Andree Valle Campos, MSc(c)

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INTERESTS

Quantitative and systems developmental biology. Causal questions for hypothetical interventions. Reproducible and open science. Biostatistics. Bioengineering approaches. Best-practices of teaching.

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

2019-2020.	**MoH, National Center for Epidemiology (CDC Peru)**	**Researcher**
	Epidemiological Research and Intervention Evaluation Group.	
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=8)

Peer-reviewed (n=6)

-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. ["Quantiative 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. ["Recomendations 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., Valle-Campos A., 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 ⧉ .

At Newsletters (n=2)

-[Opinion] Carrasco-Escobar G, Incio J, Valle A., Martínez JJ, Prochazka M, Ugarte C. ["Data and Transparency to fight against to 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 ⧉ .

GRANTS, AWARDS AND RECOGNITIONS

Scholarship. Emerge Training Grant NIH/FIC TG D43 TW007393	2018	USD 10,644
Grant. Undergraduate research: Camelid Reproduction Group - UNMSM	2014	USD 500
Ranked 1st. UPCH X Summer Course on Molecular Biology (40 students)	2013	
Ranked 1st. UNMSM Admission Test to Basic Sciences (1000 applicants)	2011	

COMPUTATIONAL SKILLS

Statistical programming: R (developer of work-in-progress packages: serosurvey, and more).
Programming Language: Bash (Unix shell, fluent), Python (basic), Stata (fluent).
OS, Text editor, & more: GNU/Linux (Ubuntu). LaTeX, R Markdown. SublimeText. Git.

CONFERENCE PARTICIPANT	**serosurvey: Serological Surveys and Prevalence Estimation Under Misclassification.** Elevator pitch at the useR! Conference. ⊕ ↗	2021
	[Epidemiological analysis of the epidemic of Guillain Barré Syndrome in Peru.] Poster presentation at the INS International Scientific Congress. ⊕ ↗	2019
	Human mobility and malaria history in a periurban community in Iquitos, Peru. Poster presentation at the ASTMH Annual Meeting. ⊕ ↗	2019

WORKSHOP INSTRUCTOR	**Outbreak Analytics and Modelling for Public Health** ↗ 🐦 *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

TEACHER AND LECTURER	**[Data analysis in epidemiological surveillance II: spatial analysis]** ↗ *2 hours* Generate maps with risk estimates using R. *35 grad students.*	2021
	[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
	[Gene Regulatory Networks: Topology and Dynamics] ↗ *3 hours* Applications from Graph Theory and Finite Automata. *10 undergrad students.*	2015-18
	[On #tardigate and Horizontal Gene Transfer bioinformatics] ↗ *2 hours* Review of the controversy around the first tardigrade genome. *5 undergrad students.*	2016

TALKS	**[Introduction to spatial analysis.]** ↗ *30 participants.*	2021
	[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 in Epidemiology?] ↗ *25 participants.*	2019

TRAININGS WITH SCHOLARSHIP	**[How to teach programming online]** ↗ Techniques to design programming courses and evaluate students. One day.	2021
	Outbreak Analytics and Modelling for Public Health ↗ ⊕ 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
	V Southern-Summer School on Mathematical Biology ↗ Population dynamics modeling in ecology and epidemiology. One week.	2016

CERTIFICATIONS	**English**: TOEFL score 88 (21/23/20/24).	Test date: 14 Dic 2020
	Biomedical Research - Basic/Refresher: CITI program.	Expiration date: 04 May 2021
	Responsible Conduct in Research: QUIPU program - Peru.	Completition date: 05 May 2018