

## DANIEL J. BECKER

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<b>POSITIONS</b>	Assistant Professor Department of Biology, University of Oklahoma, Norman, OK	starting 2021
	Intelligence Community Postdoctoral Fellow Department of Biology, Indiana University, Bloomington, IN	2018–2021
	Postdoctoral Researcher Microbiology & Immunology, Montana State University, Bozeman, MT	2017–2018
<b>EDUCATION</b>	Odum School of Ecology, University of Georgia, Athens, GA PhD in Ecology. <i>Linking anthropogenic resources to wildlife–pathogen dynamics: from theory to vampire bats</i> . Advised by Sonia Altizer & Daniel Streicker	2017
	Bard College, Annandale-on-Hudson, NY BA in Anthropology, Global Health, Science & Society. <i>From clinic to support group: medical expertise and Lyme disease in Dutchess County, NY</i> . Advised by Diana Brown	2010
<b>RESEARCH INTERESTS</b>	Zoonotic pathogens of bats and birds; mathematical models; environmental change; ecoimmunology; phylogenetic comparative methods; meta-analysis; macroecology	
<b>CURRENT FUNDING</b>	Innovation Award, Field Museum of Natural History <i>Testing predictions of betacoronavirus hosts with the FMNH mammal tissue collection</i> (\$55,000; PIs: Ferguson, <b>Becker</b> , and seven other contributing collaborators)	2020–2022
	Biology Integration Institutes, National Science Foundation <i>Ecology and evolution of the global virome using big data &amp; machine learning</i> (\$166,189; PIs: Carlson & Dallas, <b>Becker</b> as one of 13 contributing collaborators)	2020–2022
	Exploration Grant, National Geographic <i>Vampire bat diet, movement, and rabies virus risks in the changing landscape of Belize</i> (\$28,510; PIs: <b>Becker</b> , Simmons, Fenton, Briggs-Gonzalez, Streicker, Parsons)	2019–2021
	Intelligence Community Postdoctoral Fellowship, ORISE <i>Modeling changes in migratory behavior as a driver of zoonotic disease in an avian host</i> (\$196,000; PIs: <b>Becker</b> , Ketterson)	2018–2021
	Environmental Resilience Institute, Indiana University <i>Forecasting disease risks in Indiana: what role do urbanized migratory birds play?</i> (\$30,049; PIs: Jahn, <b>Becker</b> , Smiley, Clark, Ketterson)	2019–2020
<b>PRIOR FUNDING</b>	Small Grant, Royal Society of Tropical Medicine & Hygiene <i>Assessing how urbanization influences immune defense and zoonotic infections in Australian flying foxes</i> (\$6,574; PIs: <b>Becker</b> , Rynda-Apple, Plowright)	2018–2020
	Doctoral Dissertation Improvement Grant, National Science Foundation <i>Consequences of resource heterogeneity for immune defense, connectivity, and rabies dynamics in vampire bats</i> (\$19,499; PIs: Altizer, Streicker, <b>Becker</b> )	2016–2018

<b>PRIOR FUNDING (CONTINUED)</b>	Theodore Roosevelt Memorial Grant, AMNH	2018
	Immunity Across Scales Workshop Travel Award, IDEAS RCN	2018
	Exploration Fund Grant, Explorer's Club	2017
	Small Grant for Graduate Research, Odum School of Ecology	2016
	Grant-in-Aid of Research, American Society of Mammalogists	2016
	Ecoimmunology Exchange Award, National Science Foundation	2015
	Small Grant for Graduate Research, Odum School of Ecology	2015
	Exploration Fund Grant, Explorer's Club	2015
	Grant-in-Aid of Research, Sigma Xi	2015
	Innovative and Interdisciplinary Grant, University of Georgia	2015
	Exploration Fund Grant, Explorer's Club	2014
	Grant-in-Aid of Research, Sigma Xi	2014
	ARCS Foundation Award, ARCS Foundation	2014–2017
	Graduate Research Fellowship, National Science Foundation	2014–2017
	Ecoimmunology Exchange Award, National Science Foundation	2013
	Grant-in-Aid of Research, American Society of Mammalogists	2013
	Student Research Scholarship, Bat Conservation International	2013
	One Health Seed Grant, University of Georgia	2013
	Student Research Grant, Animal Behavior Society	2013
	Tinker Graduate Field Research Award, University of Georgia	2013
Small Grant for Graduate Research, Odum School of Ecology	2013	

