







# Andree Valle Campos

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INTERESTS	Systems developmental biology. Quantitative and Bioengineering approaches. Reproducibility. Open science. Teaching with evidence-based best-practices.		
EDUCATION	2018-2018	<b>Master of Science in Epidemiological Research</b> Universidad Peruana Cayetano Heredia (UPCH), Lima-Peru Rank: Top fifth among 28 students.	
	2011-2015	<b>Bachelor of Science in Genetics and Biotechnology</b> Universidad Nacional Mayor de San Marcos (UNMSM), Lima-Peru Rank: Top third at the 4th term among 30 students.	
AFFILIATIONS	2019-2020.	<b>National Center for Epidemiology (CDC Peru)</b> Epidemiological Research and Surveillance Group, Ministry of Health.	<b>Researcher</b>
	2017-2019	<b>Universidad Peruana Cayetano Heredia (UPCH)</b> , Peru. Emerge, Emergent Diseases and Climate Change Research Unit.	<b>Intern</b>
	2016-2017	<b>Universidad Nacional de la Amazonía Peruana (UNAP)</b> , Peru. Fundación para el Desarrollo Sostenible de la Amazonía Baja.	<b>Consultant</b>
	2015-2016	<b>U.S. Naval Medical Research Unit Six (NAMRU-6)</b> , Peru. Dept. of Parasitology, Div. of Immunology and Vaccine Development.	<b>Intern</b>
PUBLICATIONS (N=8)	<b>Peer-reviewed (n=6)</b>		
	-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: <a href="https://doi.org/10.1016/j.eclinm.2021.100801">10.1016/j.eclinm.2021.100801</a>  . -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: <a href="https://doi.org/10.3390/ijerph17207434">10.3390/ijerph17207434</a>  . -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: <a href="https://doi.org/10.35434/rcmhnaaa.2020.131.627">10.35434/rcmhnaaa.2020.131.627</a>  . -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: <a href="https://doi.org/10.1016/j.idm.2020.05.001">10.1016/j.idm.2020.05.001</a>  . -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: <a href="https://doi.org/10.17843/rpmesp.2020.372.5461">10.17843/rpmesp.2020.372.5461</a>  . -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: <a href="https://doi.org/10.1186/s12936-018-2471-6">10.1186/s12936-018-2471-6</a>  . <b>Non-peer-reviewed (n=2)</b> -[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: <a href="https://ojo-publico.com">ojo-publico.com</a>  . -[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: <a href="https://doi.org/10.5281/zenodo.4014211">10.5281/zenodo.4014211</a>  .		
GRANTS, AWARDS AND RECOGNITIONS	<b>Scholarship.</b> Emerge Training Grant NIH/FIC TG D43 TW007393	2018	USD 10,644
	<b>Grant.</b> Undergraduate research: Camelid Reproduction Group - UNMSM	2014	USD 500
	<b>Ranked 1<sup>st</sup>.</b> UPCH X Summer Course on Molecular Biology (40 students)	2013	
	<b>Ranked 1<sup>st</sup>.</b> UNMSM Admission Test to Basic Sciences (1000 applicants)	2011	
COMPUTATIONAL SKILLS	<b>Statistical programming:</b> R (proficient), package developer: <a href="#">serosurvey</a> , <a href="#">covid19viz</a> , more. <b>Programming Language:</b> Bash (Unix shell, fluent), Python (basic), Stata (fluent). <b>OS, Text editor, &amp; more:</b> GNU/Linux (Ubuntu). L <sup>A</sup> T <sub>E</sub> X, R Markdown. SublimeText. Git.		

