Tamika J. Lunn

Assistant Professor
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Education

2017–2021	**Ph.D.**, School of Environment and Science, Griffith University, Australia *Thesis:* Flying-fox ecology and transmission dynamics of Hendra virus *Advisors:* Prof. Hamish McCallum, Dr. Alison Peel, Assoc. Prof. Raina Plowright Submitted for review 22nd January 2021 | Conferred 25th June 2021
2015	**BSc. Hons with First Class Honors**, School of Biological Sciences, University of Tasmania, Australia *Thesis:* Causal modelling of platypus stream use
2012–2014	**BSc.**, School of Biological Sciences, University of Tasmania, Australia Bachelor of Science; double major in Zoology and Environmental Science, minor in Microbiology

Professional Appointments

2024–	**Assistant Professor**, Odum School of Ecology, University of Georgia, USA *Allocation of Effort*: 60% Research (0.449 EFT), 33% Teaching (0.248 EFT), 7% Service (0.053 EFT) *Tenure Status*: Tenure-track *Graduate Faculty Status*: Current
2021–2023	**Postdoctoral Research Fellow**, Department of Biological Sciences, University of Arkansas, USA *Project:* Empirical and mathematical modelling of bat-ebolavirus ecology in East Africa *Advisor:* Dr. Kristian Forbes (Fayetteville Disease Ecology Laboratory)
2021–2023	**Casual Research Fellow**, Centre for Planetary Health and Food Security, Griffith University, Australia *Project:* Empirical modelling of Hendra virus in Australian flying-foxes to infer transmission dynamics and spillover risk *Advisor:* Dr. Alison Peel, in collaboration with the BatOneHealth research team
2019	**Visiting Researcher/Endeavour Fellow**, Department of Veterinary Medicine, University of Cambridge, UK *Host:* Dr. Olivier Restif
2016–2017	**Research Associate**, School of Biological Sciences, University of Tasmania, Australia *Project:* Empirical modelling of fire on wet sclerophyll forest dynamics, and population modelling of the short-beaked echidna (*Tachyglossus aculeatus*) *Advisor:* Prof. Barry Brook
2016	**Science Graduate Intern**, Australian Wildlife Conservancy, Australia *Project:* Endangered fauna monitoring programs at remote wildlife sanctuaries (New South Wales, South Australia and the Northern Territory) *Advisor:* Felicity L'Hotellier

Awards and Honors

2022	**Shortlisted for the 2022 Elton Prize**, British Ecological Society. [Best research paper in Journal of Animal Ecology written by an early career author]
2017–2021	**Research Training Program Scholarship**, Griffith University. [AUD$81,246]
2021	**Publication Assistance Scholarship**, Griffith Graduate Research School. [AUD$5,385]
2019	**Endeavour Postgraduate Leadership Award**, Endeavour Leadership Program. [*AUD*$69,500]
2017	**Dean's Summer Research Scholarship**, University of Tasmania. [AUD$2,000]
2017	**Best Student Presentation**, Environmental Futures Research Institute 2017 Student Symposium. [AUD$400]
2015	**Governor's Environment Scholarship**, University of Tasmania. [AUD$7,500]
2015	**Dean's Honor Roll for the Faculty of Science, Engineering and Technology**, University of Tasmania. [Graduation with First Class Honors]
2014	**Ralston Trust Prize**, University of Tasmania. [Best academic performance in third-year zoology]
2013	**Peter Scott Prize**, University of Tasmania. [Best academic performance in second-year environmental science/geography]
2012–2014	**Premier of Tasmania West North-West Bursary**, University of Tasmania. [AUD$12,000]
2012–2014	**Dean's Roll of Excellence for Science, Engineering and Technology** [GPA above 6.25]
2012–2014	**Certificate of Excellence, Biological Science Discipline**, University of Tasmania. [Outstanding achievement in Biological Science units]

Student Mentorship

Theses directed

2024–	**Nuzha Baksh** | Ph.D. Ecology, University of Georgia Topic: Viral communities and foraging in *Rousettus aegyptiacus* bats in Kenya
2022–2023	**Reilly Jackson** | Ph.D. Biology, University of Arkansas "Human-bat interactions in a disease emergence hotspot: implications for human health and bat conservation"
2019	**Remy Brooks** | B.Sc. Hons (First Class) Environmental Science, Griffith University "Habitat characteristics within Australian flying fox roosts"
2016–2017	**Melissa Gerwin** | B.Sc. Hons (First Class) Biological Sciences, University of Tasmania "Impact of disturbance on the structure and composition of wet-eucalypt forests"

