

DANIEL J. BECKER

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- EDUCATION** Odum School of Ecology, University of Georgia, Athens, GA 08/2012–06/2017
PhD in Ecology. *Linking anthropogenic resources to wildlife–pathogen dynamics: from theory to vampire bats*. Advised by Sonia Altizer & Daniel Streicker
- Bard College, Annandale-on-Hudson, NY 05/2010
BA in Anthropology, Global Health, Science & Society. *From clinic to support group: medical expertise and Lyme disease in Dutchess County, NY*. Advised by Diana Brown
- POSITIONS** Intelligence Community Postdoctoral Fellow (Ellen Ketterson) 10/2018–present
Department of Biology, Indiana University, Bloomington, IN
- Postdoctoral Researcher (Raina Plowright) 08/2017–09/2018
Microbiology & Immunology, Montana State University, Bozeman, MT
- RESEARCH INTERESTS** Resource subsidies and disease ecology; ecoimmunology; mathematical models; multi-host pathogens; zoonoses of bats and birds; meta-analysis and comparative methods
- GRANTS & FELLOWSHIPS** Exploration Grant, National Geographic in advanced stages
Vampire bat diet, movement, and rabies virus risks in the changing landscape of Belize (\$20,000; PIs: **Becker**, Simmons, Fenton, Streicker, Jones, Parsons)
- ~\$414,000 total
- Niarchos Fund, American Museum of Natural History pending
Novel approaches to studying bats, parasites, & pathogens in an increasingly fragmented Neotropical forest system (\$50,000; PIs: Simmons, Ingala, Parsons, **Becker**)
- Intelligence Community Postdoctoral Fellowship, ORISE 2018–2020
Modeling changes in migratory behavior as a driver of zoonotic disease in an avian host (\$196,000; PIs: **Becker**, Ketterson)
- Small Grant, Royal Society of Tropical Medicine & Hygiene 2018–2020
Assessing how urbanization influences immune defense and zoonotic infections in Australian flying foxes (\$6,574; PIs: **Becker**, Rynda-Apple, Plowright)
- Theodore Roosevelt Memorial Grant, AMNH 2018–2019
Predictors of hemoplasma cross-species transmission in a Neotropical bat community (\$2,500; PI: **Becker**)
- Doctoral Dissertation Improvement Grant, National Science Foundation 2016–2018
Consequences of resource heterogeneity for immune defense, connectivity, and rabies dynamics in vampire bats (\$19,499; PIs: Altizer, Streicker, **Becker**)
- ARCS Foundation Award, ARCS Foundation 2014–2017
How livestock expansion affects vampire bat rabies and human disease risk in the Peruvian Amazon (\$21,000; PI: **Becker**)
- Graduate Research Fellowship, National Science Foundation 2014–2017
Resource availability and infection dynamics at the vampire bat–human interface (\$138,000; PI: **Becker**)

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| GRANTS (CONTINUED) | Exploration Fund Grant, Explorer's Club (\$2,500) | 2017 |
| | Small Grant for Graduate Research, Odum School of Ecology (\$1,492) | 2016 |
| | Grant-in-Aid of Research, American Society of Mammalogists (\$1,500) | 2016 |
| | Ecoimmunology Exchange Award, National Science Foundation (\$1,800) | 2015 |
| | Small Grant for Graduate Research, Odum School of Ecology (\$1,500) | 2015 |
| | Exploration Fund Grant, Explorer's Club (\$1,000) | 2015 |
| | Grant-in-Aid of Research, Sigma Xi (\$600) | 2015 |
| | Innovative and Interdisciplinary Grant, University of Georgia (\$1,500) | 2015 |
| | Exploration Fund Grant, Explorer's Club (\$2,250) | 2014 |
| | Grant-in-Aid of Research, Sigma Xi (\$385) | 2014 |
| | Ecoimmunology Exchange Award, National Science Foundation (\$1,500) | 2013 |
| | Grant-in-Aid of Research, American Society of Mammalogists (\$1,500) | 2013 |
| | Student Research Scholarship, Bat Conservation International (\$2,800) | 2013 |
| | One Health Seed Grant, University of Georgia (\$5,000) | 2013 |
| | Student Research Grant, Animal Behavior Society (\$1,000) | 2013 |
| | Tinker Graduate Field Research Award, University of Georgia (\$1,000) | 2013 |
| | Small Grant for Graduate Research, Odum School of Ecology (\$1,500) | 2013 |

