortality in Peru. (2021). *Cmi Brief*, 2021(1).
- Carrasco-Escobar G, Fornace K, Wong D, Padilla-Huamantínco PG., Saldaña-Lopez Jose A., Castillo-Meza Ober E., Caballero-Andrade Armando E., Manrique E, **Ruiz-Cabrejos J**, et al. (2020). Open-Source 3D Printable GPS Tracker to Characterize the Role of Human Population Movement on Malaria Epidemiology in River Networks: A Proof-of-Concept Study in the Peruvian Amazon. *Frontiers in Public Health*, 8, 526468.
- Carrasco-Escobar G, Manrique E, **Ruiz-Cabrejos J**, et al. (2019). High-accuracy detection of malaria vector larval habitats using drone-based multispectral imagery. *PLOS Neglected Tropical Diseases* 13:e0007105.
- Carrasco-Escobar G, Castro MC, Barboza JL, **Ruiz-Cabrejos J**, et al. (2019). Use of open mobile mapping tool to assess human mobility traceability in rural offline populations with contrasting malaria dynamics. *PeerJ* 6:e6298.
- Lazo M, Valderrama M, Perez J, Garcia J, **Ruiz-Cabrejos J**, et al. (2016). Strengthening Peruvian Immunization Records through Mobile Data Collection Using the ODK App. *Immunization Newsletter*, 38(4), 2016.

Languages

SPANISH	Native Speaker
ENGLISH	Level C1. Cambridge Certificate in Advance English (CAE)

Skills

Applications.

MS Office:	Advanced
XLSForms REDCap CommCare:	Advanced
Git:	Advanced
HTML:	Intermediate
Bash Linux SLURM:	Basic

Geographical and Viz Software.

ggplot2 Plotly:	Advanced
QGIS:	Advanced
Power BI Tableau:	Intermediate

Statistics and Data Software.

R (R)markdown R Shiny:	Advanced
Python:	Advanced
SQL GraphQL:	Advanced
SPSS STATA:	Intermediate
SAS:	Basic

Others

DJI Drone operator:	Advanced
---------------------	----------