Daniel Romero-Alvarez

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Professional preparation

PhD Candidate. Department of Ecology & Evolutionary Biology and Biodiversity Institute, University of Kansas, Lawrence, Kansas, US (2017–present).
Supervisor: A. Townsend Peterson PhD.

Medical Doctor. School of Medicine, Universidad Central del Ecuador, Quito, Ecuador (2005–2012).

Appointments

Graduate research assistant (GRA). Digital epidemiology and ecology of infectious diseases. Department of Ecology and Evolutionary Biology, University of Kansas, Lawrence, Kansas, US (2020-present).
Supervisor: Folashade Agusto PhD, A. Townsend Peterson PhD.

Graduate teaching assistant (GTA). Human Anatomy Dissection Laboratory. Department of Ecology and Evolutionary Biology, University of Kansas, Lawrence, Kansas, US (2017–2020).
Supervisor: Víctor González PhD.

Epidemiologist. Hospital General Enrique Garcés, Quito–Ecuador (2016–2017).
Description: Data management and infectious disease control.
Supervisor: Viviana Quezada MD. Path.

Research Assistant. Unit of Molecular Parasitology & Tropical Medicine, Centro de Biomedicina, School of Medicine. Universidad Central del Ecuador (2012–2016).
Description: Medical direction for care and diagnostic of leishmaniasis patients. Collection of samples and vectors of infectious diseases: fecal samples, freshwater fishes and crabs, and sand flies in the tropical forest. Writing of research papers for projects of leishmaniasis, enteroparasites, paragonimiasis, and amphimeriasis.
Supervisors: Manuel Calvopiña PhD, Hiromu Sugiyama PhD, Yoshihisa Hashiguchi PhD

Medical Assistant. Hospital Carlos Andrade Marín, Quito–Ecuador (2012).
Description: Epidemiological surveillance of hospitalized patients diagnosed with Methicillin Resistant *Staphylococcus aureus* (MRSA) infections.

Supervisor: MSc. Jeannette Zurita.

Additional training

Remote Sensing. Information Systems and Modeling (A-1). Los Alamos National Laboratory, New Mexico, US (June-August, 2020).
Description: Geographical information system (GIS) in R with applications for satellite data using Google Earth Engine.
Supervisors: Carrie A. Manore PhD, Sara del Valle PhD

Digital epidemiology. Information Systems and Modeling (A-1). Los Alamos National Laboratory, New Mexico, US (June, 2018 and 2019).
Description: Digital surveillance for arbovirus diseases (Dengue, Chikungunya and Zika) with focus on Google Health Trends data.
Supervisors: Carrie A. Manore PhD, Sara del Valle PhD

Geospatial epidemiology. Department of Veterinary Population Medicine, University of Minnesota (February, 2016).
Description: One-month internship in ecological niche modeling applied to invasive biology and disease forecast.
Supervisors: Luis E. Escobar PhD, Nicholas Phelps PhD

Molecular biology. Unit of Molecular Parasitology & Tropical Medicine, Centro de Biomedicina, School of Medicine, Universidad Central del Ecuador (August, 2015).
Description: Update and workshop on PCR–RFLP applied to the identification of trematodes.
Supervisor: Hiromu Sugiyama PhD

Molecular biology. Department of Parasitology at the National Institute of Infectious Diseases. Tokyo–Japan (November, 2013).
Description: Collection of freshwater crabs and identification of *Paragonimus* spp. through molecular techniques.
Supervisor: Hiromu Sugiyama PhD

Publications | https://goo.gl/wv03cc

1. **Romero-Alvarez D**, Valverde-Muñoz G, Calvopina M, Rojas M, Cevallos W, Kumasawa H, Takagi H, Sugiyama H (2020). Liver fluke infections by Amphimerus sp. (Digenea: Opisthorchiidae) in definitive and fish intermediate hosts in Manabí province, Ecuador, *PLoS Neglected Tropical Diseases*, 14: e0008286 (IF = 4.487)

2. Simões M, **Romero-Alvarez D**, Nuñez-Penichet C, Jiménez L, Cobos ME (2020). General theory and good practices in ecological niche modeling: a basic guide. *Biodiversity Informatics*, 15: 67–68 (IF = NA).

3. Vignoles A, Banks WE, Klaric L, Kageyama M, Cobos ME, **Romero-Alvarez D.** Investigating relationships between technological variability and ecology in the Middle Gravettian (ca. 32-28 ky cal. BP) in France. *Peer Community in Archaeology*, doi: 10.31219/osf.io/ud3hj (IF = NA).

4. **Romero-Alvarez D**, Parikh N, Osthus D, Martinez K, Generous N, Del Valle S, Manore CA (2020). Google Health Trends performance reflecting dengue incidence for the Brazilian states. *BMC Infectious Diseases*, 20: 1–15 (IF = 2.951).

5. **Romero-Alvarez D**, Peterson AT, Salzer JS, Pittiglio C, Shadomy S, Traxler R, Vieira AR, Bower WA, Walke H, Campbell LP (2020). Potential distributions of *Bacillus anthracis* and *Bacillus cereus* biovar *anthracis* causing anthrax in Africa. *PLoS Neglected Tropical Diseases*, 14: e0008131 (IF = 4.487).

6. Ahadji-Dabla KM, **Romero-Alvarez D**, Djègbè I, Amoudji AD, Apétogbo YG, Djouaka R, Oboussoumi KF, Aawi A, Atcha-Oubou T, Peterson AT, Ketoh GK (2020). Potential roles of environmental and socio-economic factors in the distribution of insecticide resistance in *Anopheles gambiae sensu lato* (Culicidae: Diptera) across Togo, West Africa. *Journal of Medical Entomology*, in press (IF = 1.907).

7. Calvopina M, Atherton R, **Romero-Alvarez D**, Castaneda B, Valverde-Muñoz G, Cevallos W, Izurieta R (2019). Identification of intestinal parasite infections and associated risk factors in indigenous Tsáchilas communities of Ecuador. *International Journal of Academic Medicine*, 5: 171–179 (IF = NA).

8. Peterson AT, Anderson RP, Cobos ME, Cuahutle M, Cuervo-Robayo A, Escobar LE, Fernandez M, Jiménez-García D, Lira-Noriega A, Lobo JM, Machado-Stredel F, Martínez-Meyer E, Nuñez-Penichet C, Nori J, Osorio-Olvera L, Rodríguez T, Rojas-Soto O, **Romero-Alvarez D**, Soberón J, Varela S, Yañez-Arenas C (2019). Curso modelado de nicho ecológico, versión 1.0 [Spanish]. *Biodiversity Informatics,* 14: 1–7 (IF = NA).

9. Villacís JE, Bovera M, **Romero-Alvarez D**, Cornejo F, Albán V, Trueba G, Dorn HF, Reyes JA (2019). NDM-1 carbapenemase in *Acinetobacter baumannii* Sequence Type 32 in Ecuador. *New Microbes and New Infections*, 29: 100526 (CiteScore = 2.06).

10. Peterson AT, Anderson R, Beger M, Bolliger J, Brotons L, Burridge C, Cobos ME, Cuervo-Robayo A, Minin ED, Diez J, Elith J, Embling C, Escobar LE, Essl F, Feeley K, Green D, Hawkes L, Jiménez L, Jiménez-García D, Knop E, Kühn I, Lahoz-Monfort J, Lira-Noriega A, Lobo JM, Loyola R, Nally RM, Machado-Stredel F, Martínez-Meyer E, McCarthy M, Merow C, Nori J, Nuñez-Penichet C, Osorio-Olvera L, Pysek P, Rejmánek M, Ricciardi A, Robertson M, **Romero-Alvarez D**, Roura-Pascual N, Santini L, Schoeman D, Schröder B, Soberón J, Strubbe D, Thuiller W, Traveset A, Treml E, Vaclavik T, Varela S, Watson J, Wiersma Y, Wintle B, Yañez-Arenas C, Zurell D

(2019). Open access solutions for biodiversity journals: Don't replace one problem with another. *Diversity and Distributions*, 25: 5–8 (IF = 4.614).

11. Escobar LE, **Romero-Alvarez D,** Larkin DJ, Phelps NBD. (2018). Understanding lake connectivity to inform *Nitellopsis obtusa* spread in Minnesota. *Chinese Journal of Oceanology and Limnology* (IF = 0.717).

12. Cobos ME, Jiménez L, Nuñez-Penichet C, **Romero-Alvarez D**, Simões M (2018). Sample data and training modules for cleaning biodiversity information. *Biodiversity Informatics*, 14: 49–50 (IF = NA).

13. Calvopina M, **Romero-Alvarez D**, Díaz F, Cevallos W, Sugiyama H (2018). A comparison of Kato-Katz technique to three other methods for diagnosis of *Amphimerus* spp. liver fluke and the prevalence of infection in Chachi Amerindians of Ecuador. *PLoS One*, 13: e0203811 (IF = 2.806).

14. Astorga F, Escobar LE, Poo-Muñoz DA, Escobar-Dodero J, Rojas-Hucks S, Alvarado-Rybak M, Duclos M, **Romero-Alvarez D**, Molina-Burgos BE, Peñafiel-Ricaurte A, Toro F, Peña-Gómez FT, Peterson AT (2018). Distributional ecology of Andes Hantavirus: a macroecological approach. *International Journal of Health Geographics*, 17:22 (IF = 3.199).

15. Calvopina M, **Romero-Alvarez D**, Rendon M, Takagi H, Sugiyama H (2018). *Hypolobocera guayaquilensis* (Decapoda: Pseudothelphusidae): a new crab intermediate host of *Paragonimus mexicanus* in Manabí Province, Ecuador. *Korean Journal of Parasitology*, 56: 189–194 (IF = 1.82).

16. **Romero-Alvarez D**, Escobar LE (2017). Oropouche fever, an emergent disease from the Americas. *Microbes and Infection*, 20: 135–146 (IF = 2.15).

17. **Romero-Alvarez D**, Reyes J, Quezada V, Satán C, Cevallos N, Escobar LE, Villacís JE (2017). First case of New Delhi metallo-β-lactamase in *Klebsiella pneumoniae* from Ecuador: an update for South America. *International Journal of Infectious Diseases,* 65: 119–121 (IF = 2.53).

18. Román JP, García F, Medina D, Vásquez M, García J, Graham MR, **Romero-Alvarez D**, Pardal PDO, Ishikawa EY, Borges A (2017). Scorpion envenoming in Morona Santiago, Amazonian Ecuador: molecular phylogenetics confirms involvement of species in the *Tityus obscurus* group. *Acta Tropica*, 178: 1–9 (IF = 2.22).

19. Escobar LE, **Romero-Alvarez D**, Carver S, VandeWoude S, Crooks K, Lappin MR, Craft M (2017). Inferring the ecological niche of environmentally transmitted pathogens: *Toxoplasma gondii* and *Bartonella* spp. in wild felids. *Frontiers in Veterinary Science,* 4: 172. (IF = NA).

20. de Oliveira SV, **Romero-Alvarez D**, Martins TF, dos Santos JP, Labruna MB, Gaceta

GS, Escobar LE, Gurgel-Gonçalves R (2017). *Amblyomma* ticks and future climate: Range contraction due to climate warming. *Acta Tropica*, 176: 340–348 (IF = 2.22).

21. **Romero-Alvarez D,** Escobar LE, Varela S, Larkin DJ, Phelps NBD (2017). Forecasting distributions of an aquatic invasive species (*Nitellopsis obtusa*) under future climate scenarios. *PLoS One*, 12: e0180930 (IF = 3.54).

22. **Romero-Alvarez D**, Peterson AT, Escobar LE (2017). Surveillance fatigue (*fatigatio vigilantiae)* during epidemics. *Revista Chilena de Infectología*, 34: 289–290 (IF = 0.34).

23. **Romero-Alvarez D** & Escobar LE (2017). Vegetation loss and the 2016 Oropouche fever outbreak in Peru. *Memorias do Instituto Oswaldo Cruz*, 112: 292–298 (IF = 1.7).