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| AWARDS | Immunity Across Scales Workshop Travel Award, IDEAS RCN (\$1,600) | 2018 |
| | Robert C. Anderson Memorial Award, University of Georgia (\$1,000) | 2018 |
| | Nomination for Director's Award (with Raina Plowright), DARPA | 2018 |
| | Best Student Presentation, SICB Division of Ecoimmunology (\$150) | 2017 |
| | ARCS Foundation Atlanta 25th Anniversary Award (\$1,000) | 2016 |
| | Award for Excellence in Wildlife Conservation, University of Georgia (\$1,000) | 2016 |
| | Best Basic/Theoretical Student Paper, Odum School of Ecology (\$250) | 2016 |
| | Best Basic/Theoretical Student Paper, Odum School of Ecology (\$250) | 2016 |
| | Honorable Mention Lotka Prize, Ecological Society of America | 2015 |
| | Franz Boas & Ruth Benedict Prize in Anthropology, Bard College (\$500) | 2010 |
| | Bard College Senior Project Award, Bard College (\$500) | 2010 |

**PEER-
REVIEWED
PAPERS**

† corresponding author

* equal author contributions

mentored
undergraduate

mentored
graduate student

24. **Becker DJ**[†], Teitelbaum CT, Murray MH, Curry SE, Welch CN, Ellison T, Adams HC, Rozier RS, Lipp EK, Hernandez SH, Altizer S, Hall RJ. Assessing the contributions of intraspecific and environmental sources of infection in urban wildlife: *Salmonella* & white ibis as a case study. In press at *Journal of the Royal Society Interface*.

23. **Becker DJ**[†], Czirjak GA, Rynda-Apple A, Plowright RK. Handling stress and sample storage are associated with weaker complement-mediated bactericidal ability in birds but not bats. In press at *Physiological and Biochemical Zoology*.

22. Bergner LM[†], Orton RJ, da Silva Filipe A, Shaw AE, **Becker DJ**, Tello C, Biek R, Streicker DG. Using non-invasive metagenomics to characterize viral communities from wildlife. In press at *Molecular Ecology Resources*.

21. Washburne AD[†], Silverman JD, Morton JT, **Becker DJ**, Crowley DE, Mukherjee S, David LA, Plowright RK. Phylofactorization: a graph-partitioning algorithm to identify phylogenetic scales of ecological data. In press at *Ecological Monographs*.

20. Washburne AD[†], Crowley DE, **Becker DJ**, Olival KJ, Taylor M, Munster VJ, Plowright RK. Taxonomic patterns in the zoonotic potential of mammalian viruses. In press at *PeerJ*.

19. Sanchez CA*, **Becker DJ**^{*†}, Barriga P, Brown LM, Majewska AA, Teitelbaum CT, Hall RJ, Altizer S (2018). On the relationship between body condition & parasite infection in wildlife: a review and meta-analysis. *Ecology Letters* 21:1869–1884.