Thesis committees

2024–	**Charlotte Hovland** | Ph.D. Odum School of Ecology UGA (advisor: Sonia Altizer)
2024–	**Jillian Goodrich** | Ph.D. Institute of Bioinformatics UGA (advisor: Olivia Ginn)
2022–	**Isabella Deanglis** | Ph.D. Biological Sciences, University of Arkansas (advisor: Kristian Forbes)

Undergraduate mentorship

2024–	**Henry Traynor** | 4+1 degree program, Odum School of Ecology UGA Topic: Mathematical modelling of virus dynamics in anthropogenic bat roosts, Kenya

Student fellowships, scholarships & prizes

2024 **Presidential Graduate Fellow Award**, University of Georgia. Student: Nuzha Baksh [US$150,100]

Teaching

Courses Taught

ECOL3530 Conservation Biology (3 credit hours, 100% effort, except Spring 2024 50%)
Spring: 2024
Fall: 2024
Typical enrolment: 35-75

Other Teaching

2024– Guest lecturer, University of Georgia, USA
- ECOL1000 Ecological Basis of Environmental Issues (Fall 2024)
- FYOS 1001 First Year Odyssey Seminar (Fall 2024)

2023– Guest lecturer, University of Georgia, USA
- FYOS 1001 First Year Odyssey Seminar (Fall 2023)

2022 Guest lecturer, University of Arkansas, USA
- BIOL 3863 General Ecology (Spring 2022)

2018–2019 Co-instructor of practical classes, Griffith University, Australia
Taught undergraduate-level statistics using R statistical software:
- 3241ENV Quantitative Ecology, 10 credit points, 22 students enrolled (2018)
  - *Ranked in the top quartile across all criteria in Student Evaluations of Teaching. Nominated for a teaching award by two students*
- 3241ENV Quantitative Ecology, 10 credit points, 32 students enrolled (2019)
  - *Ranked in the top quartile across all criteria in Student Evaluations of Teaching. Nominated for a teaching award by two students*

2015–2017 Field trip leader, University of Tasmania, Australia
Led teaching activities introducing students to field ecology and data collection:
- KPZ211 Population and Community Ecology, 12.5 credit points, ~120 students enrolled

2015 Teaching assistant (practical classes), University of Tasmania, Australia
Taught undergraduate-level courses for Plant Science and Zoology majors:
- KPZ164 Cell Biology, Genetics and Evolution, 12.5 credit points, ~120 students enrolled
- KZA161 Biology of Animals, 12.5 credit points, ~120 students enrolled

2013–2014 Tutor (Peer Assisted Study Session Leader), University of Tasmania, Australia
Designed and facilitated group learning activities for academic enhancement sessions, for students taking historically difficult undergraduate-level courses:
- KZA161 Biology of Animals, 4-22 student participants per week
  - *Achieved an average rank of 4.4/5 across criteria in Student Evaluations of Teaching*
- KPZ163 Ecology, 6-23 student participants per week
  - *Achieved an average rank of 4.3/5 across criteria in Student Evaluations of Teaching*

Recognition for Excellence in Teaching

2024–2025 **Teaching Academy Early Career Fellow** (one of 25 faculty selected into a 1-year program for excellence in instruction)

Research Grants

Awarded research funding

2024 **National Institutes for Health**, Research Project Grant Program (R01). PI: K. Forbes, Subcontract Co-PIs: T.J. Lunn, D.G. Streicker, D.J. Becker, V. Mafalda. [Total awarded USD$2.5M, amount to Lunn: USD$500k]

2024 **UGA Center for the Ecology of Infectious Diseases Seed Grant**, University of Georgia. MPIs: T.J. Lunn, O. Ginn. [Total awarded USD$25k]

2022 **Research and Equipment Grant**, Arkansas Biosciences Institute. [USD$50,000] PI: K. Forbes (named principal investigator required to be faculty)

2019 **Holsworth Wildlife Research Endowment**, Ecological Society of Australia. [AUD$6,375]

2019 **WDA-A Research award**, Wildlife Disease Association Australasia. [AUD$2,000]

2019 **EFRI Conference Support Scheme**, Griffith University. [AUD$500]

2018 **Paddy Pallin Science Grant**, Royal Zoological Society. [AUD$7,000]

