



Jose Pablo Gomez-Vazquez

DVM, MPVM, PhD.

website: <http://www.spablo-temporal.network>

Education:

PhD in Epidemiology (2017-2021)

University of California Davis, California, United States

Master in Preventive Veterinary Medicine (2016-2017)

University of California Davis, California, United States

Medicina Veterinaria y Zootecnia [Veterinary Medicine & Zootechnics] (2010-2015)

UANL, Escobedo N.L., Mexico

Profesional Experience:

Post doctoral researcher - Department of Veterinary Medicine and Epidemiology, University of California Davis. Davis, California, United States, *January 2022 - Current*

Graduate Student Researcher - Department of Veterinary Medicine and Epidemiology, University of California Davis. Davis, California, United States, *June 2020 - December 2021*

Graduate Student Researcher - Department of Population Health and Reproduction, University of California Davis. Davis, California, United States, *August 2019 - June 2020*

Graduate Student Researcher - One Health Institute, University of California Davis. Davis, California, United States, *January 2018 - March 2018*

Teaching Experience:

Health and Ecological Risk Analysis (EPI 224), Co-Instructor - University of California Davis. Davis, California, United States, *March 2022 - June 2022*

Spatial epidemiology (EPI 223), Teaching assistant - University of California Davis. Davis, California, United States, *March 2019 - June 2019*

Mathematical Statistics (EPI 203), Teaching assistant - University of California Davis. Davis, California, United States, *January 2019 - March 2019*

Medical statistics (MPM 204), Teaching assistant - University of California Davis. Davis, California, United States, January 2018 - March 2019

Workshops, trainings and other courses developed:

- Using R for reproducible research in animal health, offered at:
 - *Chattogram Veterinary and Animal Sciences University, Chattogram, Bangladesh*, May 2023
 - *The Ministry of Agriculture, Land and Fisheries MALF, Port of Spain, Trinidad and Tobago*, May 2023
- Interactive data visualization of complex systems with R shiny, offered at:
 - *Geovet 2023, Silvi Marina, Teramo, Italy*
 - *Bayarea Geo, University of San Francisco*, October 2022, 6 participants.
 - *Universidad Nacional Autonoma de Mexico, Virtual workshop*, March 2022, ~8 participants.
- Spatiotemporal analysis of social networks, offered at:
 - *International Conference in Animal Health Research (ICAHS), Copenhagen, Denmark*, May 2022
17 participants
 - *ASF NIFAF virtual workshop*, ~40 participants.
 - *Universidad Nacional Autonoma de Mexico, Mexico City, Mexico*, November, 2019, ~20 participants.
 - *Geovet 2019, University of California Davis*, October 2019, 9 participants
 - *Maptime Davis, University of California Davis*, February 2019, ~25 participants

Other workshops: Other workshops provided in the past have covered concepts in statistical programming, data visualization and spatial analysis with open access tools. Some of these workshops include:

- Fundamentos para el manejo y analisis de datos con R, *Instituto Nacional de Investigaciones Forestales Agricolas y Pecuarias, virtual workshop*, May 2022, ~20 participants.
- Geting started with R for inference in epidemiology, *Agencia de Regulación y Control Fito y Zoosanitario - AGROCALIDAD, Quito, Pichincha, Ecuador*, August 2018, 12 participants.

Publications:

- Ngoshe YB, Etter E, **Gomez-Vazquez JP**, Thompson PN. Knowledge, Attitudes, and Practices of Communal Livestock Farmers regarding Animal Health and Zoonoses in Far Northern KwaZulu-Natal, South Africa. International Journal of Environmental Research and Public Health. 2023; 20(1):511. <https://doi.org/10.3390/ijerph20010511>
- Ball EE, Pesavento PA, Van Rompay KKA, Keel MK, Singapuri A, **Gomez-Vazquez JP**, et al. (2022) Zika virus persistence in the male macaque reproductive tract. PLoS Negl Trop Dis 16(7): e0010566. <https://doi.org/10.1371/journal.pntd.0010566>
- **Gómez-Vázquez, J.P.**, García, Y.E., Schmidt, A.J. et al. Testing and vaccination to reduce the impact of COVID-19 in nursing homes: an agent-based approach. BMC Infect Dis 22, 477 (2022). <https://doi.org/10.1186/s12879-022-07385-4>
- Maier GU, Breitenbuecher J, **Gomez JP**, Samah F, Fausak E, Van Noord M. Vaccination for the Prevention of Neonatal Calf Diarrhea in Cow-Calf Operations: A Scoping Review. Vet Anim Sci. 2022 Feb 19;15:100238. doi: 10.1016/j.vas.2022.100238. PMID: 35243126; PMCID: PMC8866090.