<b>AWARDS</b>	Sidnie Manton Award, British Ecological Society	2020
	Robert C. Anderson Memorial Award, University of Georgia	2018
	Nomination for Director's Award (with Raina Plowright), DARPA	2018
	Best Student Presentation, SICB Division of Ecoimmunology	2017
	ARCS Foundation Atlanta 25th Anniversary Award	2016
	Award for Excellence in Wildlife Conservation, University of Georgia	2016
	Best Basic/Theoretical Student Paper, Odum School of Ecology	2016
	Best Basic/Theoretical Student Paper, Odum School of Ecology	2015
	Honorable Mention Lotka Prize, Ecological Society of America	2015
	Real-Brown Travel Award, Ecological Society of America	2015
	Graduate School Travel Award, University of Georgia	2015
	Franz Boas & Ruth Benedict Prize in Anthropology, Bard College	2010
	Bard College Senior Project Award, Bard College	2010
	Bard Junior Fellowship, Bard College	2009
	Human Rights Project Internship Award, Bard College	2009

**PEER-REVIEWED PAPERS**

53. Ezenwa VO, Civitello DJ, Barton BT, **Becker DJ**, Brenn-White M, Classen AT, Deem SL, Johnson Z, Kutz SJ, Malishev M, Penczykowski RM, Preston DL, Vannatta JT, Koltz AM. Infectious disease, livestock, and methane: an impending vicious cycle? In press at *Trends in Ecology & Evolution*.

[Google Scholar](#)

\* equal author contributions

52. **Becker DJ**, Singh D, Pan Q, Montoure JM, Talbott KM, Wanamaker SM, Ketterson ED. 2020. Artificial light at night amplifies seasonal relapse of haemosporidian parasites in a widespread songbird. *Proceedings B* 287:20201831.

51. **Becker DJ**, Seifert SN, Carlson CJ. 2020. Beyond infection: integrating competence into reservoir host prediction. *Trends in Ecology & Evolution*.

50. **Becker DJ**, Ketterson ED, Hall RJ. 2020. Reactivation of latent infections with migration shapes population-level infection dynamics. *Proceedings B* 287:20201829.

49. Meza DK, Broos A, **Becker DJ**, Behdenna A, Willet B, Viana M, Streicker DG. 2020. Predicting the presence and titer of rabies virus neutralizing antibodies from low-volume serum samples in low-containment facilities. *Transboundary & Emerging Diseases*.
48. **Becker DJ**, Broos A, Bergner LM, Meza DK, Simmons NB, Fenton MB, Altizer S, Streicker DG. 2020. Temporal patterns of vampire bat rabies and host connectivity in Belize. *Transboundary & Emerging Diseases*.
47. **Becker DJ**, Albery GF. 2020. Expanding host specificity and pathogen sharing beyond viruses. *Molecular Ecology* 29(17):3170–2.
46. Botto G, **Becker DJ**, Lawrence RL, Plowright RK. 2020. Synergistic effects of grassland fragmentation & temperature on bovine rabies emergence. *EcoHealth* 17(2):203–16.
45. Fenton MB, Mubareka S, Tsang SM, Simmons NB, **Becker DJ**. 2020. COVID-19 and threats to bats. *FACETS* 5:349–352.
44. Crowley DE, **Becker DJ**, Washburne AD, Plowright RK. 2020. Identifying suspect bat reservoirs for emerging infections. *Vaccines* 8:228.
43. **Becker DJ**, Speer KA, Brown AB, Washburne AD, Fenton MB, Altizer S, Streicker DG, Plowright RK, Chizhokov VE, Simmons NB, Volokhov DV. 2020. Ecological and evolutionary drivers of haemoplasma infection and bacterial genotype sharing in a Neotropical bat community. *Molecular Ecology* 29:1534–1549.
42. **Becker DJ**, Albery GF, Kessler MK, Lunn T, Falvo CA, Czirjak GA, Martin LM, Plowright RK. 2020. Macroimmunology: the drivers and consequences of spatial patterns in wildlife immune defense. *Journal of Animal Ecology* 89:972–995.
41. Bergner LM, Orton RJ, Benavides JA, **Becker DJ**, Tello C, Biek R, Streicker DG. 2020. Demographic and environmental drivers of metagenomic viral diversity in vampire bats. *Molecular Ecology* 29:26–39.
40. **Becker DJ**, Talbott KM, Smiley TM, Clark KL, Sauer PE, Ketterson ED. 2019. Leukocyte profiles vary with breeding latitude and infection status in a seasonally sympatric songbird. *Animal Migration* 6:28–40.
39. **Becker DJ**<sup>\*</sup>, Schultz EM<sup>\*</sup>, Atwell JW, Ketterson ED. 2019. Urban residency & leukocyte profiles in a traditionally migratory songbird. *Animal Migration* 6:49–59.
38. **Becker DJ**, Crowley DE, Washburne AD, Plowright RK. 2019. Temporal and spatial limitations in global surveillance for bat filoviruses and henipaviruses. *Biology Letters* 15:20190423.
37. Murray MH, Sanchez CA, **Becker DJ**, Byers KA, Worsely-Tonks KEL, Craft ME. 2019. City sicker: a meta-analysis of shifts in wildlife health with urbanization. *Frontiers in Ecology and the Environment* 17:575–583.
36. **Becker DJ**, Downs CJ, Martin LB. 2019. Multi-scale drivers of immunological variation and consequences for infectious disease dynamics. *Integrative & Comparative Biology* 59:1129–1137.

