

DANIEL J. BECKER

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EDUCATION	Odum School of Ecology, University of Georgia, Athens, GA PhD in Ecology (Drs. Sonia Altizer & Daniel Streicker)	08/2012–present 3.93/4.0 GPA
	Bard College, Annandale-on-Hudson, NY BA in Anthropology, Global Health, Science & Society	05/2010 3.83/4.0 GPA
TRAINING	Ecoimmunology Exchange, Bucknell University	2015
	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
	Ecoimmunology Exchange, Leibniz Institute for Zoo & Wildlife Research	2013
	Fundamentals of Ecosystem Ecology, Cary Institute of Ecosystem Studies	2009
RESEARCH INTERESTS	Epidemiology, zoonotic pathogens of bats, linking host resources to infectious disease, metapopulation theory, ecoimmunology, wildlife conservation, meta-analysis methods	
AWARDS & FELLOWSHIPS	ARCS Foundation Atlanta 25th Anniversary Award	2016
	ARCS Foundation Award, ARCS Foundation	2014–2017
	Graduate Research Fellowship, National Science Foundation	2014–2017
	Award for Excellence in Wildlife Conservation, University of Georgia	2016
	Best Basic/Theoretical Student Paper, Odum School of Ecology	2015, 2016
	Honorable Mention Lotka Prize, Ecological Society of America	2015
	Graduate Research Assistantship, University of Georgia	2012–2014
	Franz Boas & Ruth Benedict Prize in Anthropology, Bard College	2010
GRANT SUPPORT	Doctoral Dissertation Improvement Grant, National Science Foundation	2016
	Ecoimmunology Exchange Award, National Science Foundation	2013, 2015
	Small Grant for Graduate Research, Odum School of Ecology	2013–2016
	Grant-in-Aid of Research, American Society of Mammalogists	2013, 2016
	Innovative and Interdisciplinary Research Grant, University of Georgia	2015
	Exploration Fund Grant, Explorer's Club	2014, 2015
	Grant-in-Aid of Research, Sigma Xi	2014, 2015
	One Health Seed Grant, University of Georgia	2013
	Student Research Grant, Animal Behavior Society	2013
	Student Research Scholarship, Bat Conservation International	2013
	Tinker Graduate Field Research Award, University of Georgia	2013
RESEARCH ARTICLES	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. <i>Royal Society Open Science</i> 3, 160499.	
	Murray MA, Becker DJ , Hall RJ, Hernandez SM (2016). Wildlife health and supplemental feeding: a review and management recommendations. <i>Biological Conservation</i> .	
	Becker DJ & Hall RJ (2016). Heterogeneity in patch quality buffers metapopulations from pathogen impacts. <i>Theoretical Ecology</i> 9, 197-205.	

Becker DJ, Oloya J, Ezeamama AE (2015). Household socioeconomic & demographic correlates of *Cryptosporidium* seropositivity in the US. *PLoS NTDs* 9, e0004080.

Becker DJ, Streicker DG, Altizer S (2015). Linking anthropogenic resources to wildlife–pathogen dynamics: a review & meta-analysis. *Ecology Letters* 18, 483-495.

Becker DJ & Hall RJ (2014). Too much of a good thing: resource provisioning alters infectious disease dynamics in wildlife. *Biology Letters* 10, 20140309.

McCortor A & **Becker DJ** (2010). World's Worst Pollution Problems Report 2010: Top Six Toxic Threats. New York: Blacksmith Institute.

PAPERS IN ADVANCED STAGES

Becker DJ, Streicker DG, Altizer S. Host movement ecology and feeding behavior influence how resource provisioning affects infection risk for wildlife. In review at *Journal of Animal Ecology*.

Becker DJ, Chunchal MM, Bentz AB, Navara KJ, Platt SG, Czirjak GA, Rainwater TR, Altizer S, Streicker DG. Predictors and immunological consequences of sublethal mercury exposure in vampire bats. Submitted to *Royal Society Open Science*.

Zepeda-Mendoza ML, Ramos-Madrigal J, Escalera-Zamudio M, Thz J, Pacheco G, Holm JB, Xia Z, Liang X, Runge AK, Rojas-Anaya E, Loza-Rubio E, Ortiz CFA, Greenwood AD, Pybus OG, **Becker DJ**, Streicker DG, Kristiansen K, Gilbert TP. Numt-aware population genomic analysis of the common vampire bat. In preparation for *Molecular Ecology*.

Becker DJ, Nachtmann C, de Thoisy B, Altizer S, Streicker DG. White blood cell profiles vary with distance from geographic range center in a widespread reservoir bat species. In preparation for *Ecography*.

Becker DJ, Snedden C, Altizer S, Hall RJ. Supplemental resources, colonization heterogeneity, and pathogen spread in wildlife metapopulations. In preparation for *Proceedings of the Royal Society B: Biological Sciences*.

Volokhov D, **Becker DJ**, Chizhikov VE, Altizer S, Streicker DG. Detection and phylogenetic associations of novel hemotrophic *Mycoplasma* genotypes in vampire bats (*Desmodus rotundus*). In preparation for *Applied and Environmental Microbiology*.

SELECT ABSTRACTS

Becker DJ, Streicker DG, Altizer S. Host movement ecology and feeding behavior influence how resource provisioning affects parasitism for wildlife. SICB Annual Meeting, New Orleans, LA, 2017.

Becker DJ, Hall RJ, Bentz AB, Czirjak GA, Recuenco SE, Altizer S, Streicker DG. Resource provisioning impairs immune performance and promotes rabies transmission in vampire bats. ESA Annual Meeting, Ft. Lauderdale, FL, 2016.

Becker DJ, Hall RJ, