Daniel G. Streicker

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EDUCATION

2006 – 2011 **University of Georgia, Odum School of Ecology,** Ecology, PhD *Viral host shifts: ecological dynamics, cross-species transmission and host adaptation in bat rabies.* Advised by Sonia Altizer and Pejman Rohani.

2000 – 2004 **University of Virginia,** Psychology (B.A.) and Biology (minor) *Host community heterogeneity and parasite risk in small mammals*. Advised by Amy Pedersen and Janis Antonovics.

APPOINTMENTS & EXPERIENCE

2022 – pres. **Professor of Viral Ecology**, University of Glasgow
2021 – 2022 **Reader**, University of Glasgow
2019 – pres. **Wellcome Trust Senior Research Fellow**, University of Glasgow
2014 – 2020 **Adjunct Graduate Faculty**, Odum School of Ecology, University of Georgia
2013 – 2018 **Wellcome Trust/Royal Society Sir Henry Dale Research Fellow**, University of Glasgow
2012 – 2013 **Postdoctoral Research Associate**, Odum School of Ecology, University of Georgia
2004 – 2006 **Emerging Infectious Diseases Training Fellow**, Rabies Laboratory, Centers for Disease Control and Prevention
2004 **Intern,** Consortium for Conservation Medicine (now EcoHealth Alliance).
2002 – 2004 **Research Assistant**, Department of Biology, University of Virginia.
2003 **Research Experiences for Undergraduates (REU) Program,** at Mountain Lake Biological Station, University of Virginia.

GRANTS & FELLOWSHIPS

2020 – 2025 **Wellcome Trust Senior Research Fellowship**. *Data-driven interventions to prevent bat virus emergence* (£1,924,975, PI: Streicker; 217221/Z/19/Z)

2020 – 2023 **NSF-BBRSC Ecology and Evolution of Infectious Diseases Grant**. *US-UK collaboration: Integrating ecology, epidemiology, and human interests for strategic management of zoonoses in complex wildlife reservoirs* (UK: £540,828, PI: Streicker; US: $1,695,140, PI: Osorio, BB/V003798/1; DEB 2011069)

2018 – 2023 **Human Frontier Science Program**. *Probing persistence paradigms: synthetically, immunologically and ecologically* ($1,050,000; RGP0013/2018, PI: Felix Drexler)

2018 – 2021 **NERC Standard Grant**. *The impact of resource availability on parasite transmission: insights from a natural multi-parasite community*. (£631,347; NE/R011397/1, PI: Amy Pedersen).

2018 – 2019 **Wellcome Institutional Strategic Support Fund (ISSF) ECR Catalyst Grant**. *Investigating a novel deltavirus in vampire bats* (£17,357, PI: Streicker, project designed by Laura Bergner)

2014 – 2019 **Wellcome Trust/Royal Society Sir Henry Dale Fellowship**. *Managing viral emergence at the interface of bats and livestock* (£976,385, Grant 102507/Z/13/Z, PI: D. Streicker)

2017 – 2018 **Royal Society Challenge Grant**. *Towards oral vaccination of vampire bats for rabies control in Latin America* (£96,253, CH160097, PI: Streicker)

2016 – 2019 **Leverhulme Trust Research Grant**. *From observation to intervention: overcoming weak data with new approaches to complex biological problems* (£181,909, Grant RPG-2015-259, PIs: Dan Haydon & Mafalda Viana)

2016 – 2017 **CONCYTEC Basic Research Grant**. *The role of the vampire bat in the transmission of bacteria resistant to antibiotics used in humans and livestock* (£80,000, Grant 003-2016-FONDECYT, PIs: Carlos Shiva and Nestor Falcon)

2016 – 2018 **National Science Foundation Doctoral Dissertation Improvement Grant**. *Dissertation Research: Consequences of resource heterogeneity for immune defense, connectivity, and rabies dynamics in vampire bats* ($19,499, ~£14,743; DEB-1601052, PI: Dan Becker).

2013 **National Science Foundation Postdoctoral Fellowship in Biology** (2 years, $138,000, *declined for Sir Henry Dale Fellowship*)

2010 – 2014 **National Science Foundation Research Grant**. *Demographic and behavioral responses to resource shifts and the transmission of rabies in vampire bats* ($580,000; NSF DEB 1020966; PIs: S. Altizer and P. Rohani; Project designed by D. Streicker).

2009 – 2010 **CDC/UGA Research Collaboration in Infectious Disease** ($92,000, PIs: S. Altizer and C. Rupprecht; Project designed by D. Streicker)

2010 Odum School of Ecology Small Grant for Graduate Research ($900)

2007 – 2010 National Science Foundation Graduate Research Fellowship ($122,500)

2008 National Geographic Young Explorers Grant ($5,000)

2007 American Philosophical Society, Lewis and Clark Explorers Grant ($4,900)

2007 – 2008 Latin American and Caribbean Studies Summer Research Travel Award ($2,100)

2004 – 2006 CDC/APHL Emerging Infectious Diseases Training Fellowship ($49,000)

AWARDS

2020 Philip Leverhulme Prize (£100,000)

2015 National Geographic Emerging Explorer ($10,000)

2014 Wellcome-Beit Prize (£25,000, ~$41,767)

2014 Royal Society of Edinburgh International Exchange Programme (£500)

2013 *Science* and SciLifeLab Prize for Young Scientists – Grand Prize ($25,000)

2013 Robert C. Anderson Memorial Award for Best Dissertation in the Life Sciences at the University of Georgia ($1000)

2013 University of Georgia 'Darwin Days,' Best Postdoctoral Poster

2011 Odum School of Ecology Best Student Paper Award ($250)

2011 University of Georgia Dissertation Completion Award ($13,268)

2009 University of Georgia Graduate Student Travel Award ($1,200)

2008 AAAS/*Science* Program for Excellence in Science

2007, 2008 Ecology and Evolution of Infectious Diseases Conference Travel Award ($500)

2007 1st place PhD student presentation, Ecology Graduate Student Symposium ($250)

2005 Evolution of Infectious Diseases Symposium Travel Award ($500)

2004 Phi Beta Kappa Honor Society

2003 NSF Research Experiences for Undergraduates Internship

2003 Harrison Undergraduate Research Award

PUBLICATIONS (**student/**postdoc led*)

1. * Meza, D., Broos, A., Recuenco, S., Mollentze, N., Tello, C., Valderrama, W., Carrera, J., Shiva, C., Falcon, N., Viana, M. & **Streicker, D.G.** Ecological determinants of rabies dynamics in vampire bats and spillover to livestock. **Proceedings of the Royal Society B** (in press)

2. Taylor, E., Aguilar-Ancori, E.G., Banyard, A.C., Abel, I., Mantini-Briggs, C., Briggs, C.L., Carrillo, C., Gavidia. C.M, Castillo-Neyra, R., Parola, A.D., Villena, F.E., Prada, J.M., Petersen, B.W., Falcon Perez, N., Cabezas Sanchez, C., Sihuincha, M., **Streicker, D.G.**, Maguina Vargas, C., Navarro Vela, A.M., Vigilato, M.A.N., Wen Fan, H., Willoughby, R., Horton, D.L., Recuenco, S. (2022) The Amazonian Tropical Bites Research Initiative (ATBRI), a hope for resolving zoonotic neglected tropical diseases in the One Health era. **International Health** https://doi.org/10.1093/inthealth/ihac048

3. Condori Condori R.E., Aragon, A., Breckenridge, M., Pesko, K., Mower, K., Ettestad, P., Melman, S., Velasco-Villa, A., Orciari, L.A., Yager, P., **Streicker, D.G**., Gigante, C.M., Morgan, C., Wallace, R. & Li, Y. (2022) Divergent rabies virus variant of probable bat origin in 2 gray foxes, New Mexico. **Emerging Infectious Diseases** https://doi.org/10.3201/eid2806.211718

4. * Griffiths, M.E., Broos, A., Bergner, L.M., Meza, D.K, Suarez, N.M., da Silva Filipe, A., Tello, C, Becker, D.J., & **Streicker, D.G**. (2022) Longitudinal deep sequencing informs vector selection and future deployment strategies for transmissible vaccines. **PLoS Biology** https://doi.org/10.1371/journal.pbio.3001580

5. Ying Shi Chua, P., Carøe, C., Crampton-Platt, A., Sarai Reyes-Avila, C., Jones, G., Streicker, D. G., & Bohmann, K. (2022). A two-step metagenomics approach for prey identification from the blood meals

of common vampire bats (*Desmodus rotundus*). **Metabarcoding and Metagenomics**. https://doi.org/10.3897/mbmg.6.78756

6. Guth, S. E., Mollentze, N., **Streicker, D. G.**, Boots, M., & Brook, C. E. (2022) Bats host the most virulent – but not the most dangerous – zoonoses. **Proceedings of the National Academy of Sciences of the USA** https://doi.org/10.1101/2021.07.25.453574

7. ** Benavides, J.A, Godreuil, S., Opazo-Capurro, A., Mahamat, O.O., Falcon, N., Oravcova, K., **Streicker, D.G.**, Shiva, C. (2022) Long-term maintenance of multidrug-resistant Escherichia coli carried by vampire bats and shared with livestock in Peru. **Science of The Total Environment**, *810*, 152045. https://doi.org/10.1016/J.SCITOTENV.2021.152045

8. ** Mollentze, N., Babayan, S., & **Streicker, D.G.** (2021) Identifying and prioritizing potential human-infecting viruses from their genome sequences. **PLoS Biology** 19(9): e3001390 https://doi.org/10.1371/journal.pbio.3001390

9. Shaw, A. E., Rihn, S. J., Mollentze, N., Wickenhagen, A., Stewart, D. G., Orton, R. J., Kuchi, S., Bakshi, S., Collados, M. R., Turnbull, M. L., Busby, J., Gu, Q., Smollett, K., Bamford, C. G. G., Sugrue, E., Johnson, P. C. D., Silva, A. F. Da, Castello, A., **Streicker, D. G.**, Robertson, D.L., Palmarini, M. & Wilson, S. J. (2021). The antiviral state has shaped the CpG composition of the vertebrate interferome to avoid self-targeting. **PLoS Biology** https://doi.org/10.1371/journal.pbio.3001352

10. Fuentes-Castillo, D., Shiva, C., Lincopan, N., Sano, E., Fontana, H., **Streicker, D. G.,** Mahamat, O. O., Falcon, N., Godreuil, S., & Benavides, J. A. (2021) Global high-risk clone of ESBL-producing Klebsiella pneumoniae ST307 emerging in livestock of Peru. **International Journal of Antimicrobial Agents** https://doi.org/10.1016/j.ijantimicag.2021.106389

11. Hosie, M.J., Epifano, I., Herder, V., Orton, R.J., Stevenson, A., Johnson, N., MacDonald, M., Dunbar, D., McDonald, M., Howie, F., Tennant, B., Herrity, D., Da Silva Filipe, A., **Streicker, D.G.,** Willett, B.J., Murcia, P.R., Jarrett, R.F, Robertson, D.L., Weir, W. and the COVID-19 Genomics UK (COG-UK) consortium. (2021) Detection of SARS-CoV-2 in respiratory samples from cats in the UK associated with human-to-cat transmission **Veterinary Record** http://doi.org/10.1002/vetr.247

12. * Bergner, L.M., Mollentze, N., Orton, R.J., Tello, C., Broos, A., Biek, R. & **Streicker, D.G.** (2021) Characterizing and evaluating the zoonotic potential of novel viruses discovered in vampire bats. **Viruses** https://doi.org/10.3390/v13020252

13. ** Benavides, J.A., **Streicker, D.G.,** Gonzalez, M.S., Rojas-Paniagua. E., & Shiva, S. (2021) Knowledge and use of antibiotics among low-income small-scale farmers of Peru. **Preventive Veterinary Medicine** https://doi.org/10.1016/j.prevetmed.2021.105287

14. Gonçalves, F., Galetti, M., & **Streicker, D.G.** (2021) Management of vampire bats and rabies: a precaution for rewilding projects in the Neotropics. **Perspectives in Ecology and Conservation** DOI: 10.1016/j.pecon.2020.12.005

15. * Bergner, L.M., Becker, D.J., Tello, C., Carrera, J.E. & **Streicker, D.G** (2021). Detection of *Trypanosoma cruzi* in the saliva of diverse Neotropical bats. **Zoonoses and Public Health** https://doi.org/10.1111/zph.12808

16. * Bergner, L.M., Orton, R.J., Broos, A., Tello, C., Becker, D.J., Carrera, J.E., Patel, A.H., Biek, R. & **Streicker, D.G**. (2021) Diversification of mammalian deltaviruses by host shifting. **Proceedings of the National Academy of Sciences of the USA** https://doi.org/10.1073/pnas.2019907118

17. * Griffiths, M., Bergner, L.M., Broos, A., da Silva Filipe, A., Davison, A., Tello, C., Becker, D.J. & **Streicker, D.G.** (2020) Epidemiology and biology of a herpesvirus in rabies endemic vampire bat populations. **Nature Communications** 10.1038/s41467-020-19832-4

18. Worsley-Tonks, K., Escobar, L., Biek, R., Castaneda, M., Craft, M., **Streicker, D.G.,** White, L., & Fountain-Jones, N. (2020) Using host traits to predict reservoir host species of rabies virus. **PLoS Neglected Tropical Diseases** https://doi.org/10.1371/journal.pntd.0008940

19. * Mollentze, N., **Streicker, D.G.**, Murcia, P.R., Hampson, K., Biek, R. (2020) Virulence mismatches in index hosts shape the outcomes of cross-species transmission. **Proceedings of the National Academy of Sciences** https://doi.org/10.1073/pnas.2006778117

20. **Streicker, D.G.** and Gilbert, A.T. (2020) Perspective: Contextualizing bats as viral reservoirs. **Science**

https://doi.org/10.1126/science.abd4559

21. * Meza, D.K., Broos, A.B., Becker, D.J., Behdenna, A., Willett, B., Viana, M., **Streicker, D.G.** (2020) Predicting the presence and titer of rabies virus neutralizing antibodies from low-volume serum samples in low-containment facilities. **Transboundary and Emerging Diseases** https://doi.org/10.1111/tbed.13826

22. ** Benavides, J.A., Valderrama, W., Recuenco, S., Uieda, W., Suzán, G., Avila-Flores, R., Velasco-Villa, A., Almeida, M., Andrade, F.A., Molina, M., Vigilato, M., Pompei, J., Tizzani, P., Carrera, J., Ibanez, D., **Streicker, D.G.** (2020) Defining new pathways to manage the ongoing emergence of bat rabies in Latin America. **Viruses** https://doi.org/10.3390/v12091002

23. * Bergner, L.M., Orton, R.J., & **Streicker, D.G**. (2020) Complete *Alphacoronavirus* genome sequence from common vampire bats in Peru. **Microbiology Resource Announcements** https://doi.org/10.1128/MRA.00742-20

24. Olival, K., Cryan, P.M., Amman, B.R., Baric, R.S., Blehert, D.S., Brook, C., Calisher, C., Castle, K.T., Coleman, J.T.H., Daszak, P., Epstein, J.H., Field, H., Frick, W.F., Gilbert, A.T., Hayman, D.T.S., Ip, H.S., Karesh, W.B., Kreuder Johnson, C., Kading, R.C., Kingston, T., Lorch, J., Mendenhall, I.H., Peel, A.J., Phelps, K.L., Plowright, R.K., Reeder, D.M., Reichard, J.D., Sleeman, J.M., **Streicker, D.G.**, Towner, J.S., Wang, L-F. (2020) Possible risks of SARS-CoV-2 spillover from humans to free-ranging wildlife: a case study of bats **PLoS Pathogens** https://doi.org/10.1371/journal.ppat.1008758

25. * Becker, D.J., Broos, A., Bergner, L.M., Meza, D.K., Simmonds, N.B., Fenton, M.B., Altizer, S. & **Streicker D.G.** (2020) Temporal patterns of vampire bat rabies and host connectivity in Belize. **Transboundary and Emerging Diseases** https://doi.org/10.1111/tbed.13754

26. ** Mollentze, N. & **Streicker, D.G.** (2020) Viral zoonotic risk is homogenous among taxonomic orders of mammalian and avian reservoir hosts. **Proceedings of the National Academy of Sciences** https://doi.org/10.1073/pnas.1919176117

27. * Becker, D.J., Speer, K.A., Brown, A.M, Washburne, A.D., Fenton, M.B., Altizer, S., **Streicker, D.G**., Plowright, R.K., Chizhikov, V.E., Simmons, N.B., & Volokhov, D.V. (2020) Ecological and evolutionary drivers of hemoplasma infection and genotype sharing in a Neotropical bat community. **Molecular Ecology** https://doi.org/10.1111/mec.15422

28. ** Benavides, J. Velasco-Villa A., Godino, L.C., Satheshkumar, P.S., Nino, R., Rojas-Paniagua E., Shiva C., Falcon, N, & **Streicker D.G.** (2020) Abortive vampire bat rabies infections in Peruvian peridomestic livestock. **PLoS Neglected Tropical Diseases** https://doi.org/10.1371/journal.pntd.0008194

29. Fenton, M.B., **Streicker, D.G.**, Racey, P.A., Tuttle, M.D., Medellin, R.A, Daley, M.J., Recuenco, S. & Bakker, K.M. (2020) Matters arising: Knowledge gaps about rabies transmission from vampire bats to humans. **Nature Ecology and Evolution** 10.1038/s41559-020-1144-3

30. **Bakker, K.M., Rocke, T.E., Osorio, J.E., Tello, C., Carrera, C., Valderrama, W., Shiva, C., Falcon, N., & **Streicker, D.G.** (2019) Fluorescent biomarkers demonstrate prospects for self-spreading vaccines to control disease transmission in wild bats. **Nature Ecology & Evolution** 10.1038/s41559-019-1032-x

31. **Streicker, D.G.,** Fallas González, S.L., Luconi, G., González Barrientos, R., & Leon, B. (2019) Phylodynamics reveals extinction-recolonization dynamics underpin apparently endemic vampire bat rabies in Costa Rica. **Proceedings of the Royal Society B** 10.1098/rspb.2019.1527

32. * Bergner, L.M, Orton, R.J., Benavides, J.A., Becker, D.J., Tello, C., Biek, R., & **Streicker, D.G.** (2019) Viral diversity is shaped by host demography and environmental heterogeneity as revealed by ecological metagenomics in vampire bats. **Molecular Ecology** 10.1111/mec.15250

33. * Becker, D.J., Nachtmann, C., Argibay, D.N, Botto, G., Czirják, G.A., Escalera-Zamudio, M., Carrera, J.E., Tello, C., Winiarski, E., Greenwood, A.D., Rojas-Anaya, E., Loza-Rubio, E., Lavergne, A., de Thoisy, B., Plowright, R.K., Altizer, S. & **Streicker, D.G.** (2019) Leukocyte profiles reflect geographic range limits in a widespread Neotropical bat. **Integrative and Comparative Biology** 10.1093/icb/icz007

34. Grillet, M., Hernández, J., Llewellyn, M., Paniz-Mondolfi, A., Tami, A., Vincenti-Gonzalez, M., Marquez, M., Mogollon-Mendoza, A., Hernandez-Pereira, C., Plaza-Morr, J., Blohm, G., Grijalva, M., Costales, J., Ferguson, H., Schwabl, P., Hernandez-Castro, L., Lamberton, P., **Streicker, D.G.**, Haydon, D., Miles, M., Acosta-Serrano, A., Acquattela, H., Basañez, M., Benaim, G., Colmenares, L., Conn, J., Espinoza, R., Freilij, H., Graterol-Gil, Hotez, P., & Kato, H. (2019) Venezuela's humanitarian crisis, resurgence of vector-borne diseases and implications for spillover in the region: a call for action. **Lancet Infectious Diseases** 10.1016/S1473-3099(18)30757-6

35. * Bergner, L., Orton, R.J., da Silva Filipe, A., Shaw, A., Becker, D., Tello, C., Biek., R. & **Streicker. D.G.** (2018) Using non-invasive metagenomics to characterize viral communities from wildlife. **Molecular Ecology Resources** 10.1111/1755-0998.12946. PMID: 30240114