18. **Becker DJ**[†], Snedden C, Altizer S, Hall RJ (2018). Host dispersal responses to resource supplementation determine pathogen spread in wildlife metapopulations. *American Naturalist* 192:503–517.
17. **Becker DJ**[†], Bergner LM, Bentz AB, Orton RJ, Altizer S, Streicker DG (2018). Genetic diversity, infection prevalence, and possible transmission routes of *Bartonella* spp. in vampire bats. *PLoS Neglected Tropical Diseases* 12:e0006786.
16. Kessler MK[†], **Becker DJ**, Peel AJ, Justice NV, Lunn T, Crowley DE, Jones DN, Eby P, Sanchez CA, Plowright RK (2018). Changing resource landscapes and spillover of henipaviruses. *Annals of the New York Academy of Sciences* 1429:78–99
15. **Becker DJ**[†], Hall RJ, Forbes KM, Plowright RK, Altizer S (2018). Anthropogenic resource subsidies and host–parasite dynamics in wildlife. *Phil Trans R Soc B* 373:20170086.
14. **Becker DJ**[†], Czirjak GA, Volokhov DV, Bentz AB, Carrera JE, Camus MS, Navara KJ, Chizhikov VE, Fenton MB, Simmons NB, Recuenco SE, Gilbert AT, Altizer S, Streicker DG (2018). Livestock abundance predicts vampire bat demography, immune profiles and bacterial infection risk. *Phil Trans R Soc B* 373:20170089.
13. Altizer S[†], **Becker DJ**, Epstein JH, Forbes KM, Gillespie TR, Hall RJ, Hawley DM, Hernandez SM, Martin LB, Plowright RK, Satterfield DA, Streicker DG (2018). Food for contagion: synthesis and future directions for studying host–parasite responses to resource shifts in anthropogenic environments. *Phil Trans R Soc B* 373:20170102.
12. Martin G[†], **Becker DJ**, Plowright RK (2018). Environmental persistence of influenza H5N1 is driven by temperature and salinity: insights from a Bayesian meta-analysis. *Frontiers in Ecology & Evolution*. 6:131
11. **Becker DJ**[†], Streicker DG, Altizer S (2018). Using host species traits to understand the consequences of resource provisioning for host–parasite interactions. *Journal of Animal Ecology* 87:511–525.
10. **Becker DJ**[†], Chumchal MM, Broders HG, Korstian JM, Clare EL, Rainwater TR, Platt SG, Simmons NB, Fenton MB (2018). Mercury bioaccumulation in bats reflects dietary connectivity to aquatic food webs. *Environmental Pollution* 233:1076–1085.
9. Pusch EA, Bentz AB, **Becker DJ**, Navara KJ[†] (2018). Behavioral phenotype predicts physiological responses to chronic stress in proactive and reactive birds. *General and Comparative Endocrinology* 255:71–77.
8. Volokhov DV^{*†}, **Becker DJ**^{*}, Bergner LM, Camus MS, Orton RJ, Chizhikov VE, Altizer SM, Streicker DG (2017). Novel hemotropic mycoplasmas are widespread and genetically diverse in vampire bats. *Epidemiology & Infection* 145:3154–3167.
7. **Becker DJ**[†], Chumchal MM, Bentz AB, Platt SG, Czirjak GA, Rainwater TR, Altizer S, Streicker DG (2017). Predictors and immunological correlates of sublethal mercury exposure in vampire bats. *Royal Society Open Science* 4:170073.
6. Murray MH[†], **Becker DJ**, Hall RJ, Hernandez SM (2016). Wildlife health and supplemental feeding: A review and management recommendations. *Biological Conservation* 204:163–174.

5. Bentz AB[†], **Becker DJ**, Navara KJ (2016). Evolutionary implications of interspecific variation in a maternal effect: a meta-analysis of yolk testosterone response to competition. *Royal Society Open Science* 3:160499.
4. **Becker DJ**[†], Hall RJ (2016). Heterogeneity in patch quality buffers metapopulations from pathogen impacts. *Theoretical Ecology* 9:197–205.
3. **Becker DJ**, Oloya J, Ezeamama AE[†] (2015). Household socioeconomic and demographic correlates of *Cryptosporidium* seropositivity in the United States. *PLoS Neglected Tropical Diseases* 9:e0004080.
2. **Becker DJ**[†], Streicker DG, Altizer S (2015). Linking anthropogenic resources to wildlife–pathogen dynamics: a review & meta-analysis. *Ecology Letters* 18:483–495.
1. **Becker DJ**[†], Hall RJ (2014). Too much of a good thing: resource provisioning alters infectious disease dynamics in wildlife. *Biology Letters* 10:20140309.

