Andree Valle Campos

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INTERESTS	Biomedical research, Data science and Education. Reproducible science. Open science. Causal inference.

EDUCATION

2018-2018	**Master of Science in Epidemiological Research** Universidad Peruana Cayetano Heredia (UPCH), Lima-Peru Rank: Top fifth among 28 students.
2011-2015	**Bachelor of Science in Genetics and Biotechnology** Universidad Nacional Mayor de San Marcos (UNMSM), Lima-Peru Rank: Top third at the 4th term among 30 students.

AFFILIATIONS

2022-2022.	**The GRAPH Network**, Geneva, Switzerland. Global Research and Analysis for Public Health.	**Contractor**
2019-2021.	**National Center for Epidemiology (CDC Peru)** Epidemiological Research and Surveillance Group, Ministry of Health.	**Researcher**
2017-2019	**Universidad Peruana Cayetano Heredia (UPCH)**, Peru. Emerge, Emergent Diseases and Climate Change Research Unit.	**Intern**
2016-2017	**Universidad Nacional de la Amazonía Peruana (UNAP)**, Peru. Fundación para el Desarrollo Sostenible de la Amazonía Baja.	**Consultant**
2015-2016	**U.S. Naval Medical Research Unit Six (NAMRU-6)**, Peru. Dept. of Parasitology, Div. of Immunology and Vaccine Development.	**Intern**

PUBLICATIONS (N=8)

Peer-reviewed (n=6)

-Reyes-Vega MF, Soto-Cabezas MG, Cárdenas F, Martel KS, <u>Valle A</u>, 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, <u>Valle-Campos A</u>, 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, & <u>Valle-Campos A</u>. ["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, <u>Valle A.</u>, 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., <u>Valle A.</u>, 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 .

-Saavedra-Langer R., Marapara J., <u>Valle-Campos A.</u>, et al. "IgG subclass responses to excreted-secreted antigens of *Plasmodium falciparum* in a low transmission malaria community of the Peruvian Amazon". *Malaria journal, 2018, 17(1), 328.* doi: 10.1186/s12936-018-2471-6 .

Non-peer-reviewed (n=2)

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

-[Editorial] <u>Valle-Campos A.</u> ["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 .

GRANTS AND AWARDS

Scholarship. Master studies. Emerge grant. NIH/FIC TG D43 TW007393	2018	USD 10,644
Grant. Undergraduate research: Camelid Reproduction Group - UNMSM	2014	USD 500

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.** Elevator pitch at the useR! Conference. Online. ⬭ ↗	2021
	[Epidemiological analysis of the epidemic of Guillain Barré Syndrome in Peru.] Poster presentation at the INS International Scientific Congress. Lima, Peru. ⬭ ↗	2019
	Human mobility and malaria history in a periurban community in Iquitos, Peru. Poster presentation at the ASTMH Annual Meeting. Maryland, USA. ⬭ ↗	2019
	In vitro effect of ELF Magnetic Field on the sperm motility of Alpacas Poster, Annual Meeting of the Bioelectromagnetics Society, BioEM2015. Monterey, USA. ⬭ ↗	2015

WORKSHOP INSTRUCTOR	**Outbreak Analytics and Modelling for Public Health, Colombia-Peru** ⬭ ↗ *9 hours* Part of organizing committee. Workshop coordinator. Tutorial contributor. *100 students.*	2021
	[Basic R applied to disease surveillance and outbreak analysis] ⬭ ↗ *6 hours* Introduction to R projects and ggplot2 graphics for Ministry of Health personel. *30 students.*	2021
	[Epidemiological analysis using R] ⬭ ↗ *4 hours* Applications to case-control, cohort and time to event study designs. *30 students.*	2019
	[Introduction to Inferential Statistics for biologist] ⬭ ↗ *6 hours* Introduction to R, Linear models and Multiple comparison. *40 students.*	2019
	[Reproducible science and Microarray analysis] ⬭ ↗ *8 hours* Designs, statistics and visualizations with `Bioconductor` and `Tidyverse`. *50/20 students.*	2017/19

LECTURES	**[Data analysis in epidemiological surveillance I: time, space, person]** ↗ *2 hours* Descriptive and statistical analysis of outbreaks. *35 grad students.*	2021
	[Visualizing public health and field epidemiology data] ↗ *2 hours* Dashboards as tools for decision making in public health. *30 grad students.*	2021
	Teacher Assistant. At the Master's of Science in Epidemiological Research. ↗ *1 year* In charge of practical sessions, monthly reviews, and test correction. *48 grad students.*	2019
	[On #tardigate and Horizontal Gene Transfer bioinformatics] ↗ *2 hours* Review of the controversy around the first tardigrade genome. *5 undergrad students.*	2016
	[Gene Regulatory Networks: Topology and Dynamics] ↗ *3 hours* Applications from Graph Theory and Finite Automata. *10 undergrad students.*	2015-18

TALKS	**[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 COURSES	**[Online teaching 101]** ↗ **[How to teach programming online]** ↗ Techniques to design programming courses and evaluate students. One day.	2021
	Outbreak Analytics and Modelling for Public Health, Colombia ⬭ ↗ Dynamic modeling in response to outbreaks and interventions. One week.	2019
	CODATA-RDA Research Data Science School 2017 ↗ **and 2020** ↗ Data management, open science, machine learning and infrastructure. Two weeks.	2017/20
	[Minicourse on Spatio-Temporal Models in Epidemiology] ↗ Theory and practice of areal data, point pattern analysis and geostatistics. Two days.	2017
	Working with Parasite Database Resources ↗ Genomic, proteomic, metabolomic applications of `eupathdb.org`. One week.	2016
	School on Physics Applications in Biology ↗ Game theory, non-linear dynamics and statistical physics. Three week.	2016
	V Southern-Summer School on Mathematical Biology ↗ Population dynamics modeling in ecology and epidemiology. One week.	2016

CERTIFICATIONS	**English**: TOEFL best score 94 (reading:23, listening:27, speaking:20, writing:24).	11 Mar 2022
	Biomedical Research - Basic/Refresher: CITI program.	Expiration date: 04 May 2021
	Responsible Conduct in Research: QUIPU program - Peru.	Completition date: 05 May 2018