24. Escobar LE, **Romero-Alvarez D,** León R, Lepe-López MA, Craft ME, Borbor-Córdova, MJ, Svenning JS (2016). Declining prevalence of disease vectors under climate change. *Scientific Reports*, 6: 39150. (IF = 5.5).

25. Calvopiña M, **Romero-Alvarez D**, Macias R, Sugiyama H (2016). Case report: severe pleuropulmonary paragonimiasis caused by *Paragonimus mexicanus* treated as tuberculosis in Ecuador. *American Journal of Tropical Medicine and Hygiene*, 96: 97–99 (IF = 2.45).

26. Kato H, Gomez EA, Martini-Robles L, Muzzio J, Velez L, Calvopiña M, **Romero-Alvarez D**, Mimori T, Uezato H, Hashiguchi Y (2016). Geographic distribution of *Leishmania* species in Ecuador based on the cytochrome b gene sequence analysis. *PLoS Neglected Tropical Diseases*, 10: e0004844 (IF = 4.45).

27. Takeda M, Sugiyama H, Kumasawa H, **Romero-Alvarez D**, Calvopiña M (2016). Recent collections of freshwater crabs from the Pacific and Amazonian regions of Ecuador, South America. *Journal of Teikyo Heisei University*, 27 (IF = NA).

28. Olalla HR, Velez LN, Kato H, Hashiguchi K, Caceres AG, Gomez E, Zambrano FC, **Romero-Álvarez D**, Guevara A, Hashiguchi Y (2015). An analysis of reported cases of leishmaniasis in the southern Ecuadorian Amazon region, 1986-2012. *Acta Tropica*, 146: 119–126 (IF = 2.27).

29. Hashiguchi K, Velez NL, Kato H, Criollo FH, **Romero-Alvarez D**, Gomez LE, Martini RL, Zambrano CF, Calvopiña HM, Caceres GA, Hashiguchi Y (2014). Sand fly fauna (Diptera, Pcychodidae, Phlebotominae) in different leishmaniasis-endemic areas of Ecuador, surveyed using a newly named mini-Shannon trap. *Tropical Medicine and Health*, 42: 163–170 (IF = NA).

30. Calvopiña M, **Romero D**, Castañeda B, Hashiguchi Y, Sugiyama H (2014). Current

status of Paragonimus and paragonimiasis in Ecuador. *Memórias Do Instituto Oswaldo Cruz*, 109: 849–855 (IF = 1.592).

31. Takeda M, Sugiyama H, Calvopiña M, **Romero-Alvarez D** (2014) Some freshwater crabs from Ecuador, South America. *Journal of Teikyo Heisei University*, 25 (IF = NA).

32. Calvopiña Hinojosa M, **Romero-Alvarez D**, Kato H, Hashiguchi Y (2014). Cutaneous sporotrichoid lesion in a patient from a subtropical region of Ecuador. *Enfermedades Infecciosas y Microbiologia Clinica*, 32: 465–466 (IF = 2.172).

Submitted manuscripts

1. **Romero-Alvarez D**, Garzon-Chavez D, Espinosa F, Reyes J. Cycle threshold values in the context of multiple RT-PCR testing for SARS-CoV-2. *Journal of Medical Virology* (Submitted).

2. Garzon-Chavez D, **Romero-Alvarez D**, Bonifaz M, Gaviria J, Mero D, Gunsha N, Perez A, Garcia M, Espejo H, Espinosa F, Ligña E, Espinel M, Quentin E, Teran E, Mora F, Reyes J. Adapting for the COVID-19 pandemic in Ecuador, a characterization of hospital strategies and patients. *PLoS One* (In review).

3. Banks WE, Moncel M-H, Raynal J-P, Cobos ME, **Romero-Alvarez D**, Woillez M-N, Faivre J-P, Gravina B, d'Errico F, Locht J-L. An ecological niche shift for Neanderthal populations in Western Europe 70,000 years ago. *Nature Ecology and Evolution* (submitted).

4. Mattingly S, Hardesty E, Chovanec K, Cobos ME, Garcia J, Grizzle M, Huerta A, Ohtake J, **Romero-Alvarez D**, Gonzalez VH (2020). Cadaveric prosections: differences between *in situ* and *ex situ* materials concerning students' identification ability. *Anatomical Sciences Education* (In review).