2018 **Science Research Grant**, "Grants in Need" private organization. [AUD$3,500]

Submitted research funding (not awarded)

2024 **Searle Scholars Program**. PI: T.J. Lunn. [Requested USD$300k]

2024 **National Institutes for Health**, Centers for Research in Emerging Infectious Diseases (U01). MPI's: J. Bahl, T.J. Lunn, G. Kayali. [Requested USD$8M]

2024 **National Institutes for Health**, Bat Immunology Network Research Projects (R01). PI: A. Schmidt, Subcontract Co-PIs: T.J. Lunn, K. Forbes, T. Sironen. [Requested USD$2.3M, amount to Lunn: USD$260k]

2023 **Centers for Disease Control and Prevention**, Centers for Outbreak Analytics and Disease Modeling. PI: J. Drake, Co-Is: P. Rohani, G. Chowell-Puente, S. Bansal, A. King, P. Qiu, H. Wearing, E. Laber, B. Han, A. Winter, S. Fox, A. Handel, J. Bahl, Y. Yang, E. Lipp, M. Gill, H. Li, A. Park, T. Glenn, G. Nowak, M. Cacciatore, T. Lunn, O. Ginn. [Requested USD:$15M]

2023 **UGA Presidential Interdisciplinary Seed Grant**, University of Georgia. MPIs: O. Ginn, T.J. Lunn. [Requested USD$140k]

2023 **UGA Presidential Interdisciplinary Seed Grant**, University of Georgia. PI: C.B. van Rees, Co-Is: M. Hunter, M.R. Auer, N. Nibbelink, T.J. Lunn, J. Nelson, A. Harper, J. Wares, L. German, E. King, C.B. Woodson, S. Wenger, D. Mishra, R. Holdo, S. Quinn, J Porter, S. Pippin. [Requested USD$150k]

Peer-reviewed Publications

(=graduate student; **=undergraduate student; +=postdoc)*

23. **Lunn, T.J.**, R.T. Jackson*, P.W. Webala, J. Ogola, K.M. Forbes (2024). Modern building structures are a landscape-level driver of bat–human exposure risk in Kenya. *Frontiers in Ecology and the Environment*, e2795. DOI: 10.1002/fee.2795
22. Roffler, A.A., D.P. Maurer, **T.J. Lunn**, T. Sironen, K.M. Forbes, A.G Schmidt (2024) Bat humoral immunity and its role in viral pathogenesis, transmission, and zoonosis. *Frontiers in Immunology,* 15:1269760. DOI: 10.3389/fimmu.2024.1269760
21. Uusitalo, R., R.T . Jackson*, T.J. Lunn, E.M. Korhonen, J. Ogola, P. Webala, T. Sironen, K.M. Forbes (2024). Current and future environmental suitability for bats hosting potential zoonotic pathogens in rural Kenya. *Ecography,* 14:e11572. DOI: 10.1002/ece3.11572
20. Jackson, R.T.*, **T.J. Lunn**, I. DeAnglis*, J. Ogola, P.W. Webala, K.M. Forbes (2024). Frequent and intense human-bat interactions occur in buildings of rural Kenya. *PLOS Neglected Tropical Diseases, 18(2):e0011988* . DOI: 10.1371/journal.pntd.0011988