35. **Becker DJ**, Washburne AD, Faust, CL, Mordecai EA, Plowright RK. 2019. The problem of scale in the prediction and management of pathogen spillover. *Phil Trans R Soc B* 374:20190224.
34. Plowright RK, **Becker DJ**, McCallum H, Manlove KR. 2019. Sampling to elucidate the dynamics of infections in reservoir hosts. *Phil Trans R Soc B* 374:20180336.
33. Glennon EE, **Becker DJ**, Peel AJ, Garnier R, Suu-Ire R, Baker KS, Gibson L, Hayman DTS, Wood JLN, Cunningham AA, Plowright RK, Restif O. 2019. Modeling mechanisms of henipavirus circulation in bats. *Phil Trans R Soc B* 374:20190021.
32. Washburne AD, Crowley DE, **Becker DJ**, Manlove KR, Childs ML, Plowright RK. 2019. Percolation models of pathogen spillover risk. *Phil Trans R Soc B* 374:20180331.
31. Sokolow SH, Nova N, Pepin KM, Peel AJ, Manlove KR, Cross PC, **Becker DJ**, Plowright RK, Pulliam JRC, McCallum H, De Leo GA. 2019. Ecological levers to prevent and manage pathogen spillover. *Phil Trans R Soc B*. 374:20180342
30. **Becker DJ**, Washburne AD, Mordecai EA, Faust CL, Pulliam JRC, Lloyd-Smith JO, Plowright RK. 2019. Dynamic and integrative approaches to understanding pathogen spillover. *Phil Trans R Soc B* 374:20190014.
29. Plowright RK, **Becker DJ**, Crowley DE, Washburne AD, Huang T, Nameer PO, Gurley ES, Han BA. 2019. Prioritizing surveillance of Nipah virus in India. *PLoS Neglected Tropical Diseases* 13:e0007393.
28. Ingala MR, **Becker DJ**, Holm JB, Kristiansen K, Simmons NB. 2019. Habitat fragmentation is associated with dietary shifts and microbiota variability in common vampire bats. *Ecology & Evolution* 0:10.1002/ece3.5228.
27. Albery GF, **Becker DJ**, Kenyon F, Nussey DH, Pemberton JM. 2019. The fine-scale landscape of immunity and parasitism in a wild ungulate population. *Integrative & Comparative Biology* 0:10.1093/icb/icz016.
26. Botto G, **Becker DJ**, Plowright RK. 2019. The emergence of vampire bat rabies in Uruguay within a historical context. *Epidemiology & Infection* 147.
25. **Becker DJ**, Nachtmann C, Argibay HD, Botto G, Escalera-Zamudio M, Carerra JE, Winiarski E, Greenwood AD, Mendez-Ojeda ML, Loza-Rubio E, Lavergne A, de Thoisy B, Czirjak GA, Plowright RK, Altizer S, Streicker DG. 2019. Leukocyte profiles reflect geographic range limits in a widespread Neotropical bat. *Integrative & Comparative Biology* 59:1176–1189.
24. Washburne AD, Silverman JD, Morton JT, **Becker DJ**, Crowley DE, Mukherjee S, David LA, Plowright RK. 2019. Phylofactorization: a graph-partitioning algorithm to identify phylogenetic scales of ecological data. *Ecological Monographs* 0:e01353.
23. Bergner LM, Orton RJ, da Silva Filipe A, Shaw AE, **Becker DJ**, Tello C, Biek R, Streicker DG. 2018. Using non-invasive metagenomics to characterize viral communities from wildlife. *Molecular Ecology Resources* 19:128–143.