Other publications

1. **Romero-Alvarez, D.** The dark side of open access. (2018). [Internet]. Available at: https://oanarchy.wordpress.com/2018/11/30/the-dark-side-of-open-access/. Spanish version available at: http://latinamericanscience.org/spanish/2018/12/el-lado-oscuro-del-acceso-abierto/

2. **Romero-Alvarez D.**, Quezada V. La eterna amenaza de la resistencia bacteriana (2017). [Internet]. Available at: http://latinamericanscience.org/spanish/2017/05/la-eterna-amenaza-de-la-resistencia-bacteriana/

3. **Romero-Alvarez D**, Escobar LE. NicheA. User Guide Version 1. (2017). [Internet]. Available at: https://www.romerostories.com/post/niche-analyst-nichea-tutorial-manual

Awards/Grants

- CAPES (Coordenação de aperfeiçoamento de pessoal de nivel superior, Portugues), Brazil: **"Prevention and control of outbreaks, endemic, epidemic, and pandemic diseases",** call nº 9/2020, process nº 23038.003012/2020-16. Mapping risk areas of zoonotic epidemics in Brazil in the environmental, socio-demographic, epidemiologic, and climate change context. (2020-2023).

- The University of Kansas, Biodiversity Institute. **Panorama Small Grant Program – Spring 2020 competition** (March, 2020)

- Los Alamos National Laboratory. **Center for Nonlinear Studies (CNLS) Student Summer Program 2020** (February, 2020).

- The University of Kansas, Department of Ecology and Evolutionary Biology. **Summer Research Support** (May, 2019).

- The University of Kansas, College of Liberal Arts and Sciences. **Research Excellence Initiative – Time Sensitive and Urgency Funds** (February, 2019).

- The University of Kansas. GIS Day Poster Competition. Potential distribution of a newly *Bacillus* species causing anthrax in African rainforests. **First place & Crowd Favorite** (November, 2018).

- The University of Kansas, College of Liberal Arts and Sciences. **Research Excellence Fund in the College – Conference Sponsorship Fund (CME)** (February, 2018).

Presentations

Lectures

Deka MA, Gee, JE, Mindy Glass Elrod MG, Liu L, Bower WA, Salzer JS, **Romero-Alvarez D**, Alkishe AA, Peterson AT. Predicting the distribution of *Burkholderia pseudomallei* in the Americas using ecological niche modeling. 2019 Place & Health Conference. Centers for Disease Control and Prevention (CDC), Atlanta, Georgia, US (November, 2019).

Romero-Alvarez D, Jimenez L, Jimenez D. Niches, wildlife and diseases: how nature copes with change? Latin American Graduate Organization–Symposium Night. Lawrence, Kansas, US (October, 2019).

Romero-Alvarez D, Del Valle S, Manore CA. Can Google Health Trends anticipate Dengue incidence in Brazil? (Spanish). Carrera de Biomedicina, Universidad Internacional SEK Ecuador. Quito, Ecuador (July, 2019).

Romero-Alvarez D, Del Valle S, Manore CA. Google Health Trends accuracy to reflect dengue incidence at the Brazilian states. Information Systems and Modeling (A-1), Los Alamos National Laboratory. New Mexico, US (June, 2019).

Romero-Alvarez D. Disease mapping. Ecological Niche Modeling Course, 2018 (Spanish). Online course. Available at: https://www.youtube.com/watch?v=PuTtQHJ3dVQ&feature=youtu.be (July, 2018)

Romero-Alvarez D, Lepe-Lopez MA, León R, Borbor-Cordova M, Escobar LE Climate change may decline prevalence of disease vectors in Ecuador. 66th Annual Meeting of the America Society of Tropical Medicine and Hygiene (ASTMH 2017). Baltimore, Maryland, US (November, 2017).

Quezada V, Reyes J, Villacís E, **Romero-Alvarez D.** First report of NDM-1 in *Klebsiella pneumoniae* in Ecuador (Spanish). API Panamá 2017. XVIII Congreso Panamericano de Infectología. VI Congreso Nacional de Enfermedades Infecciosas. Ciudad de Panamá, Panamá (May, 2017).