19. Sánchez, C.A., K.L. Phelps, H.K. Frank, M. Geldenhuys, M.E. Griffiths, D.N. Jones, G. Kettenburg, **T.J. Lunn**, K.R. Moreno, M. Mortlock, A. Vicente-Santos, L.R. Víquez, R.C. Kading, W. Markotter, D.M. Reeder, K.J. Olival (2024). Advances in understanding bat health and infection dynamics. *Proceedings of the Royal Society B: Biological Sciences,* 291(2018):20232823. DOI: 10.1098/rspb.2023.2823
18. **Lunn, T.J.**, R.T. Jackson*, P.W. Webala, J. Ogola, K.M. Forbes (2024). Kenyan free-tailed bats demonstrate seasonal birth pulse asynchrony with implications for virus maintenance. *EcoHealth.* DOI: 10.1007/s10393-024-01674-x
17. Jackson*, R.T, P.W. Webala, J.G. Ogola, **T.J. Lunn**, K.M. Forbes (2023). Roost selection by synanthropic bats in rural Kenya: implications for human-wildlife conflict and zoonotic pathogen spillover. *Royal Society Open Science*, 10: 230578. DOI: 10.1098/rsos.230578.
16. Ruiz-Aravena, M., C. McKee, A. Gamble, **T.J. Lunn**, A. Morris, C.E. Snedden, C.K. Yinda, J.R. Port, D.W Buchholz, Y.Y. Yeo, C. Faust, E. Jax, L. Dee, D. Jones, M. Kessler, C. Falvo, D. Crowley, N. Bharti, C.E. Brook, H.C. Aguilar, A.J. Peel, O. Restif, T. Schountz, C.R. Parrish, E.S. Gurley, J.O. Lloyd-Smith, P. Hudson, V.J. Munster, R.K. Plowright (2022). Ecology, evolution, and spillover of coronaviruses from bats. *Nature Reviews Microbiology*, 20:299-314. DOI: 10.1038/s41579-021-00652-2.
15. Peel, A.J., K.C. Yinda, E.J. Annand, A.S. Dale, P. Eby, J. Eden, D.N. Jones, M.K. Kessler, **T.J. Lunn**, T. Pearson, J.E. Schulz, I.L. Smith, V.J. Munster, R.K. Plowright, Bat One Health Group (2022). Novel Hendra virus variant circulating in black flying foxes and grey-headed flying foxes, Australia. *Emerging Infectious Diseases*, 28(5):1043-1047. DOI: 10.3201/eid2805.212338.
14. **Lunn, T.J.**, J.C. Buettel, S.C. Nicol, B.W. Brook (2022). Population modelling of the Tasmanian Echidna (*Tachyglossus aculeatus*). *Australian Journal of Zoology*, 69(3): 80–91. DOI: 10.1071/ZO21037.
13. Hansen, D., B.E. Hunt, C.A. Falvo, M. Ruiz-Aravena, M.K. Kessler, J. Hall, P. Thompson, K. Rose, D.N. Jones, **T.J. Lunn**, A.S. Dale, A.J. Peel, R.K. Plowright (2022). Morphological and quantitative analysis of leukocytes in free-living Australian black flying foxes (*Pteropus alecto*). *PLoS ONE*, 17(5): e0268549. DOI: 10.1371/journal.pone.0268549.
12. **Lunn, T.J.**, A.J. Peel, H. McCallum, P. Eby, M.K. Kessler, R.K. Plowright, O. Restif (2021). Spatial dynamics of pathogen transmission in communally roosting species: impacts of changing habitats on bat-virus dynamics. *Journal of Animal Ecology*, 90:2609–2622. DOI: 10.1111/1365-2656.13566. [**Shortlisted for the 2022 Elton Award**].
11. **Lunn, T.J.**, A.J. Peel, P. Eby, R. Brooks*, R.K. Plowright, M.K. Kessler, H. McCallum (2021). Counterintuitive scaling between population abundance and local density: implications for modelling transmission of infectious diseases in bat populations. *Journal of Animal Ecology*, 91:916-932. DOI: 10.1111/1365-2656.13634.
10. **Lunn, T.J.**, P. Eby, R. Brooks*, H. McCallum, R.K. Plowright, M.K. Kessler, A.J Peel (2021). Conventional wisdom on roosting behaviour of Australian flying foxes – a critical review, and evaluation using new data. *Ecology and Evolution*, 11:13532–13558. DOI: 10.1002/ece3.8079.
9. Carver, S., **T. Lunn** (2020). When are pathogen dynamics likely to reflect host population genetic structure? *Molecular Ecology*, 29(5): 859-861. DOI: 10.1111/mec.15379.
8. **Lunn, T.J.**, O. Restif, A.J. Peel, V.J. Munster, E. de Wit, S. Sokolow, N. van Doremalen, P. Hudson, H. McCallum (2019). Dose-response and transmission: the nexus between reservoir hosts, environment, and recipient hosts. *Philosophical Transactions of the Royal Society B*, 374(1782): 20190016. DOI: 10.1098/rstb.2019.0016.
7. Becker, D.J., G.F. Albery, M.K. Kessler, **T.J. Lunn**, C.A. Falvo, G.Á. Czirják, L.B. Martin, R.K. Plowright (2019). Macroimmunology: the drivers and consequences of spatial patterns in wildlife immune defense. *Journal of Animal Ecology*, 89(4): 972-995. DOI: 10.1111/1365-2656.13166. [**Winner of the 2020 Sidnie Manton Award**].
6. Kessler, M.K., D.J. Becker, A.J. Peel, N.V. Justice, **T. Lunn**, D.E. Crowley, D.N. Jones, P. Eby, C.A. Sanchez, R.K. Plowright (2018). Changing resource landscapes and spillover of henipaviruses. *Annals of the New York Academy of Sciences*, 1429(1):78-99. DOI: 10.1111/nyas.13910.
5. **Lunn, T.**, M. Gerwin*, J. Buettel, B. Brook (2018). Impact of intense disturbance on the structure and composition of wet-eucalypt forests: A case study from the Tasmanian 2016 wildfires. *PLoS ONE*, 13(7): e0200905. DOI: 10.1371/journal.pone.0200905.