**PAPERS IN
ADVANCED
STAGES**

25. **Becker DJ**[†], Crowley DE, Washburne AD, Plowright RK. Temporal and spatial limitations in global surveillance for bat filoviruses and henipaviruses. In review at *Emerging Infectious Diseases*.
26. Botto G[†], **Becker DJ**, Plowright RK. Historical context helps resolve the emergence of vampire bat rabies in Uruguay. In review at *Epidemiology & Infection*.
27. Plowright RK[†], **Becker DJ**, Crowley DE, Washburne AD, Huang T, Nameer PO, Han BA. Identifying reservoirs to prioritize surveillance of Nipah virus in India. In review at *PLoS Neglected Tropical Diseases*.
28. Crowley DE,[†] Washburne AD, **Becker DJ**, Plowright RK. Phylogenetic analysis of bat reservoirs for filoviruses and henipaviruses. In review at *Emerging Infectious Diseases*.
29. Murray MH^{*†}, Sanchez CA^{*}, **Becker DJ**, Byers KA, Worsely-Tonks KEL, Craft ME. City sicker: a meta-analysis of shifts in wildlife health with urbanization. In review at *Frontiers in Ecology and the Environment*.
30. **Becker DJ**[†], Schoenle LA, Downs CJ, Martin LB. The eco-evolutionary context and epidemiological consequences of host immune defense in a variable world. In prep for *Integrative & Comparative Biology*.
31. **Becker DJ**[†], Nachtmann C, Argibay HD, Botto G, Escalera-Zamudio M, Carerra JE, Tello C, Winiarski E, Greenwood AD, Rojas-Anaya E, Loza-Rubio E, Lavergne A, de Thoisy B, Czirjak GA, Plowright RK, Altizer S, Streicker DG. Leukocyte profiles reflect local environment and biogeography in a widespread Neotropical bat species. In prep for *Integrative & Comparative Biology*.
32. Albery GF[†], **Becker DJ**, Kenyon F, Nussey DH, Pemberton JM. The fine-scale landscape of immunity and parasitism in a wild ungulate population. In prep for *Integrative & Comparative Biology*.
33. **Becker DJ**[†], Albery GF, Lunn T, Kessler MK, Falvo C, McGuire LP, Higgs M, Martin LM, Czirjak GA, Plowright RK. Landscape immunology: the spatial dimensions of wildlife immune defense. In prep for *Journal of Animal Ecology*.

34. Bergner LM[†], Orton RJ, Benavides JA, **Becker DJ**, Biek R, Streicker DG. Ecological metagenomics reveals effects of host demography and environmental heterogeneity on viral diversity in vampire bats. In prep for *Ecology Letters*.
35. Ingala MR[†], **Becker DJ**, Holm JB, Streicker DG, Simmons NB, Kristiansen K. Habitat fragmentation is associated with dietary and microbiome changes in vampire bats. In prep for *Ecology & Evolution*.
36. Plowright RK[†], **Becker DJ**, Manlove KR, Irvine K, McCallum H, Cross PC. From status to dynamics: sampling strategies to elucidate the dynamics of emerging infections in their reservoir hosts. In prep for *Phil Trans R Soc B*.
37. Glennon EE[†], **Becker DJ**, Peel AJ, Garnier R, Suu-Ire R, Baker KS, Wood JLN, Cunningham AA, Plowright RK, Restif O. Modeling mechanisms of henipavirus circulation in fruit bat hosts. In prep for *Phil Trans R Soc B*.
38. Washburne AD[†], Crowley DE, **Becker DJ**, Manlove KR, Plowright RK. Percolation models of pathogen spillover risk. In prep for *Phil Trans R Soc B*.
39. **Becker DJ**[†], Han BA, Washburne AD, Pulliam JRC, Mordecai EA, Faust CL, Lloyd-Smith JO, Hudson PJ, Plowright RK. Interplay between phylogenetic, spatial, and temporal scales for predicting spillover risks. In prep for *Phil Trans R Soc B*.
40. **Becker DJ**[†], Yee B, Altizer S, Streicker DG, Field KA. Transcriptomics suggest food provisioning is associated with upregulated antibacterial and antiviral immunity in vampire bats. In prep for *Functional Ecology*.
41. **Becker DJ**[†], Hall RJ, Broos A, Bergner LA, Recuenco SE, Altizer S, Streicker DG. Resource-dependent resistance, not tolerance or waning immunity, explains landscape patterns of rabies seroprevalence in vampire bats. In prep for *Ecology Letters*.
42. **Becker DJ**, Glennon EE, Eby P, Peel AJ, Restif O, Plowright RK. Food scarcity and urban habituation drive spatiotemporal pulses of Hendra virus shedding in Australian flying foxes. In prep for *Ecology Letters*.