Romero-Alvarez D. Intrahospitalary outbreak control (Spanish). Plan para la implementación de la notificación y seguimiento de brotes nosocomiales en las unidades privadas. Coordinación Zonal 9 – Ministerio de Salud Pública del Ecuador. Quito, Ecuador (May, 2017).

Romero-Alvarez D. Geographical epidemiology (Spanish). II Seminario de "Actualización en Enfermedades Infecciosas". Sociedad Ecuatoriana de Infectología. Quito, Ecuador (March, 2017).

Romero-Alvarez D, Lepe-López M, Escobar LE. Potential distribution of *Aedes aegypti* and *Aedes albopictus* in the present and future of Ecuador (Spanish). II Encuentro Científico CIZ – UCE 2016. Quito, Ecuador (October, 2016).

Romero-Alvarez D, Lepe-López MA, Borbor-Córdova MJ, Craft ME, León R, Escobar LE Zika virus and *Aedes aegypti* in Ecuador: Perfect areas for new cases? (Spanish). IV Encuentro Internacional en Investigación de Enfermedades Infecciosas y Medicina Tropical. Quito, Ecuador (June, 2016).

Romero-Álvarez D, Calvopiña M, Castañeda B, Hashiguchi Y, & Sugiyama H. Current situation of *Paragonimus* and paragonimiasis in Ecuador (Spanish). II Latin American Network of Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases. III Encuentro Nacional de Investigación de Enfermedades Infecciosas y Medicina Tropical. Quito, Ecuador (July, 2014).

Kato H, Gómez E, Martini L, Muzzio J, Velez L, **Romero-Álvarez D**, Calvopiña M, & Hashiguchi Y. Cutaneous and mucocutaneous leishmaniasis and their causative agents,

vector sandflies and reservoir hosts in Ecuador. XXI Parasitology Latinoamerican Conference. Sociedad Ecuatoriana de Medicina Tropical y Parasitología. FLAP. Quito, Ecuador (October, 2013).

Posters

Romero-Alvarez D, Campbell LP, Peterson AT. Potential distribution of a newly *Bacillus* species causing anthrax in African rainforests. GIS Day Poster Competition. The University of Kansas (Awarded first place and crowd favorite) (November, 2018).

Cobos ME, Jiménez L, Nuñez-Penichet C, **Romero-Alvarez D**, Simões M. Sample data and training modules for cleaning biodiversity information. GIS Day Poster Competition. The University of Kansas (November, 2018).

Romero-Alvarez D, Escobar LE. Emergent viruses in America: The case of Oropouche virus. 18th International Congress on Infectious Diseases, selected for moderated poster presentation (ICID 2018) (March, 2018).

Valverde-Muñoz GS, **Romero-Alvarez D.** Measuring the epidemiological uncertainty in snakebite case reports in 2016 Ecuador. 18th International Congress on Infectious Diseases (ICID 2018). Available at: 10.1016/j.ijid.2018.04.3894 (March, 2018).

Romero-Alvarez D, Lepe-Lopez MA, León R, Borbor-Cordova M, Escobar LE. Climate change may decline prevalence of disease vectors in Ecuador. 66th Annual Meeting of the America Society of Tropical Medicine and Hygiene (ASTMH 2017) (November, 2017).

de Oliveira SV, **Romero-Alvarez D**, Martins TF, de Araújo-Vilges KM, Santos JP, Labruna MB, Gaceta GS, Escobar LE, Salles G, Gurgel-Gonçalves R. Climate change and the *Amblyomma cajennense* complex (Acari: Ixodidae) in Brazil. XIX International Congress for Tropical Medicine and Malaria 2016 (ICTMM 2016) (September, 2016).

Romero-Alvarez D, Valverde-Muñoz G, Sugiyama H, Kumasawa H, Calvopiña M. Formas de transmisión de *Amphimerus* sp.: Peces de río y metacercarias. IV Encuentro Internacional en Investigación de Enfermedades Infecciosas y Medicina Tropical (June, 2016).