4. **Lunn, T**., S. Munks, S. Carver (2017). Impacts of timber harvest on stream biota – an expanding field of heterogeneity. *Biological Conservation*, 213:154-166. DOI: 10.1016/j.biocon.2017.06.025.
3. Peel, A., P. Eby, M. Kessler, **T. Lunn**, A. Breed, R. Plowright (2017). Hendra virus spillover risk in horses: heightened vigilance and precautions being urged this winter. *Australian Veterinary Journal*, 95(7):20-21. DOI: 10.1111/avj.197.
2. **Lunn, T**., J. Macgregor, S. Munks, S. Carver (2016). *Dermatophilus congolensis* infection in platypus (*Ornithorhynchus anatinus*), Tasmania, Australia, 2015. *Journal of Wildlife Diseases*, 52(4): 965-967. DOI: 10.7589/2016-02-030R.
1. Carver, S., S. N. Bevins, M. R. Lappin, E. E. Boydston, L. M. Lyren, M. Alldredge, K. A. Logan, L. L. Sweanor, S. P. D. Riley, L. E. K. Serieys, R. N. Fisher, T. W. Vickers, W. Boyce, R. McBride, M. C. Cunningham, M. Jennings, J. Lewis, **T. Lunn**, K. R. Crooks, and S. VandeWoude (2016). Pathogen exposure varies widely among sympatric populations of wild and domestic felids across the United States. *Ecological Applications*, 26(2):367-381. DOI: 10.1890/15-0445.

Manuscripts in review or revision for publication (preprints available on request)

28. **Lunn, T.J.,** B. Borremans, D.N. Jones, M.K. Kessler, A.S. Dale, K.C. Yinda, M. Ruiz-Aravena, C.A. Falvo, D. Crowley, J. O. Lloyd-Smith, V.J. Munster, P. Eby, H. McCallum, P. Hudson, O. Restif, L.P. McGuire, I.L. Smith, Bat One Health Group, R.K. Plowright, AJ. Peel (in review). Periodic shifts in viral load increase risk of spillover from bats. The *Lancet Public Health*.
27. Peel, A.J., M. Ruiz-Aravena, K. Kim, B. Scherting, C.A. Falvo, D. Crowley, V.J. Munster, E. Annand, K. Plain, D. Jones, **T.J. Lunn**, A. Dale, A. Hoegh, J-S Eden, R.K. Plowright (in review). Synchronized seasonal excretion of multiple coronaviruses in Australian Pteropus spp is associated with co-infections in juvenile and sub-adult bats. *Nature Communications.*
26. Ogola, J., H. Alburkat, T. Smura, L. Kareinen, R. Kant, E.M. Korhonen, **T.J. Lunn**, M. Masika, P.W. Webala, P. Nyaga, O. Anzala, O. Vapalahti, K.M. Forbes, T.A. Sironen (in review). Detection and genetic characterization of alphacoronaviruses in co-roosting bat species, southeastern Kenya. *PLOS Neglected Tropical Diseases*.
25. Crowley, D., C.A. Falvo, C.K. Grant, **T.J. Lunn**, D.N. Jones, T. Bushmaker, A.S. Dale, E. Benson, B. Borremans, D. Becker, C.D. McKee, Y.T Yu, M. Ruiz-Aravena, E. Laing, C. Broder, S. Sterling, M. Michie, I. Smith, L.B. Goodman, V.J. Munster, Bat One Health Team, A. Apple, A.J. Peel, R.K. Plowright (in review). Cohorts of immature *Pteropus* bats show interannual variation in Hendra virus serology. *Journal of Animal Ecology.*
24. Jackson, R.T.*, **T. Lunn**, N. Mull, M. McClung, K. Forbes (in review). Global patterns of reported human-wildlife interactions in areas of land-use change. *Global Change Biology*.