**ONGOING
EXTERNAL
PROJECTS**

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| Multi-scale modeling of bat virus spillover PIs: Raina Plowright and Peter Hudson | DARPA PREEMPT 10/2018–present |
| Immunity across scales PIs: Clay Cressler and Andrea Graham | NSF DEB 1354890 05/2018–present |
| Neotropical bat pathogens, ectoparasites, and microbiomes PIs: Kelly Speer, Melissa Ingala, Nancy Simmons | AMNH, NY 05/2017–present |
| Constraints of biomass on innate immunity PIs: Cynthia Downs, Lynn Martin, Hongyuan Jiang [†] | NSF IOS 1656618 05/2017–present |
| Anthropogenic resources and <i>Salmonella</i> in urban ibis PIs: Sonia Hernandez, Richard Hall, Kristen Navara, Sonia Altizer | NSF DEB 1518611 05/2016–present |
| Vampire bat viral metagenomics and dynamics PI: Daniel Streicker | Wellcome Trust 102507/Z/13/Z 05/2016–present |

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| INVITED TALKS & SEMINARS | Society for Integrative and Comparative Biology, Tampa, FL | 2019 |
| | Ecological Society of America, New Orleans, LA | 2018 |
| | Disease Dynamics Unit, Cambridge University, Cambridge UK | 2018 |
| | EEB Brown Bag Seminar, Indiana University, Bloomington, IN | 2018 |
| | International Urban Wildlife Conference, San Diego, CA | 2017 |
| | Institute of BAHCM, University of Glasgow, Glasgow, United Kingdom | 2017 |
| | Georgia Bat Working Group Meeting, Athens, GA | 2016 |
| | Center for the Ecology of Infectious Disease, University of Georgia, Athens, GA | 2016 |
| | International Association of Landscape Ecology World Congress, Portland, OR | 2015 |
| CONFERENCE TALKS & POSTERS | Ecological Society of America, New Orleans, LA | 2018 |
| | Ecology and Evolution of Infectious Diseases, Glasgow, UK (poster) | 2018 |
| | Society for Integrative and Comparative Biology, San Francisco, CA | 2018 |
| | Ecological Society of America, Portland, OR | 2017 |
| | Society for Integrative and Comparative Biology, New Orleans, LA | 2017 |
| | Ecological Society of America, Fort Lauderdale, FL | 2016 |
| | Ecology and Evolution of Infectious Diseases, Ithaca, NY (poster) | 2016 |
| | Society for Integrative and Comparative Biology, Portland, OR | 2016 |
| | Ecological Society of America, Baltimore, MD | 2015 |
| | Ecology and Evolution of Infectious Diseases, Athens, GA (poster) | 2015 |
| | Society for Integrative and Comparative Biology, West Palm Beach, FL | 2015 |
| | Ecology and Evolution of Infectious Diseases, State College, PA (poster) | 2013 |
| DATA ANALYSIS WORKSHOPS | Becker DJ. Introduction to linear mixed models, AIC, and implementation in R. Department of Biology, Appalachian State University, Boone, NC, 2017. | |
| | Becker DJ. Conducting hierarchical meta-analysis in ecology and evolutionary biology. Odum School of Ecology, University of Georgia, Athens, GA, 2016. | |
| | Becker DJ. The analysis of infectious disease data using R (in Spanish). Instituto Nacional de Salud, Lima, Peru, 2015. | |
| GUEST LECTURES & SEMINARS | Becker DJ. Bat rabies in North America. FNR 2400 Wildlife in America. Purdue University, West Lafayette, IN, 2018. | |
| | Becker DJ. Vampire bat immunity and infection in a changing world. MB 560 Infectious Disease Ecology, Montana State University, Bozeman, MT, 2017. | |
| | Becker DJ. Guest facilitator for weekly journal club. NSF REU Population Biology of Infectious Diseases, University of Georgia, Athens, GA, 2015-2017. | |
| | Becker DJ. Ecological approaches to zoonoses in changing landscapes. BIOL 1990 Orientation to Biology Programs, University of Georgia, Athens, GA, 2016. | |
| | Becker DJ. Supplemental feeding and wildlife health. ECOL 3480 Urban Landscape Ecology, University of Georgia, Athens, GA, 2016. | |
| | Becker DJ. Resources, nutrition, stress, and immunity. ECOL 4150 Population Biology of Infectious Diseases, University of Georgia, Athens, GA, 2015. | |
| | Becker DJ. Sustainability and Amazonia. EUS 101 Introduction to Environmental and Urban Studies, Bard College, Annandale-on-Hudson, NY, 2009. | |

