

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:

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

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

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

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

Teaching Experience:

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

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

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

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

Workshops and training provided:

Spatiotemporal analysis of social networks This workshop covers basic concepts of spatial analysis, network theory, and how to incorporate spatio-temporal dynamics in the analysis of contact networks. This workshop has been offered multiple times in both Spanish and English, having a wide variety of participants including academics, government and industry. In the past, the workshop has been 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 Agrícolas y Pecuarias, virtual workshop*, May 2022, ~20 participants.
- Interactive data visualization of complex structures with R shiny, *Universidad Nacional Autonoma de Mexico, Virtual workshop*, March 2022, ~8 participants.
- Herramientas geoestadísticas en epidemiología, *Agrocalidad, Quito, Pichincha, Ecuador*, August 12-15, 2019, ~20 participants.

Publications:

- 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.

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*

Organization

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