22. **Becker DJ**, Czirjak GA, Rynda-Apple A, Plowright RK. 2018. Handling stress and sample storage are associated with weaker complement-mediated bactericidal ability in birds but not bats. *Physiological and Biochemical Zoology* 92:37–48.
21. **Becker DJ**, Teitelbaum CT, Murray MH, Curry SE, Welch CN, Ellison T, Adams HC, Rozier RS, Lipp EK, Hernandez SH, Altizer S, Hall RJ. 2018. Assessing the contributions of intraspecific and environmental sources of infection in urban wildlife: *Salmonella* & white ibis as a case study. *J Royal Society Interface* 15:20180654.
20. Washburne AD, Crowley DE, **Becker DJ**, Olival KJ, Taylor M, Munster VJ, Plowright RK. 2018. Taxonomic patterns in the zoonotic potential of mammalian viruses. *PeerJ* 6:e5979.
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**, Chunchal 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. 2017. 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. 2016. 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. 2015. 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. 2014. 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.
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- PAPERS IN  
ADVANCED  
STAGES**

54. Griffiths M, Bergner LM, Broos A, Da Silva Filipe A, Davison A, Tello C, **Becker DJ**, Streicker DG. Biological features of a novel herpesvirus open prospects to control bat rabies with transmissible vaccines. In revision.
  55. Albery GA, **Becker DJ**. Fast-lived hosts and zoonotic risk. In revision.
  56. **Becker DJ**, Han BA. The macroecology and evolution of avian competence for *Borrelia burgdorferi*. In revision.
  57. **Becker DJ**, Speer KA, Brown AB, Korstian JM, Volokhov DV, Droke HF, Padgett-Stewart T, Broders HG, Plowright RK, Rainwater TR, Fenton MB, Simmons NB, Chumchal MM. Disentangling the interactions between mercury, immunity, and infection in a Neotropical bat community. In revision.
  58. Brandell EE, **Becker DJ**, Sampson LM, Forbes KM. The rise of disease ecology. In review.
  59. Dallas TA, **Becker DJ**. Taxonomic resolution affects host–parasite model performance. In review.