Selected Conference Presentations and Posters

Conference presentations

2024	Periodic shifts in viral load increase risk of spillover from bats. *Hendra@30 Henipavirus International Conference*, Geelong, Australia. **[Invited speaker]**
2024	Modern Homes, Unexpected Guests: Meeting Kenya's Free-Tailed Bats. *Georgia Bat Working Group Meeting*, Columbus, United States
2023	Ecology of ebolavirus (Bombali virus) in Kenyan molossid bats. *Annual Review Meeting 2023 University of Nairobi STD/HIV/SRH Collaborative Research Group*, Nairobi, Kenya.
2022	Henipavirus Dynamics and Transmission in Pteropus Bats. *19th International Bat Research Conference / 50th Annual North American Symposium on Bat Research*, Austin, TX, United States. [**Invited speaker**]
2021	Review and evaluation of conventional wisdom on the roosting of flying foxes. *6th Annual National Flying-fox Forum*, online
2021	Spatial dynamics of pathogen transmission in communally roosting Pteropodids: implications for bat-virus dynamics under Anthropogenically induced ecological change. *6th International Berlin Bat Meeting*, online

2020 Spatial dynamics of pathogen transmission in communally roosting species: Hendra virus dynamics within flying-fox roosts. *Griffith University - Modelling Spatial Data Symposium*, Brisbane, Australia

2019 Bats, disease, and dynamic densities: Investigating community structure as a driver of viral dynamics in flying-foxes. *International Bat Research Conference*, Phuket, Thailand. **[Invited speaker]**

2019 Interactions between land use change, Pteropodid (flying-fox) ecology and Hendra virus dynamics in Australia. *British Ecological Society Annual Conference*, Belfast, Northern Ireland

2019 Interactions between land use change, flying-fox ecology and Hendra virus dynamics in Australia. *Annual Public Health@Cambridge Network Showcase 2019: Planetary Health*, Cambridge, England

2017 Flying-fox ecology and the dynamics of Hendra virus. *One Health Day, Griffith University*, Australia

Conference posters

2022 Ecology of ebolavirus (Bombali virus) in Kenyan molossid bats. *Ecology and Evolution of Infectious Diseases conference*, Atlanta, GA, United States

2018 Community structure and viral dynamics in flying-fox roosts: tackling non-linearity and heterogeneity in a dynamic system. *Wildlife Disease Association Australasian Conference*, Bali, Indonesia

2018 Community structure and viral dynamics in flying-fox roosts: tackling non-linearity and heterogeneity in a dynamic system. *Ecological Society of Australia*, Brisbane, Australia

Contributed talks/posters (incomplete)

2024 Neglecting an itch – emphasising the role of ectoparasites in microbial community ecology. *72nd Annual Wildlife Disease Association Conference*, Canberra, ACT, Australia

2024 No evidence of physiological stress in bats that share houses with humans*. Ecology and Evolution of Infectious Diseases (EEID) Conference,* Palo Alto, CA, United States [Poster]

2022 Temporal dynamics of coronavirus circulation in Australian Pteropus bat reservoirs. *Joint UK-ICN/CSIRO Cutting Edge Virtual Symposium on Coronaviruses with "Disease X" Potential*, online

2022 Estimating the spatiotemporal drivers of Hendra virus spillover in Australian flying foxes [Poster]

2022 Diversity of black flying fox gastrointestinal microbiome is positively associated with inflammation. *19th International Bat Research Conference / 50th Annual North American Symposium on Bat Research*, Austin, TX, United States

2022 Building roost selection by synanthropic bats in rural southeastern Kenya. *19th International Bat Research Conference / 50th Annual North American Symposium on Bat Research*, Austin, TX, United States

2021 Flying-fox foraging behavior and spillover of Hendra virus. *6th International Berlin Bat Meeting*, online

2018 Ectoparasite and endoparasite burdens of two sympatric flying fox species in Australia: implications for Hendra virus infection. *Wildlife Disease Association Australasian Conference*, Bali, Indonesia [Poster]

2018 Consumption of marginal diet plants by flying foxes associated with Hendra virus spillover. *Wildlife Disease Association Australasian Conference*, Bali, Indonesia [Poster]

2017 Platypuses and land-use practices: Catchment-scale studies provide some insight into the effect of forestry and agriculture. *International Mammalogical Congress*, Perth, Australia

Invited Presentations and Departmental Seminars

Honorariums

2022 Hendra virus dynamics and transmission in flying-foxes. *University of Montana Western*, Dillon, MT, United States

Other

2023 Periodic shifts in viral load increase risk of spillover from bats. *Center for the Ecology of Infectious Diseases, University of Georgia,* Athens GA, United States.