- Emery CB, Outerbridge CA, Knych HK, Lam ATH, **Gómez-Vázquez JP**, White SD. Preliminary study of the stability of dexamethasone when added to commercial veterinary ear cleaners over a 90 day period. *Vet Dermatol.* 2021 Feb 2. doi: 10.1111/vde.12924. Epub ahead of print. PMID: 33528860.
 - **Gómez-Vázquez, J. P.**, Quevedo-Valle, M., Flores, U., Portilla Jarufe, K., & Martínez-López, B. (2019). Evaluation of the impact of live pig trade network, vaccination coverage and socio-economic factors in the classical swine fever eradication program in Peru. *Preventive Veterinary Medicine*, 162(May 2018), 29–37. <https://doi.org/10.1016/j.prevetmed.2018.10.019>
 - Garcia-Mazcorro JF, Castillo-Carranza SA, Guard B, **Gómez-Vázquez JP**, Dowd SE, Brighthsmith DJ. 2016. Comprehensive molecular characterization of bacterial communities in feces of pet birds using 16S marker sequencing. *Microbial Ecology* Epub ahead of print Aug 27 2016 DOI 10.1007/s00248-016-0840-7.
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Participation at conferences

Oral Presentations:

- An open access framework for quantitative rapid risk assessment, *International Symposium in Veterinary Epidemiology and Economics (ISVEE) 16, Halifax, Canada, 2022*.
- A framework for a quantitative rapid risk assessment open access tool, *Congreso Panamericano de Ciencias Veterinarias, November 2021, Virtual conference*
- Spatio-Temporal analysis of the trade network of the cattle industry in California, October 2019, *GeoVet 2019, Davis, California, United States*
- Evaluacion espacio-temporal de factores de riesgo para la ocurrencia de peste porcina clásica en Perú (Spatio-Temporal analysis for the CSF occurrence in Peru), October 2017, “*III SIEVMP (Iberoamerican society of veterinary epidemiology and preventive medicine) symposium*”, Valdivia, Chile.

Poster presentations:

- Spatial-explicit agent-based modeling to inform targeted surveillance and emergency response against foot-and-mouth disease in the last phase of eradication programs, *International Symposium in Veterinary Epidemiology and Economics (ISVEE) 16, Halifax, Canada, 2022*.
- Evaluation of vaccination and control strategies of porcine reproductive and respiratory syndrome (PRRS) in US sow farms using an agent-based approach, *International Symposium in Veterinary Epidemiology and Economics (ISVEE) 16, Halifax, Canada, 2022*.
- Spatial Explicit Agent based model to evaluate intervention strategies for FMD in Ecuador, *Congreso Panamericano de Ciencias Veterinarias, November 2021, Virtual conference*
- Identification of areas at risk for low immunity herds against Foot-and-Mouth disease virus in Ecuador using maximum entropy models, November 2018, “*International Symposium of Veterinary Epidemiology and Economics 15*”, Chiang Mai, Thailand
- Live pig trade network modeling and prediction using Network analysis and exponential random graph models in Peru, June 2018, *25th International Pig Veterinary Society Congress*, Chongqing Yuelai, China
- Herramientas bioinformáticas para el estudio de la microbiota intestinal” (Bioinformatics tools for gastrointestinal microbiota analysis), October 2015, “*XXVIII Congreso Nacional de Investigación en Medicina UANL*” (National symposium of Medical research UANL), Monterrey N.L., Mexico

- Perfil metabólico de comunidades microbianas en heces de aves en cautiverio” (Metabolic profiles of pet birds microbiota), October 2015, “*4th KALAANKAB Symposium*”, *Villahermosa, Tabasco, Mexico*

Other talks:

- Simulation modeling for the evaluation of the introduction and spread of ASF, 2nd Working meeting: The role of wildlife in potential spread of ASFv in the American Continent, GF-TADS, WOAH, March 2023
- Evaluacion de estrategias de control y prevencion de enfermedades transfronterizas mediante el uso de modelos de simulacion, 30^a Reunión anual CONASA, October 2022
- Aplicacion de modelaje para simular una emergencia de fiebre aftosa, SEMINARIO INTERNACIONAL PRE COSALFA 49 - “En el contexto de un estatus de libre sin vacunación, PAHO, WHO”, August 2022

Organization

- Management and local organizing team, *GeoVet 2019, Davis, California, United States*