36. Babayan, S., Orton, R.J. & **Streicker D.G.** (2018) Predicting Reservoir Hosts and Arthropod Vectors from Evolutionary Signatures in RNA Virus Genomes. **Science** https://doi.org/10.1126/science.aap9072

37. * Becker, D.J., Bentz, A.B., Bergner, L.M., Orton, R.J., Altizer, S.A. & **Streicker, D.G.** (2018) Genetic diversity, infection prevalence and possible transmission routes of *Bartonella* spp. in vampire bats. **PLoS Neglected Tropical Diseases** 10.1371/journal.pntd.0006786. PMID: 30260954

38. ** Benavides, J., Shiva, C., Virhuez, M., Tello, C., Appelgren, A., Vendrell, J., Solassol, J., Godreuil, S., **Streicker, D.G.** (2018) Extended-spectrum beta-lactamases-producing *Escherichia coli* in common vampire bats *Desmodus rotundus* and livestock in Peru**. Zoonoses and Public Health** 10.1111/zph.12456.

39. Bohmann, K., Gopalakrishnan, S., Nielsen, L., Jones, G., **Streicker, D.G.,** Gilbert, M. (2018) Using DNA metabarcoding for simultaneous inference of common vampire bat diet and population structure. **Molecular Ecology Resources** 10.1111/1755-0998.12891

40. Altizer, S.A., Becker, D.J, Epstein, J.H., Forbes, K.M., Gillespie, T.R., Hall, R.J., Hawley, D., Hernandez, S.M., Martin, L.B., Plowright, R.K., Satterfield, D.A., & **Streicker D.G.** (2018) Food for contagion: Synthesis and future directions for studying host–parasite responses to resource shifts in anthropogenic environments. **Philosophical Transactions of the Royal Society B** 10.1098/rstb.2017.0102

41. Fisher, C., **Streicker, D.G.**, Schnell, M. (2018) The spread and evolution of rabies virus: conquering new frontiers **Nature Reviews Microbiology** 10.1038/nmicro.2018.11

42. Zepeda-Mendoza, M.L., Xiong, Z., Escalera-Zamudio, M., Runge, A.K., Thézé, J., **Streicker, D.G.,** Frank, H.K., Loza-Rubio, E., Liu, S., Ryder, O.A., Katzourakis, A., Pybus, O.G., Li, Y., Rojas-Anaya, E., Bohmann, K., Carmona-Baez, A., Liu, S., Greenwood, A.D., Frost Bertelsen, M., White, N., Bunce, M., Zhang, G. Sicheritz-Pontén, T. & Gilbert, M.T.P. (2018) Hologenomic adaptations underlying the evolution of sanguivory in the vampire bat. **Nature Ecology & Evolution** 10.1038/s41559-018-0476-8

43. * Becker, D., Czirják, G.A., Volokhov, D.V., Bentz, A.B, Carrera, J.E., Camus, M.S., Navara, K.J., Chizhikov, V.E., Fenton, M.B, Simmons, N.B., Gilbert, A.T., Recuenco, S.E., Altizer, S., **Streicker, D.G.** (2018) Livestock abundance predicts vampire bat demography, immune profiles, and bacterial infection risk. **Philosophical Transactions of the Royal Society B** 10.1098/rstb/2017.0089

44. ** Benavides, J., Rojas Paniagua, E., Hampson, K. & **Streicker, D.G.** (2017) Quantifying the burden of vampire bat rabies in Peruvian livestock. **PLoS Neglected Tropical Diseases** 10.1371/journal.pntd.0006105

45. Volokhov, D.V., Becker, D.J., Bergner, L.M., Camus, M.S., Orton, R.J., Chizhikov, V.E., Altizer, S. & **Streicker. D.G.** (2017) Novel hemotropic mycoplasmas are widespread and genetically diverse in vampire bats. **Epidemiology and Infection** 10.1017/S095026881700231X

46. * Becker, D.J., **Streicker, D.G.**, Altizer, S.A. (2017) Using host species traits to understand the consequences of resource provisioning for host-parasite interactions. **Journal of Animal Ecology** 10.1111/1365-2656.12765

47. * Becker, D.J., Chumchal, M.M., Bentz. A.B., Platt, S.G., Czirják, G.A., Rainwater, T.R., Altizer, S., **Streicker, D.G.** (2017) Predictors and immunological consequences of sublethal mercury exposure in vampire bats. **Royal Society Open Science** 10.1098/rsos.170073