2023 Landscapes of risk: causes and consequences of bat-human interaction in Australia and Kenya. *Zoological Society of London*, London, England

2022 Preventing spillover of bat pathogens in high-risk global hotspots. *Odum School of Ecology, University of Georgia*, Athens GA, United States.

2021 Review and evaluation of conventional wisdom on the roosting of flying foxes. *Griffith University - Centre for Planetary Health and Food Security Seminar Series*, Brisbane, Australia

2020 Interactions between land use change, Pteropodid (flying-fox) ecology and Hendra virus dynamics in Australia. *Department of Veterinary Medicine, University of Cambridge*, Cambridge, England

2019 Investigating the dynamics of bat-borne diseases, with particular emphasis on Henipaviruses in flying foxes (fruit bats). *Rocky Mountain Laboratories*, Hamilton MO, United States

2019 Investigating the dynamics of bat-borne diseases, with particular emphasis on Henipaviruses in flying foxes (fruit bats). *University of Tasmania*, Sandy Bay, Australia

2016 Effectiveness of stream management for maintaining platypus (*Ornithorhynchus anatinus*) populations in headwaters. *Research update for the Forest Practices Authority (Monitoring the Effectiveness of the Biodiversity Provisions of the Tasmanian Forest Practices Code).*

Professional Service and Training

Service to professional societies

Manuscript reviewer: Nature Communications (3), Biological Conservation (2), Journal of Wildlife Diseases (2), Behavioral Ecology and Sociobiology (2), Science of the Total Environment (1), Pathogens and Global Health (1), Proceedings of the Royal Society B (2), PLOS One (2), Frontiers in Ecology and Evolution (2), Journal of Zoology (1), Royal Society Open Science (1), Ecology and Evolution (1), Bioscience (1)

Grant reviewer: BES Review College (2023, 2024), NSF CAREER (2024), NSF GRFP (2024)

Memberships: Wildlife Diseases Association, British Ecological Society, Australian Bat Society, Global South Bats

Service within UGA

Standing committees

2024– Graduate Program Committee

2024– Center for the Ecology of Infectious Diseases (CEID) Advisory Committee

Ad hoc

2024– Co-administrator, Viral Traits and Infectious Disease Emergence, September 9, 2024–September 10, 2024, Athens, United States

Science Communication, Outreach, and Engagement

Media coverage

2024	The Hidden Disease Risks of Modern Housing Development in Rural Africa, University of Arkansas News, November 19 2024

Student, family, and emeritus engagement

2024	Speaker, Family Day, Odum School of Ecology, University of Georgia
2024	Speaker, UGA Alumni Board meeting, Odum School of Ecology, University of Georgia
2024	Speaker, Emeritus Faculty Luncheon, Odum School of Ecology, University of Georgia

Public talks

2019	The curious world of bats & their researchers. *Pint of Science*, Brisbane, Australia

Community engagement

2023	*Wildlife Warrior Club, Maktau Secondary School*, Taita-Taveta county, Kenya
2023	*Taita Taveta Wildlife Club of Kenya Action group*, Taita-Taveta county, Kenya
2022	*Sagalla International Talent Academy*, Taita-Taveta county, Kenya

Articles & blogs

2021	Effects of changing habitats on bat-virus dynamics. *Animal Ecology in Focus*. Link
2022	EEID 2022 in Review. *British Ecological Society Parasites and Pathogens newsletter*. Link

Popular Tweets

February 2022	7.44K likes; 1.2K retweets; 75 comments; 333K impressions; 33.45K engagements (Twitter). 5.7K likes; 464 shares, 229 comments (Facebook)
April 2022	2.27K likes; 271 retweets; 23 comments; 56.5K impressions; 3.58K engagements
April 2022	1.91K likes; 254 retweets; 29 comments; 66.16K impressions; 3.85K engagements
April 2022	1.26K likes; 166 retweets; 39 comments; 46.33K impressions; 2.62K engagements
April 2022	905 likes; 86 retweets; 14 comments; 34K impressions; 2.43K engagements

Referees

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