









Andree Valle Campos

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INTERESTS	Systems developmental biology. Quantitative and Bioengineering approaches. Data science training with evidence-based best-practices. Open science.		
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.	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”. <i>EClinicalMedicine</i> . 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”. <i>Int. J. Environ. Res. Public Health</i> 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.”] <i>Revista del Cuerpo Médico del HNAAA</i> , 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.”. <i>Infectious Disease Modelling</i> , 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.”] <i>Revista Peruana de Medicina Experimental y Salud Pública</i> , 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 <i>Plasmodium falciparum</i> in a low transmission malaria community of the Peruvian Amazon”. <i>Malaria journal</i> , 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.”] <i>Ojo Público</i> , 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.”] <i>Boletín Epidemiológico del Perú</i> , 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 (fluent), package developer: serosurvey , covid19viz , epihelper . Programming Language: Bash (Unix shell, fluent), Python (basic), Stata (fluent). OS, Text editor, & more: GNU/Linux (Ubuntu). L ^A T _E X, 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. 🔗 🔗	
	In vitro effect of ELF Magnetic Field on the sperm motility of Alpacas 2015 Poster, Annual Meeting of the Bioelectromagnetics Society, BioEM2015. Monterey, USA. 🔗 🔗	
WORKSHOP INSTRUCTOR	Outbreak Analytics and Modelling for Public Health, Colombia-Peru 🔗 🐦 9 hours 2021 Part of organizing committee. Workshop coordinator. Tutorial contributor. 100 students.	
	[Basic R applied to disease surveillance and outbreak analysis] 🔗 6 hours 2021 Introduction to R projects and ggplot2 graphics for Ministry of Health personel. 30 students.	
	[Epidemiological analysis using R] 🔗 4 hours 2019 Applications to case-control, cohort and time to event study designs. 30 students.	
	[Introduction to Inferential Statistics for biologist] 🔗 6 hours 2019 Introduction to R, Linear models and Multiple comparison. 40 students.	
	[Reproducible science and Microarray analysis] 🔗 8 hours 2017/19 Designs, statistics and visualizations with Bioconductor and Tidyverse. 50/20 students.	
LECTURES	[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 In charge of practical sessions, monthly reviews, and test correction. 48 grad students.	
	[On #tardigate and Horizontal Gene Transfer bioinformatics] 🔗 2 hours 2016 Review of the controversy around the first tardigrade genome. 5 undergrad students.	
	[Gene Regulatory Networks: Topology and Dynamics] 🔗 3 hours 2015-18 Applications from Graph Theory and Finite Automata. 10 undergrad students.	
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] 🔗 2021 Techniques to design programming courses and evaluate students. One day.	
	Outbreak Analytics and Modelling for Public Health, Colombia 🔗 🔗 2019 Dynamic modeling in response to outbreaks and interventions. One week.	
	CODATA-RDA Research Data Science School 2017 🔗 and 2020 🔗 2017/20 Data management, open science, machine learning and infrastructure. Two weeks.	
	[Minicourse on Spatio-Temporal Models in Epidemiology] 🔗 2017 Theory and practice of areal data, point pattern analysis and geostatistics. Two days.	
	Working with Parasite Database Resources 🔗 2016 Genomic, proteomic, metabolomic applications of eupathdb.org. One week.	
	School on Physics Applications in Biology 🔗 2016 Game theory, non-linear dynamics and statistical physics. Three week.	
	V Southern-Summer School on Mathematical Biology 🔗 2016 Population dynamics modeling in ecology and epidemiology. One week.	
CERTIFICATIONS	English: TOEFL score 88 (read:23, listen:21, speak:20, write:24). Test date: 14 Dic 2020 Biomedical Research - Basic/Refresher: CITI program. Expiration date: 04 May 2021 Responsible Conduct in Research: QUIPU program - Peru. Completion date: 05 May 2018	