60. Plowright RK\*, Reaser JK\*, Locke H, Woodley S, Patz J, **Becker DJ**, Oppler G, Hudson PJ, Tabor GM. A call to action: understanding land use-induced zoonotic spillover to protect environmental, animal, and human health. In review.
61. **Becker DJ\***, Albery GF\*, Sjodin AR, Poisot T, Dallas TA, Farrell MJ, Guth S, Han BA, Simmons NB, Stock M, Teeling EC, Carlson CJ. Predicting wildlife hosts of betacoronaviruses for SARS-CoV-2 sampling prioritization. In review.
62. Cornelius-Ruhs E\*, **Becker DJ\***, Oakey S, Droke HF, Ogunsina O, Fenton MB, Simmons NB, Martin LB, Downs CJ. Body size shapes immune cell proportions in birds and terrestrial mammals but not bats. In review.
63. Bergner LM, Orton RJ, Broos A, Tello C, **Becker DJ**, Carrera JE, Patel AH, Biek R, Streicker DG. Diversification of mammalian deltaviruses by host shifting. In review.
64. Bergner LM, **Becker DJ**, Tello C, Carrera JE, Streicker DG. Detection of *Trypanosoma cruzi* in the saliva of diverse Neotropical bats. In review.
65. Albery GF, Sweeny AR, **Becker DJ**, Bansal S. Fine-scale spatial patterns of wildlife disease are common and understudied. In review.
66. Sandoval-Herrera NI, Mastromonaco GF, **Becker DJ**, Simmons NB, Welch KC. Inter- and intra-specific variation in hair cortisol levels of Neotropical bats. In review.
67. Milán J, Di Cataldo S, Volokhov DV, **Becker DJ**. Worldwide occurrence of hemoplasmas in wildlife: insights into patterns of infection, transmission, pathology, and zoonotic potential. In review.
68. Neely BA, Bland AM, Janech MG, **Becker DJ**. Surveying the vampire bat (*Desmodus rotundus*) serum proteome: a resource for identifying immunological proteins and detecting pathogens. In review.
69. Albery GA, **Becker DJ**, Brook CE, Dallas TA, Farrell MJ, Glennon EE, Guth S, Joseph MB, Mollentze N, Poisot T, Seifert SN, Sorrell EM, Sjodin AR, Carlson CJ. Modeling cross-species viral transmission and predicting zoonotic potential. In review.
70. Scheben A, Mendivil Ramos O, Kramer M, Goodwin S, Oppenheim S, **Becker DJ**, Schatz MC, Simmons NB, Siepel A, McCombie WR. Unraveling molecular mechanisms of immunity and cancer-resistance using the genomes of the Neotropical bats *Artibeus jamaicensis* and *Pteronotus mesoamericanus*. In review.
71. Reaser JK, Hunt B, Ruiz-Aravena M, Tabor GM, Patz JA, **Becker DJ**, Locke H, Hudson PJ, Plowright RK. Reducing land use induced-spillover risk by fostering landscape immunity: policy priorities for conservation practitioners. In review.
72. Tabor GM, Reaser JK, **Becker DJ**, Hickey V, Locke H, Muruthi P, Patz JA, Vanak AT, Woodley SJ, Plowright RK. Landscape immunity: a primer with priority actions and case studies for protected and conservation area managers. In review.
73. Mull N, Carlson CJ, Forbes KM, **Becker DJ**. Competence improves predictions of undetected rodent reservoirs for American orthohantaviruses. In review.

<b>INVITED TALKS &amp; SEMINARS</b>	Department of Biology, New Mexico State University	2021
	Department of Biological Sciences, Wright State University	2021
	Department of Biology, Appalachian State University	2020
	Department of Ecology & Evolutionary Biology, University of Arizona	2020
	Department of Biology, University of Oklahoma	2020
	Department of Biology, Indiana State University	2019
	Department of Veterinary Preventive Medicine, The Ohio State University	2019
	Department of Epidemiology, Indiana University	2019
	Society for Integrative and Comparative Biology, Tampa, FL	2019
	Ecological Society of America, New Orleans, LA	2018
	Disease Dynamics Unit, Cambridge University	2018
	International Urban Wildlife Conference, San Diego, CA	2017
	Institute of BAHCM, University of Glasgow	2017
	Georgia Bat Working Group Meeting, Athens, GA	2016
	Center for the Ecology of Infectious Disease, University of Georgia	2016
	International Association of Landscape Ecology, Portland, OR	2015
<b>CONFERENCE TALKS &amp; POSTERS</b>	Intelligence Community Academic Research Symposium, <i>virtual</i>	2020
	Society for Integrative and Comparative Biology, Austin, TX	2020
	Intelligence Community Academic Research Symposium, Washington DC	2019
	Ecological Society of America, Louisville, KY	2019
	Ecology and Evolution of Infectious Diseases, Princeton, NJ	2019
	Ecological Society of America, New Orleans, LA	2018
	Ecology and Evolution of Infectious Diseases, Glasgow, UK	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	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	2015
	Society for Integrative and Comparative Biology, West Palm Beach, FL	2015
Ecology and Evolution of Infectious Diseases, State College, PA	2013	
<b>STUDENT MENTORING</b>	Matthias Benko (UG, IU); avian disease ecology	2019–2020
	Qiuyun Pan (UG, IU); avian disease ecology	2019–2020
	Katie Talbott (PhD, IU); avian disease ecology	2018–2020
	Cierra McKoy (REU, University of Maryland); avian disease ecology	2019
	German Botto (PhD, MSU); bat disease ecology	2018
	Ticha Padgett (UG, MSU); bat pathogen detection	2018
	Jorge Carrera (UG, Universidad Nacional de Piura); bat ecology	2013–2016
	Katie Smith (DVM, UGA); bat immunology & data analysis	2016
	Celine Snedden (REU, UC Berkeley); infectious disease modeling	2016
	Andre Jove (UG, UGA); bat hematology & pathogen detection	2016
	Ceci Nachtmann (UG, UGA); bat hematology & pathogen detection	2016
	Ruth Schade (UG, UGA); bat hematology	2015
Katherine Gilman (PB, BU); bat field methods	2014	
Malavika Rajeev (PB, UGA); bat field methods	2013	
<b>COURSES DESIGNED</b>	<b>Becker DJ &amp; Bentz AB.</b> Applied data analysis in R. Department of Biology (Evolution, Ecology, and Behavior), Indiana University, Bloomington, IN, 2019.	