48. Pepin, K., Davis, A., **Streicker, D.G.**, Fischer, J, VerCauteren, K. & Gilbert, A. (2017) Predicting spatial spread of rabies in wildlife populations using surveillance data reported by the public. **PLoS Neglected Tropical Diseases** 10.1371/journal.pntd.0005822
49. Velasco-Villa, A., Escobar, E., Sanchez, A., Shi, M., **Streicker. D.G.,** Gallardo-Romero, N., Vargas-Pino, F., Gutierrez-Cedillo, V., Damon, I. (2017) Successful strategies implemented towards the elimination of canine rabies in the Western Hemisphere. **Antiviral Research** 10.1016/j.antiviral.2017.03.023
50. Velasco-Villa, A., Mauldin, M. Shi, M., Escobar, E., Gallardo, N., Damon, I., Olson, V., **Streicker, D.G.,** Emerson, G. (2017) The history of rabies in the Western Hemisphere. **Antiviral Research** 10.1016/j.antiviral.2017.03.013
51. **Streicker, D.G.,** Winternitz, J., Satterfield, D., Condori-Condori, R.E., Broos, A., Tello, C., Recuenco, S., Velasco-Villa, A., Altizer, S., Valderrama, W. (2016) Host-pathogen evolutionary signatures reveal dynamics and future invasions of vampire bat rabies **Proceedings of the National Academy of Sciences of the USA** 10.1073/pnas.1606587113
52. Plowright, R., Peel, A., **Streicker, D.G.,** Gilbert, A., McCallum, H., Wood, J., Baker, M. & Restif, O. (2016) Transmission or within-host dynamics driving pulses of zoonotic viruses in reservoir-host populations **PLoS Neglected Tropical Diseases** 10.1371/journal.pntd.0004796
53. ** Benavides, J., Valderrama, W., & **Streicker, D.G.** Spatial expansions and travelling waves of rabies in vampire bats (2016) **Proceedings of the Royal Society B** 10.1098/rspb.2016.0328
54. **Streicker, D.G.** & Allgeier, J.E. From food web to disease ecology: foraging choices of vampire bats in diverse landscapes (2016) **Journal of Applied Ecology** 10.1111/1365-2664.12690
55. O'Shea, T., Cryan, P., Hayman, D., Plowright, R., **Streicker, D.G.** Multiple mortality events in bats: a global review (2016) **Mammal Review** 10.1111/mam.12064
56. Fenton, A., **Streicker, D.G.,** Petchy, O.L. & Pedersen, A.B., Are all hosts created equal? Partitioning host species contributions to parasite persistence in multi-host communities (2015) **American Naturalist** 10.1086/683173
57. * Becker, D., **Streicker, D.G.** & Altizer, S.A. (2015) Linking anthropogenic resources to wildlife-pathogen dynamics: a review and meta-analysis. **Ecology Letters** 10.1111/ele.12428
58. * Mollentze, N., Biek, R., & **Streicker D.G.** (2014) The role of viral evolution in rabies host shifts and emergence. **Current Opinion in Virology** 10.1016/j.coviro.2014.07.004
59. Stoner-Duncan, B., **Streicker, D.G.** & Tedeschi, C. (2014) Vampire bats and rabies: towards an ecological solution to a public health problem. **PLoS Neglected Tropical Diseases** 10.1371/journal.pntd.0002867
60. Gottdenker, N., **Streicker, D.G.,** Faust, C. & Carrol, R. (2014) Anthropogenic land use change and infectious diseases: a review of the evidence. **Ecohealth** 10.1007/s10393-014-0941-z
61. **Streicker, D.G.** (2013) From Persistence to Cross-Species Emergence of a Viral Zoonosis. **Science** 342 (6163) 10.1126/science.1247566 (**Science and SciLifeLab Prize Essay*)
62. Blackwood, J., **Streicker, D.G.,** Altizer, S. & Rohani, P. (2013) Resolving the roles of immunity, pathogenesis and immigration for rabies persistence in vampire bats. **Proceedings of the National Academy of Sciences of the USA** 10.1073/pnas.1308817110
63. **Streicker, D.G.**, Fenton, A. & Pedersen, A.B. (2013) Differential sources of host species heterogeneity influence the transmission and control of multihost parasites **Ecology Letters** 16 (8) 10.111/ele.12122
64. Condori, R.E. **Streicker, D.G**., Cabezas-Sanchez, C. & Velasco-Villa, A. (2013) Enzootic and epizootic rabies associated with vampire bats in Peru. **Emerging Infectious Diseases** 19 (9) 10.3201/eid1909.130083
65. Tello, C., **Streicker, D.G.,** Gomez, J., Velazco, P. (2013) New records of pigmentation disorders in molossid and phyllostomid (Chiroptera) bats from Peru. **Mammalia** 10.1515/mammalia-2013-0019
66. **Streicker, D.G.,** Franka, R., Jackson F.R. & Rupprecht, C.E. (2013) Anthropogenic roost switching and rabies virus dynamics in house roosting big brown bats. **Vector Borne and Zoonotic Diseases** 13 (7) 10.1089/vbz.2012.1113

67. Faria, N., Suchard, M., Rambaut, A., **Streicker, D.G.** & Lemey, P. (2013) Simultaneously reconstructing viral cross-species transmission history and identifying the underlying constraints. **Philosophical Transactions of the Royal Society B** 368 (1614) 10.1098/rstb.2012.0196

68. **Streicker, D.G.**, Altizer, S., Velasco-Villa & Rupprecht, C.E. (2012) Variable evolutionary routes to host establishment across repeated rabies virus host shifts among bats **Proceedings of the National Academy of Sciences of the USA** 109 (38) 10.1073/pnas.1203456109.

69. **Streicker, D.G.**, Recuenco, S., Valderrama, W., Gomez-Benavides, J., Vargas, I., Pacheco, V., Condori, R.E, Montgomery, J., Rupprecht, C.E., Rohani, P. & Altizer, S. (2012) Ecological and anthropogenic drivers of rabies exposure in vampire bats: implications for transmission and control. **Proceedings of the Royal Society B** 279, 3384-3392 10.1098/rspb.2012.0538

70. **Streicker, D.G.**, Lemey, P., Velasco-Villa, A. & Rupprecht, C.E. (2012) Rates of viral evolution are linked to host geography in bat rabies. **PLoS Pathogens** 8 *(5)* 10.1371/journal.ppat.1002720

71. Kuzmin, I., Shi, M., Orciari, L.A., Yager, P.A., Velasco-Villa, A., Kuzmina, N., **Streicker, D.G.**, Yu, C., Bergman, D.L. & Rupprecht, C.E. (2012) Molecular inferences suggest multiple host shifts of rabies viruses from bats to mesocarivores in Arizona during 2001-2009. **PLoS Pathogens** 8 *(6)*, 10.1371/journal.ppat.1002786

72. Daszak, P., Ball, S.J., **Streicker, D.G.**, Jones, C.G, & Snow, K.R. (2011) A new species of *Caryospora* Leger, 1904 (Apicomplexa: Eimeriidae) from the endangered Round Island boa *Casarea dussumieri* (Schlegel) (Serpentes: Bolyeridae) or Round Island, Mauritius: an endangered parasite? **Systematic Parasitology** 78: 117-122 10.1007/s11230-010-9280-9

73. Daszak, P., Ball, S.J., **Streicker, D.G.**, & Snow, K.R. (2011) A New Species of Eimeria (Apicomplexa: Eimeriidae) from the Western Hognose Snake, Heterodon nasicus (Serpentes: Xenodontidae), from Texas. **Journal of Parasitology** 97 *(3)*: 463-465 10.1645/GE-2698.1

74. **Streicker, D.G.**, Turmelle, A.S., Vonhoff, M.J., Kuzmin, I., McCracken, G.F. & Rupprecht, C.E. (2010) Host phylogeny constrains cross-species emergence and establishment of rabies virus in bats. **Science** 329, 676 10.1126/science.1188836 *(cover article)*.

75. Daszak, P., Ball, S.J., Jones, C.J., **Streicker, D.G.**, & Snow, K.R. (2009) Six new species of coccidia (Apicomplexa: Eimeriidae) from endangered *Phelsuma* spp. geckoes (Sauria: Gekkonidae) of the Black River Gorges National Park, Mauritius. **Folia Parasitologica** 56 *(4)*: 233-241.

76. Cui, J., Han, N., **Streicker, D.G.**, Li, G., Tang, X., Shi, Z., Hu, Z., Zhao, G, Fontanet, A., Guan, Y., Wang, L., Jones, G., Field, H., Daszak, P., & Zhang, S. (2007) Evolutionary relationships between bat coronaviruses and their hosts. **Emerging Infectious Diseases** 13 *(10)*: 1526-1532.

77. Franka, R., Constantine, D.G., Kuzmin, I., Velasco-Villa, A., Reeder, S., **Streicker, D.G.**, Orciari, L.A., Wong, A.J., Blanton, J.D. & Rupprecht, C.E. (2006) A new phylogenetic lineage of *Rabies virus* associated with western pipistrelle bats (*Pipistrelllus hesperus*). **Journal of General Virology** 87 *(8): 2309-2321.*

78. Reeves, W.K., **Streicker, D.G.**, Loftis, A.D. & Dasch, G.A (2006) Serologic survey of *Eptesicus fuscus* from Georgia, U.S.A. for *Rickettsia* and *Borrelia* and laboratory transmission of a *Rickettsia* by bat ticks. **Journal of Vector Ecology** 31(2):386-389.