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| STUDENT MENTORING | Katie Talbott (PhD, IU); avian disease ecology | 2018–present |
| | German Botto (PhD, MSU); pathogen detection in Belizean bats | 2018–present |
| | Natalia Herrera (PhD, UToronto; Belize bat sampling & hematology | 2018 |
| | Ticha Padgett (UG, MSU); pathogen detection in Belizean bats | 2018 |
| | Jorge Carrera (UG, Universidad Nacional de Piura); bat ecology | 2013–2016 |
| | Katie Smith (DVM, UGA); vampire bat immunology & data analysis | 2016 |
| | Celine Snedden (REU, UC Berkeley); metapopulation & disease modeling | 2016 |
| | Andre Jove (UG, UGA): vampire bat hematology & PCR methods | 2016 |
| | Ceci Nachtmann (UG, UGA): vampire bat hematology & DNA extraction | 2016 |
| | Ruth Schade (UG, UGA): quantifying vampire bat erythrocyte morphology | 2015 |
| | Katherine Gilman (PB, BU): vampire bat capture & sampling in Peru | 2014 |
| | Kishana Taylor (PhD, UGA): hematology for Integrative Life Sciences rotation | 2013 |
| | Malavika Rajeev (PB, UGA): vampire bat capture & sampling in Peru | 2013 |
| SCIENTIFIC OUTREACH | Guest Presenter, Oconee Rivers Audubon Society, Athens, GA | 2017 |
| | Guest Presenter, Caring for the Winged Ones Summer Camp, Helen, GA | 2016 |
| | British Ornithologists' Union Biotweeps Participant | 2016 |
| | Volunteer Judge, Georgia Science and Engineering Fair, Athens, GA | 2015, 2016 |
| SCIENTIFIC LEADERSHIP | Symposium Organizer (SYMP 2), SICB 2019 Annual Meeting | 2017–present |
| | <i>Phil Trans R Soc B</i> Theme Issue Organizer | 2017–present |
| | Student Liaison, Disease Ecology Section, ESA | 2016–2018 |
| | Representative, Division of Ecoimmunology & Disease Ecology, SICB | 2015–2018 |
| | Workshop Organizer (DARPA spillover), Montana State University | 2017–2018 |
| | Advisory Board, Center for the Ecology of Infectious Disease, UGA | 2016–2017 |
| | <i>Phil Trans R Soc B</i> Theme Issue Organizer | 2016–2017 |
| Symposium Organizer (SYMP 8), ESA 2016 Annual Meeting | 2015–2016 | |
| ACADEMIC SERVICE | Webmaster, Women in Science University of Georgia | 2015–2017 |
| | Grant Database Coordinator, Odum School of Ecology | 2015–2016 |
| | Treasurer, Odum School of Ecology | 2013–2014, 2015–2016 |
| EDITORIAL POSITIONS | Guest Editor, <i>Philosophical Transactions of the Royal Society B</i> | 2017–present |
| | Academic Editor, <i>PLoS ONE</i> | 2018–present |
| | Junior Editorial Board Member, <i>Journal of Experimental Zoology A</i> | 2018–present |
| | Student Editorial Assistant, <i>EcoHealth</i> | 2012–2017 |
| | Editorial Intern, <i>The Georgia Review</i> | 2014 |
| | Editorial Administrator, <i>Annals of the New York Academy of Sciences</i> | 2010–2012 |
| AD HOC REVIEWER | <i>Archives of Environmental Contamination and Toxicology; Biology Letters; BMC Ecology; Conservation Letters; EcoHealth; Ecology Letters; Environmental Earth Sciences; Environmental Pollution; Epidemiology & Infection; Evolution; Frontiers in Immunology; Functional Ecology; Infection, Genetics & Evolution; Journal of Animal Ecology; Journal of Applied Ecology; Journal of Urban Ecology; Mammalian Biology; Nature Communications; Oikos; PeerJ; Philosophical Transactions of the Royal Society B; PLoS Biology; PLoS ONE; PLoS Pathogens; Proceedings of the Royal Society B; Royal Society Open Science; Science of the Total Environment; Scientific Reports</i> | |
| Publons page | | |
| GRANT REVIEWER | Animal Behavior Society Student Research Grants | |