**GUEST  
LECTURES**

**Becker DJ.** Environmental change, loss of migration, and infectious disease. FNR 2400 Wildlife in America. Purdue University, West Lafayette, IN, 2019.

**Becker DJ.** Meta-analysis in ecology, evolution, and behavior. ABEH 501 Techniques in Reproductive Diversity. Indiana University, Bloomington, IN, 2019.

**Becker DJ.** Bat rabies in North America. FNR 2400 Wildlife in America. Purdue University, West Lafayette, IN, 2018.

**Becker DJ.** Introduction to linear mixed models, AIC, and implementation in R. Department of Biology, Appalachian State University, Boone, NC, 2017.

**Becker DJ.** Vampire bat immunity and infection in a changing world. MB 560 Infectious Disease Ecology, Montana State University, Bozeman, MT, 2017.

**Becker DJ.** Ecological approaches to zoonoses in changing landscapes. BIOL 1990 Orientation to Biology Programs, University of Georgia, Athens, GA, 2016.

**Becker DJ.** Conducting hierarchical meta-analysis in ecology and evolutionary biology. Odum School of Ecology, 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.** The analysis of infectious disease data using R. Instituto Nacional de Salud, Lima, Peru, 2015.

**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.

**SCIENTIFIC  
LEADERSHIP**

<i>Phil Trans R Soc B</i> Theme Issue Organizer ( <a href="#">issue link</a> )	2017–2019
Symposium Organizer ( <a href="#">SYMP 2</a> ), SICB 2019 Annual Meeting	2017–2019
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 ( <a href="#">issue link</a> )	2016–2017
Symposium Organizer ( <a href="#">SYMP 8</a> ), 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**

Academic Editor, <i>PLoS ONE</i>	2018–present
Guest Editor, <i>Philosophical Transactions of the Royal Society B</i>	2017–2019
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

**GRANT** National Science Foundation  
**REVIEWER** Bat Conservation International Student Scholarship Program  
Indiana University Grand Challenges: Prepared for Environmental Change  
Animal Behavior Society Student Research Grants

**AD HOC** *Acta Chiropterologica; Applied and Environmental Microbiology; Archives of*  
**REVIEWER** *Environmental Contamination and Toxicology; Biology Letters; Biology Open;*  
*Biological Reviews; BMC Ecology; Conservation Letters; EcoHealth; Ecology &*  
[Publons page](#) *Evolution; Ecology Letters; Ecosphere; Environmental Earth Sciences;*  
*Environmental Pollution; Epidemiology & Infection; Evolution; Evolution Letters;*  
*Evolutionary Applications; Frontiers in Immunology; Functional Ecology; Global*  
*Ecology and Biogeography; Infection, Genetics & Evolution; Integrative & Comparative*  
*Biology; Journal of Animal Ecology; Journal of Animal Ecology; Journal of Applied*  
*Ecology; Journal of Mammalogy; Journal of Urban Ecology; Mammal Review;*  
*Mammalian Biology; Molecular Ecology; Nature Communications; Oikos; PeerJ;*  
*Philosophical Transactions of the Royal Society B; PLoS Biology; PLoS Neglected*  
*Tropical Diseases; PLoS ONE; PLoS Pathogens; Proceedings of the Royal Society B;*  
*Royal Society Open Science; Science of the Total Environment; Scientific Reports;*  
*Transboundary and Emerging Diseases; Zoological Science; Zoonoses & Public Health*

**SCIENTIFIC** Guest Presenter, Oconee Rivers Audubon Society, Athens, GA 2017  
**OUTREACH** 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

**PAST** Field Technician, University of Wisconsin, Boulder Creek, CA 2012  
**RESEARCH** Research Assistant, Department of Parks & Recreation, Queens, NY 2010–2012  
**POSITIONS** 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

**SOCIETY** Ecological Society of America  
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