PREPRINTS & MANUSCRIPTS IN REVIEW

1. ** Mollentze, N., Keen, D., Munkhyabar, U., Biek, R. & **Streicker, D.G.** Variation in the ACE2 receptor has limited utility for SARS-CoV-2 host prediction. ***bioRxiv*** https://doi.org/10.1101/2022.05.16.492068

2. Rocke, T., Streicker, D.G., and Leon, A. Management of vampire bats and rabies: past, present, and future. (Book chapter for: History of Rabies in the Americas, Edited by Rupprecht)

OTHER PUBLICATIONS

1. **Streicker, D.G.**, Bull, J.J., & Nuismer S.L. (2022) Letter: Self-spreading vaccines - base policy on evidence. **Science** 10.1126/science.abo1980

2. Bergner, L.M. & **Streicker, D.G.** (2021) Hepatitis D: how the virus made the jump from animals to humans. **The Conversation** https://theconversation.com/hepatitis-d-how-the-virus-made-the-jump-

from-animals-to-humans-152458

3. **Streicker, D.G.** & Biek, R. (2021) Evolution of Rabies Virus (*Book chapter* for Rabies: Scientific Basis of the Disease and Its Management, Edited by Fooks and Jackson)
4. Benavides, J.A. & **Streicker, D.G**. (2016) How to stop vampire bats wreaking havoc (no stakes or garlic required). **The Conversation** https://theconversation.com/how-to-stop-vampire-bats-wreaking-havoc-no-stakes-or-garlic-required-60603
5. **Streicker, D.G.** & Pedersen, A.B. (2012) On the origin of zoonoses. **Science** 10.1126/science.1230791 (*Invited review* of Spillover: Animal Infections and the Next Human Pandemic, by David Quamman)

INVITED PRESENTATIONS & SEMINARS

2022 University of Tuebingen, Institute of Virology, Germany
2021 University of Bielefeld, Department of Animal Behavior, Germany
2021 Thomas More University, Belgium
2021 XXXII Rabies in the Americas Conference, Brazil **keynote*
2021 Conferencia Virtual por el Dia Mundial Contra la Rabia 2021, Ministerio de Salud del Peru
2021 Ciclo de conferencias por el Día Mundial de Lucha Contra la Rabia 2021, Universidad Peruana Cayetano Heredia
2021 Webinar: Advances in Surveillance and Control of Vampire Bat Rabies, Sao Paolo, Brazil
2021 Scottish Bat Workers Conference, Bat Conservation Trust
2020 University of North Carolina-Charlotte, Department of Biological Sciences, North Carolina, USA
2020 Virtual Rabies in the Americas Conference **keynote*
2020 World Rabies Day Virtual Health Conference, Organismo Internacional Regional de Sanidad Agropecuaria.
2020 Head of College Scholar's List Event, Glasgow, UK
2020 Glasgow Zoological Society, Glasgow, UK
2019 Ecological Society of America, *Organized Session: Ecological Levers for Human Health*. Louisville, Kentucky, USA
2019 Doñana Biological Station, Seville, Spain
2019 Scottish Tropical Ecology and Biology Meeting, Glasgow, UK
2018 TEDMED, Palm Springs, California, USA
2018 National Autonomous University of Mexico (UNAM), Faculty of Veterinary Sciences, Mexico City, Mexico
2018 National Service of Animal Health of Costa Rica, San Jose, Costa Rica
2018 67th Annual Wildlife Disease Association Conference, St. Augustine, Florida, USA
2018 Gaps and Opportunities for Research on Rabies, Zoonosis and Emerging Diseases in Peru, Centro de Investigaciones Technologicas, Biomedicas y Medioambientales (CITBM), Lima, Peru
2017 Institute of Research for Development (IRD)/Centre for Functional Ecology and Evolution (CEFE), Montpellier, France
2017 22nd Glasgow Virology Workshop, Glasgow, UK
2016 Pathogen Host Shifts Workshop, University of Cambridge, UK
2016 7th Joint Beit Memorial and Wellcome Beit Prize Fellows Meeting, London, UK
2016 Merial Animal Health, Atlanta, USA
2016 University of Wageningen, Netherlands
2015 British Ecological Society, Edinburgh, UK
2015 National Geographic Explorers Symposium, Washington, DC
2015 National Institute of Health of Peru, Lima, Peru
2015 20th Glasgow Virology Workshop, Glasgow, UK
2014 5th Joint Beit Memorial and Wellcome Beit Prize Fellows Meeting, London, UK
2014 VIII International Conference of the National Institute of Health of Peru, Lima, Peru
2014 Boyd Orr Symposium, Viral Genotype to Phenotype, Glasgow, UK
2014 University of Edinburgh, Institute of Evolutionary Biology, Edinburgh, UK
2014 Imperial College London, Department of Infectious Disease Epidemiology, London, UK
2014 Cambridge University, Department of Veterinary Medicine, Cambridge, UK
2014 Emory University, Population Biology, Ecology and Evolution, Atlanta, GA
**graduate student invited speaker*

2014 University of Georgia, Odum School of Ecology, Athens, GA
2014 Cambridge University, Department of Genetics, Cambridge, UK
2013 University of Upsalla, Sweden
2013 SciLifeLab, Stockholm, Sweden
2013 Ecology and Evolution of Infectious Diseases Conference, State College, PA
2013 ETH Zurich, Institute of Integrative Biology. Zurich, Switzerland.
2012 University of Glasgow, Institute of Biodiversity, Animal Health and Comparative Medicine. Glasgow, UK.
2012 University of Georgia College of Veterinary Medicine. Athens, GA
2012 Centers for Disease Control and Prevention, Division of High Consequence Pathogens and Pathology Science Seminar. Atlanta, GA
2011 University of Michigan Early Career Scientist Symposium. Ann Arbor, MI
2011 Infectious Diseases and One Health: Vaccines and Therapeutics. Atlanta, GA
2009 39th North American Society for Bat Research Conference. Special symposium on Health and Disease in Bats. Portland, OR
2009 Ministry of Health of Peru, Office of Epidemiology. Lima, Peru
2008 University of Georgia, Center for Tropical and Emerging Global Diseases, Athens, GA
2007 Amherst College, Department of Biology. Amherst, MA
2007 37th North American Society for Bat Research/14th International Bat Research Conference. Special Symposium on Emerging Diseases in Bats. Merida, Mexico
2007 Ministry of Health of Peru, Office of Epidemiology. Lima, Peru
2006 Wuhan Institute of Virology. Wuhan, China

