Andree Valle-Campos

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Interests

Outbreak analytics using Data science. Education, Community building, and Reproducible research.

Education

2018-2018 **Master of Science in Epidemiological Research**
Universidad Peruana Cayetano Heredia (UPCH), Lima-Peru

2011-2015 **Bachelor of Science in Genetics and Biotechnology**
Universidad Nacional Mayor de San Marcos (UNMSM), Lima-Peru

Affiliations

2023-now. **Epiverse-TRACE (LSHTM)**, London, United Kingdom. **Contractor**
Research Fellow in Community building and Training.

2022-2022 **The GRAPH Courses (University of Geneva)**, Switzerland. **Contractor**
R developer and Instructor.

2019-2021 **National Center for Epidemiology (CDC Peru)** **Consultant**
Epidemiological Research and Surveillance Group, Ministry of Health.

2017-2019 **Universidad Peruana Cayetano Heredia (UPCH)**, Peru. **Intern**
Emerge, Emergent Diseases and Climate Change Research Unit.

2016-2017 **Universidad Nacional de la Amazonía Peruana (UNAP)**, Peru. **Consultant**
Fundación para el Desarrollo Sostenible de la Amazonía Baja.

2015-2016 **U.S. Naval Medical Research Unit Six (NAMRU-6)**, Peru. **Intern**
Dept. of Parasitology, Div. of Immunology and Vaccine Development.

Publications (n=11)

Selected peer-reviewed (n=9)

-Reyes-Vega MF, Soto-Cabezas MG, Soriano-Moreno AN, Valle-Campos A, et al. "Clinical features of Guillain–Barré syndrome and factors associated with mortality during the 2019 outbreak in Peru" *Journal of Neurology* doi: 10.1007/s00415-022-11331-4

-Reyes-Vega MF, Soto-Cabezas MG, Cárdenas F, Martel KS, Valle A, et al. "SARS-CoV-2 prevalence associated to low socioeconomic status and overcrowding in an LMIC megacity: A population-based seroepidemiological survey in Lima, Peru". *EClinicalMedicine.* doi: 10.1016/j.eclinm.2021.100801 .

-Gunderson AK, Kumar RE, Recalde-Coronel C, Vasco LE, Valle-Campos A, et al. "Malaria Transmission and Spillover across the Peru–Ecuador Border: A Spatiotemporal Analysis". *Int. J. Environ. Res. Public Health 2020, 17, 7434.* doi: 10.3390/ijerph17207434 .

-Quispe AM, Pinto DF, Huamán MR, Bueno GM, & Valle-Campos A. ["Quantitative Methodologies: Sample size calculation with STATA and R."] *Revista del Cuerpo Médico del HNAAA, 2020, 13(1), 78-83.* doi: 10.35434/rcmhnaaa.2020.131.627 .

-Munayco CV, Tariq A, Rothenberg R, Soto-Cabezas MG, Reyes MF, Valle A., et al. "Early transmission dynamics of COVID-19 in a southern hemisphere setting: Lima-Peru: February 29th–March 30th, 2020.". *Infectious Disease Modelling, 2020, 5, 338 - 345.* doi: 10.1016/j.idm.2020.05.001 .

-Loyola S., Valle A., Montero S. and Carrasco-Escobar G. ["Recommendations to properly describe a COVID-19 epidemic curve."] *Revista Peruana de Medicina Experimental y Salud Pública, 2020, 37(2).* doi: 10.17843/rpmesp.2020.372.5461 .

Non-peer-reviewed (n=2)

-[Opinion] Carrasco-Escobar G, Incio J, Valle A., Martínez JJ, Prochazka M, Ugarte C. ["Data and Transparency to fight the coronavirus."] *Ojo Público, 2020.* url: ojo-publico.com .

-[Editorial] Valle-Campos A. ["Health Data Science: Applications at the Peruvian Center for Epidemiology, Prevention and Disease Control, CDC-Peru."] *Boletín Epidemiológico del Perú, 2019, 18(49), 1245.* doi: 10.5281/zenodo.4014211 .

Computational Skills

Statistical programming: R (fluent), package developer: `serosurvey`, `covid19viz`, `epihelper`.
Programming Language: Bash (Unix shell, fluent), Python (basic), Stata (fluent).
OS, Text editor, & more: GNU/Linux (Ubuntu). LaTeX, R Markdown. SublimeText. Git.

Conference presentations

serosurvey: Serological Surveys and Prevalence Estimation Under Misclassification. 2021
Elevator pitch at the useR! Conference. Online.

[**Epidemiological analysis of the epidemic of Guillain Barré Syndrome in Peru.**] 2019
Poster presentation at the INS International Scientific Congress. Lima, Peru.

Human mobility and malaria history in a periurban community in Iquitos, Peru. 2019
Poster presentation at the ASTMH Annual Meeting. Maryland, USA.

Workshop Instructor

Análisis de Brotes y Modelamiento en Salud Pública, Perú *20 hours* 2024
Co-organizer with CDC Perú. Co-lead instructor. *30 students*

Improve the reproducibility of your code for Epidemic Analysis with R *3 h.* 2023
Organizer. Lead instructor. *20 students*

Outbreak Analytics and Modelling for Public Health, Colombia-Peru *9 h.* 2021
Co-organizer with UJaveriana and CDC Perú. Tutorial contributor. *100 students.*

[**Basic R applied to disease surveillance and outbreak analysis**] *6 hours* 2021
Organizer and lead instructor for Ministry of Health personnel. *30 students.*

[**Epidemiological analysis using R**] *4 hours* 2019
Organizer and Lead instructor. *30 students.*

Teaching Lectures

Teacher Assistant. At Master's of Science programs at the LSHTM. *1 year* 2024
Modules: Statistics for Health Data Science, Health Data Management. *40 grad students.*

[**Data analysis in epidemiological surveillance I: time, space, person**] *2 hours* 2021
Descriptive and statistical analysis of outbreaks. *35 grad students.*

[**Visualizing public health and field epidemiology data**] *2 hours* 2021
Dashboards as tools for decision making in public health. *30 grad students.*

Teacher Assistant. At the Master's of Science in Epidemiological Research. *1 year* 2019
Modules: Epidemiology. *48 grad students.*

Talks

[**Good practices for reproducible analysis in outbreak response**] *80 participants.* 2024

[**Analysis of #multiple epidemics and prevalences with R and purrr.**] *50 part.* 2020

[**Hypothesis testing with nonparametric statistical methods.**] *30 participants.* 2020

[**How to use R for Epidemiology at CDC Peru?**] *25 participants.* 2019

Short Course participant

[**Online teaching 101**] [**How to teach programming online**] 2021
Delivered by Metadocencia. On pedagogic techniques to design trainings. One day.

CODATA-RDA Research Data Science School 2020
On data management, open science, machine learning and infrastructure. Two weeks.

Outbreak Analytics and Modelling for Public Health, Colombia 2019
Delivered by RECON. On dynamic modeling in response to outbreaks. One week.

Certifications

English: LanguageCert International ESOL SELT B1. 26 Jul 2022
English: TOEFL best score 94. 11 Mar 2022
Biomedical Research - Basic/Refresher: CITI program. Expiration date: 04 May 2021