Aterthon R, **Romero-Álvarez D**, Valverde-Muñoz G, Calvopiña M. Prevalence of intestinal parasites and associated risk of infection in Tsachilas communities of Santo Domingo Ecuador. II Latin American Network of Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases. III Encuentro Nacional de Investigación de Enfermedades Infecciosas y Medicina Tropical (July, 2014).

Romero, D, Calvopiña M. *Paragonimus* and Paragonimiasis in Ecuador. Third World Summit on Evolution, Galapagos Island-Ecuador. (July, 2013).

Workshops co-instructor

Escobar LE, Yumiseva C, **Romero-Álvarez D.** Biodiversity Informatics: Applications in Public Health. IV International Meeting on Infectious Diseases Research and Tropical Medicine. Quito, Ecuador (June, 2016).

Escobar LE, Escobar-Dodero J, Kinsley A, Phelps N, **Romero-Alvarez D**, VanderWaal K. Disease Modeling in Aquatic Ecosystems. Saint Paul, Minnesota, US (February, 2016).

Calvopiña M, Cevallos W, **Romero-Álvarez D**, Loor R. Update on the situation, diagnosis and treatment of leishmaniases in Ecuador (Spanish). Centro de Salud San Miguel de los Bancos, Centro de Salud de Puerto Quito, Norocidente de Pichincha – Ecuador (November, 2014).

Calvopiña M, Cevallos W, **Romero-Álvarez D**. Pre-Congress Workshop on Leishmaniasis. "Eco-epidemiology of cutaneous leishmanisis in a subtropical region of Ecuador (Northwestern Pichincha)" (Spanish). II Latin American Network of Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases. III Encuentro Nacional de Investigación de Enfermedades Infecciosas y Medicina Tropical. Pichincha, Ecuador (July, 2014).

Reviewer

- Journal of Vector Ecology
- Parasites & Vectors
- Peer J
- PLoS NTD
- BMC Infectious Diseases
- PLoS One
- Vector Borne and Zoonotic Diseases
- Proceedings of the National Academy of Sciences B
- Journal of Health Care Informatics
- Ecography
- Ecology and Evolution
- Scientific Data
- Transboundary and Infectious Diseases
- Environmental Entomology
- Journal of Medical Entomology
- Scientific Reports
- CDC Emerging Infectious Diseases
- EcoHealth
- Grant proposals: Universidad de las Américas, Ecuador

Scientific communication and outreach

***Science communication on infectious diseases*.** Science blogging and visual communication in social media on infectious disease discovery and research (2016-present). http://www.romerostories.com

***Science Writing*.** Editor, designer, and researcher of the science communication magazine "Antorcha Verde" (Spanish). Sociedad de Divulgación Científica Quinto Pilar. (2013-2016). http://issuu.com/quinto_pilar

***Science blogging* (Spanish).** Sociedad de Divulgación Científica Quinto Pilar. (2008-2016). http://quintopilar.blogspot.com

Lectures to improve scientific outreach in Ecuadorian community. Topics: science, astronomy, biology and neuroscience.

***Meeting organizer**:* World Space Week in Ecuador. Sociedad de Divulgación Científica Quinto Pilar. Promoted by United Nations (October, 2013).

Skills

Spatial epidemiology: Management of GIS in QGIS, R, and ArcGIS software, remote sensing, ecological niche modeling, and map design.

Molecular biology: Basic techniques on DNA extractions, PCR, PCR-RFLP

Management of Adobe package software: Photoshop, Illustrator, InDesign

Languages

Spanish: First language

English: Professional Proficiency

- Story Circles Narrative Training. Certificate of narrative training (February, 2019).
- Contributor as Spanish translator in the non-profit project "Out of Eden Walk" hosted by Pulitzer winner Paul Salopek: (http://www.outofedenwalk.com/dispatches/translations/es/)
- TOEFL – SCORE 2016: 102/120

Professional references

A. Townsend Peterson, PhD
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University of Kansas, Lawrence, KS, USA.
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Manuel Calvopiña MD, MSc, DTM&H, PhD
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Hiromu Sugiyama, DVM. PhD
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