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| PAST RESEARCH POSITIONS | Field Technician, University of Wisconsin, Boulder Creek, CA | 2012 |
| | Research Assistant, Department of Parks & Recreation, Queens, NY | 2010–2012 |
| | Research Fellow, Blacksmith Institute, New York, NY | 2010–2012 |
| | Project Assistant, Cary Institute of Ecosystem Studies, Millbrook, NY | 2011 |
| | Intern, Center for Health, Environment & Justice, Falls Church, VA | 2009 |
| ADDITIONAL TRAINING | Introduction to Spatial Statistics, British Ecological Society | 2018 |
| | Parameter Estimation for Dynamic Biological Models, NIMBioS | 2014 |
| | Dynamical Approaches to Disease Data, Emerging Pathogens Institute | 2013 |
| | Stable Isotope Ecology, Canadian Institute of Ecology & Evolution | 2013 |
| | Fundamentals of Ecosystem Ecology, Cary Institute of Ecosystem Studies | 2009 |
| SOCIETY AFFILIATIONS | Ecological Society of America | |
| | Society for Integrative & Comparative Biology | |
| | Royal Society of Tropical Medicine & Hygiene | |
| REFERENCES | Sonia Altizer, Professor Odum School of Ecology, University of Georgia email: saltizer@uga.edu , phone: 706.542.9251 | |
| | Raina Plowright, Assistant Professor Department of Microbiology & Immunology, Montana State University email: raina.plowright@montana.edu , phone: 406.994.2939 | |
| | Ellen Ketterson, Distinguished Professor Department of Biology, Indiana University email: ketterso@indiana.edu , phone: 812.855.6837 | |
| | Richard Hall, Assistant Professor Odum School of Ecology, University of Georgia email: rjhall@uga.edu , phone: 706.395.5350 | |
| | Daniel Streicker, Research Fellow Institute of BAHCM, University of Glasgow email: daniel.streicker@glasgow.ac.uk , phone: 44(0)141.330.6632 | |
| | Nancy Simmons, Curator-in-Charge Department of Mammalogy, American Museum of Natural History email: simmons@amnh.org , phone: 212.769.5483 | |