CONFERENCE PRESENTATIONS	<b>serosurvey: Serological Surveys and Prevalence Estimation Under Misclassification.</b> 2021 Elevator pitch at the useR! Conference. Online. <a href="#">🔗</a> <a href="#">🔗</a>	
	<b>[Epidemiological analysis of the epidemic of Guillain Barré Syndrome in Peru.]</b> 2019 Poster presentation at the INS International Scientific Congress. Lima, Peru. <a href="#">🔗</a> <a href="#">🔗</a>	
	<b>Human mobility and malaria history in a periurban community in Iquitos, Peru.</b> 2019 Poster presentation at the ASTMH Annual Meeting. Maryland, USA. <a href="#">🔗</a> <a href="#">🔗</a>	
	<b>In vitro effect of ELF Magnetic Field on the sperm motility of Alpacas</b> 2015 Poster, Annual Meeting of the Bioelectromagnetics Society, BioEM2015. Monterey, USA. <a href="#">🔗</a> <a href="#">🔗</a>	
WORKSHOP INSTRUCTOR	<b>Outbreak Analytics and Modelling for Public Health, Colombia-Peru</b> <a href="#">🔗</a> <a href="#">🐦</a> 9 hours 2021 Part of organizing committee. Workshop coordinator. Tutorial contributor. 100 students.	
	<b>[Basic R applied to disease surveillance and outbreak analysis]</b> <a href="#">🔗</a> 6 hours 2021 Introduction to R projects and ggplot2 graphics for Ministry of Health personel. 30 students.	
	<b>[Epidemiological analysis using R]</b> <a href="#">🔗</a> 4 hours 2019 Applications to case-control, cohort and time to event study designs. 30 students.	
	<b>[Introduction to Inferential Statistics for biologist]</b> <a href="#">🔗</a> 6 hours 2019 Introduction to R, Linear models and Multiple comparison. 40 students.	
	<b>[Reproducible science and Microarray analysis]</b> <a href="#">🔗</a> 8 hours 2017/19 Designs, statistics and visualizations with Bioconductor and Tidyverse. 50/20 students.	
LECTURES	<b>[Data analysis in epidemiological surveillance I: time, space, person]</b> <a href="#">🔗</a> 2 hours 2021 Descriptive and statistical analysis of outbreaks. 35 grad students.	
	<b>[Visualizing public health and field epidemiology data]</b> <a href="#">🔗</a> 2 hours 2021 Dashboards as tools for decision making in public health. 30 grad students.	
	<b>Teacher Assistant.</b> At the Master's of Science in Epidemiological Research. <a href="#">🔗</a> 1 year 2019 In charge of practical sessions, monthly reviews, and test correction. 48 grad students.	
	<b>[On #tardigate and Horizontal Gene Transfer bioinformatics]</b> <a href="#">🔗</a> 2 hours 2016 Review of the controversy around the first tardigrade genome. 5 undergrad students.	
	<b>[Gene Regulatory Networks: Topology and Dynamics]</b> <a href="#">🔗</a> 3 hours 2015-18 Applications from Graph Theory and Finite Automata. 10 undergrad students.	
TALKS	<b>[Analysis of #multiple epidemics and prevalences with R and purrr.]</b> <a href="#">🔗</a> 50 part. 2020	
	<b>[Hypothesis testing with nonparametric statistical methods.]</b> <a href="#">🔗</a> 30 participants. 2020	
	<b>[How to use R for Epidemiology at CDC Peru?]</b> <a href="#">🔗</a> 25 participants. 2019	
SHORT COURSES	<b>[Online teaching 101]</b> <a href="#">🔗</a> <b>[How to teach programming online]</b> <a href="#">🔗</a> 2021 Techniques to design programming courses and evaluate students. One day.	
	<b>Outbreak Analytics and Modelling for Public Health, Colombia</b> <a href="#">🔗</a> <a href="#">🔗</a> 2019 Dynamic modeling in response to outbreaks and interventions. One week.	
	<b>CODATA-RDA Research Data Science School 2017</b> <a href="#">🔗</a> <b>and 2020</b> <a href="#">🔗</a> 2017/20 Data management, open science, machine learning and infrastructure. Two weeks.	
	<b>[Minicourse on Spatio-Temporal Models in Epidemiology]</b> <a href="#">🔗</a> 2017 Theory and practice of areal data, point pattern analysis and geostatistics. Two days.	
	<b>Working with Parasite Database Resources</b> <a href="#">🔗</a> 2016 Genomic, proteomic, metabolomic applications of eupathdb.org. One week.	
	<b>School on Physics Applications in Biology</b> <a href="#">🔗</a> 2016 Game theory, non-linear dynamics and statistical physics. Three week.	
	<b>V Southern-Summer School on Mathematical Biology</b> <a href="#">🔗</a> 2016 Population dynamics modeling in ecology and epidemiology. One week.	
CERTIFICATIONS	<b>English:</b> TOEFL score 88 (read:23, listen:21, speak:20, write:24). Test date: 14 Dic 2020 <b>Biomedical Research - Basic/Refresher:</b> CITI program. Expiration date: 04 May 2021 <b>Responsible Conduct in Research:</b> QUIPU program - Peru. Completion date: 05 May 2018	