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:

- Interactive data visualization of complex systems with R shiny, offered at:
  - *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), Coppenhagen, 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, Brigthsmith 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.

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", Chongging 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*

Organization

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