CONTRIBUTED CONFERENCE PRESENTATIONS

2015 13th Ecology and Evolution of Infectious Diseases Conference, Athens, GA. *Poster*.
2015 4th International Berlin Bat Meeting, Berlin, Germany.
2014 European Wildlife Disease Association Conference, Edinburgh, UK.
2014 Jacques Monod Conference: From Emerging to Pandemic Viruses: Interplay between Host Ecology and Viral Evolution, Roscoff, France.
2012 Ecological Society of America, Portland, OR.
2011 Odum School of Ecology Graduate Student Symposium. Athens, GA.
2010 2nd Congress of the Peruvian Society of Mammalogy, National University of San Agustín, Arequipa, Peru (*in Spanish).*
2010 Ecology and Evolution of Infectious Disease Conference, Cornell University. Ithaca, NY. *Poster.*
2008 International Conference on Rabies in the Americas, Centers for Disease Control and Prevention. Atlanta, GA. *Poster*.
2008 Ecology and Evolution of Infectious Disease Conference, Colorado State University. Ft. Collins, CO. *Poster*.
2008 University of Georgia Graduate Student Symposium. Athens, GA.
2007 Ecology and Evolution of Infectious Disease Conference, Cornell University. Ithaca, NY.
2007 University of Georgia Graduate Student Symposium. Athens, GA.
2006 University of Georgia Ecology of Infectious Diseases Lecture Series, Athens, GA. *Poster.*
2003 Mountain Lake Biological Station REU Symposium, Pembroke, VA.

WORKING GROUPS, WORKSHOPS & PANEL MEMBERSHIPS

2021 – pres. **Workshop: Coordinating the development of self-disseminating vaccines for spillover Prevention** (Washington, USA). The goals of this US National Science Foundation-funded workshop (Co-PIs: Scott Nuismer and Daniel Streicker) are promote communication across the diverse disciplines required to bring a transmissible vaccine to fruition and facilitate collaboration and information sharing among teams working on transmissible vaccines for different host-pathogen systems. ***Role: Co-organizer***.

2021 – pres. **International Lab ELDORADO** (France/Mexico). This lab is a joint initiative between the Centre IRD de Montpellier (France) and the National Autonomous University of Mexico to develop and test innovative strategies to prevent zoonotic disease emergence based on ecosystem management.
Role: External Scientific Council. Organizers: Benjamin Roche and Gerardo Suzan

2020 **United States Department of Agriculture Blue Ribbon Panel on Vampire Bat Surveillance/Rabies Management Strategies** (United States). This expert panel convened by the US National Rabies Management Program (NRMP) and National Wildlife Research Center (NWRC) summarized the state of knowledge around vampire bat rabies to guide the development of a national policy on managing the arrival of vampire bats to the United States of America.
Role: Invited Panellist. Organizer: Richard Chipman.

2020 **United States Geological Survey National Rapid Risk Assessment for Risk of SARS-CoV-2 to North American Bats**. This risk assessment used expert surveys and focus groups to evaluate the risk posed by SARS-CoV-2 to North American bats to shape national policies on bat research and management.
Role: Invited Panellist. Organizer: Paul Cryan.

2017 **Workshop: United States Department of Agriculture - Spillover at the Wildlife-Livestock Interface** (Colorado, USA).
Role: Invited Panellist; Organizer: Kezia Manlove.

2013 **Workshop: National Institutes of Health – Research and Policy for Infectious Disease Dynamics (RAPIDD) - Cross-Species Prediction** (Colorado, USA).
Role: Invited Panellist; Organizer: Raina Plowright.

2012 – 2015 **Working Group: National Institutes of Health – Research and Policy for Infectious Disease Dynamics (RAPIDD) - Small Mammal Reservoirs of Infectious Disease** (Colorado, USA & Cambridge, UK). This working group met twice per year to carry out quantitative research on bat and rodent reservoirs of emerging viruses.
Role: Invited Participant; Organizers: Colleen Webb and James Wood.

2010 **Workshop: National Institutes of Health – Research and Policy for Infectious Disease Dynamics (RAPIDD) - Cross-Species Transmission** (Maryland, USA).
Role: Invited Participant; Organizers: Roman Biek and Paul Cross

SUPERVISION & EXAMINATION

Postdocs

1. Max Farrell, University of Glasgow, 2022-*pres.*
2. Rita Ribeiro, University of Glasgow, 2021-*pres*.
3. Jocelyn Perez Lazo, University of Glasgow, 2021-*pres*.
4. Laura Bergner, University of Glasgow, 2018-*pres*.
5. Nardus Mollentze, University of Glasgow, 2018-*pres*.
6. Kevin Bakker, University of Glasgow, 2017-2018. *Current position*: Principal Scientist, Merck, USA.
7. Julio Benavides, University of Glasgow, 2014-2018. *Current position*: Research Director, MIVEGEC, IRD, France.
8. Richard Orton, University of Glasgow, 2017-2018. *Current position*: Bioinformatician, MRC-University of Glasgow Centre for Virus Research.

PhD Students

1. Haris Malik, University of Glasgow, 2021-*pres*. *Pre-empting emerging viruses: infection dynamics of a transmissible vaccine candidate against vampire bat-transmitted rabies*
2. Matt Arnold, University of Glasgow, 2022-*pres*. *Predicting reservoirs of infection at the level of the global virosphere and single population using machine learning methods and virus/host sequence data.* Second supervisor.
3. Julius Nziza, University of Glasgow, 2021-*pres*. *Pathogen genomic analysis at the primate-human-domestic animal interface in Rwanda: prevalence, diversity and transmission dynamics.* Second supervisor.

4. Hollie French, University of Glasgow, 2021-*pres*. *Integrating multi-pathogen genomic and serological surveillance for geographically-targeted disease control*
5. Zulma Rojas, Andres Bello University (Chile), 2020-*pres*. *Environmental and anthropogenic drivers of bat-borne pathogens in Latin America*. Co-advised with Julio Benavides
6. Megan Griffiths, University of Glasgow, 2019-*pres*. *Ecology and evolution of bat betaherpesviruses*
7. Diana Villa Meza, University of Glasgow, 2018-*2022*. *Dynamics of viral co-infections in wild vampire bats*. Co-advised with Mafalda Viana and Pablo Murcia.
8. James Shepard, University of Glasgow, 2017-*pres*. *Transmission networks of novel viral causes of human febrile illness in Uganda*. Co-advised with Emma Thompson
9. Laura Bergner, University of Glasgow, 2014-2018. *Viral communities in vampire bats: geographic variation and ecological drivers*. Co-advised with Roman Biek and Richard Orton
10. Nardus Mollentze, University of Glasgow, 2013-2017. *Epidemiology and evolution of Rabies virus host shifts*. Co-advised with Roman Biek, Katie Hampson & Pablo Murcia
11. Daniel Becker, University of Georgia, 2011-2017. *Resource provisioning and wildlife disease: theory, meta-analysis and field studies*. Co-advised with Sonia Altizer. *Current position*: Assistant Professor, University of Oklahoma

Graduate Committee Member

1. Janine Seetahal, University of the West Indies, 2018-2021. PhD. Supervisor: Christine Carrington
2. German Botto, Montana State University, 2017-2021 PhD. Supervisor: Raina Plowright
3. Cecilia Montoya, Universidad Nacional Autónoma de México, 2020-2022. MSc. Supervisor: Rafael Ojeda Flores

PhD Examinations

1. Diana Prada, Murdoch University, 2020. *Viral ecology of Western Australian microbat communities.* Supervisor: Mark O'Dea
2. Francisco Miroslav Ulloa-Stanojlovic, University of Sao Paolo, 2019. *Descriptive evaluation of human and animal rabies and development of a predictive model of bovine rabies in Peru*. Supervisor: Ricardo Dias
3. Alfred Filol Salom, University of Glasgow, 2019. *The discovery of phage-inducible chromosomal islands (PICIs) in Gram-negative bacteria*. Supervisor: Jose Penades
4. Liam Brierley, University of Edinburgh, 2016. *The ecology of emerging diseases: virulence and transmissibility of human RNA viruses*. Supervisors: Amy Pedersen & Mark Woolhouse
5. Amy Burroughs, University of Queensland, 2015. *Risk factors for virus excretion from a bat colony: an observational study of grey-headed flying foxes (Pteropus poliocephalus) at Eastern Park, Geelong*. Supervisor: Lin-Fa Wang
6. Kirstyn Brunker, University of Glasgow, 2016. *The landscape epidemiology of canine rabies virus in Tanzania*. Supervisors: Katie Hampson & Roman Biek

Masters Students

1. Hana Mayall, University of Glasgow, 2021. Quantitative Methods in Conservation, Ecology and Epidemiology (MSc). *Forecasting future invasions of vampire bat rabies*
2. Deborah Keen, University of Glasgow, 2020. Epidemiology of Infectious Diseases & Antimicrobial Resistance (MSc). *SARS-CoV-2: Elucidating potential intermediate hosts, species susceptible to reverse zoonotic transmission, and feasible model organisms using supervised machine learning*
3. Jingyi Chen, University of Glasgow, 2020. Biomedical Sciences (MSc). *Receptor binding of a novel bat alphacoronavirus*
4. Grace Walsh, University of Glasgow, 2020. Medical Genetics (MSc). *Evolutionary history of endogenous betaretroviruses in bats*
5. Katie Allan, University of Glasgow, 2018-2019. Ecology and Environmental Biology (MRes). *The role of hematophagous arthropods in the transmission of Bartonella spp. in the common vampire bats, Desmodus rotundus.*
6. Carly Trille, University of Glasgow, 2017-2018. Biomedical Sciences (MRes). *Community epidemiology of betaherpesviruses in South American bats*
7. Jordan Bone, University of Glasgow, 2017-2018. Quantitative Methods in Conservation, Ecology and Epidemiology (MSc). *Environmental factors and their impact on rabies epidemic spread across South America*
8. James Guilder, University of Glasgow, 2016-2017. Quantitative Methods in Conservation, Ecology

and Epidemiology (MSc). *Vampire bat foraging effort: potential implications for social networks and rabies dynamics*

9. Danielle Dekoski, University of Glasgow, 2016-2017. Quantitative Methods in Conservation, Ecology and Epidemiology (MSc). *Effects of population demography and genetic structure on rabies exposure in common vampire bats (Desmodus rotundus)*
10. Megan Wallace, University of Glasgow, 2015-2016. Quantitative Methods in Conservation, Ecology and Epidemiology (MSc). *Ecological and evolutionary drivers of rabies transmission between bat species.*
11. Victoria Estacio, University of Glasgow, 2015-2016. Quantitative Methods in Conservation, Ecology and Epidemiology (MSc). *Ecological niche modelling of vampire bats and rabies outbreaks for rabies control*

TEACHING

2020 – 2022	Wellcome Trust Integrative Infection Biology (PhD). University of Glasgow
2018 – 2022	BIOL 5314 *Emerging Viruses* (Masters). University of Glasgow
2017 – 2022	MRC-University of Glasgow Centre for Virus Research PhD Training Course
2017 – 2022	BIOL 4960 *Animal Biology* (Undergraduate). University of Glasgow
2017	Wellcome Advanced Course: *Mathematical Models for Infectious Disease Dynamics*, Hinxton, UK
2017	University of Glasgow, *Applied Ecology*
2014	3rd ANTIGONE OneHealth Course, Bonn, Germany
2009 – 2013	ECOL 6150 *Population Biology of Infectious Diseases*, University of Georgia. Athens, GA
2009 – 2013	ECOL 4000: *Evolutionary Ecology*, University of Georgia. Athens, GA
2008 & 2013	BIOL 461/861: *Ecology of Wildlife Diseases*, Mountain Lake Biological Station. Pembroke, VA
2004 – 2006	Organized and led bat speciation workshops for public health laboratorians. Atlanta, GA
2005	Instructor, National Laboratory Training Network: Rabies Diagnostics. Atlanta, GA

PROFESSIONAL SERVICE

Conference organization: 16th Ecology and Evolution of Infectious Diseases Conference (Lead Organizer, University of Glasgow), 4th International Berlin Bat Meeting (Chaired special session on Bat Movement and Infectious Diseases, Berlin). Ecology and Control of Infectious Diseases in Vampire Bats (Lead Organizer, Nov 2016, Cayetano Heredia University),

Journal Reviewer: *American Naturalist, Bioinformatics, BMC Research Notes, Ecohealth, Ecology and Evolution, Ecology Letters, Ecological Applications, eLife, Epidemics, Evolutionary Applications, Genome Research, Heredity, Infection Genetics and Evolution, Journal of Animal Ecology, Journal of Applied Ecology, Journal of Evolutionary Biology, Journal of the Royal Society Interface, Journal of Mammalogy, Lancet Infectious Diseases, Molecular Ecology, Nature Communications, Nature Ecology and Evolution, Nature Microbiology, Philosophical Transactions of the Royal Society B, Molecular Phylogenetics and Evolution, Pathogens and Global Health, PLoS Biology, PLoS Computational Biology, PLoS Neglected Tropical Diseases, PLoS One, PNAS, Proceedings of the Royal Society B, Science, Scientific Data, Virology, Virus Evolution, Virus Research, Zoonoses and Public Health*

Review Editor: *EcoHealth, PLoS Neglected Tropical Diseases*

Grant Reviewer: *DEFRA, Leverhulme Trust, National Geographic, National Science Center of Poland, Royal Society, Singapore National Research Foundation, U.S. National Science Foundation, Wellcome Trust, Wellcome Trust/DBT India Alliance*

REFERENCES

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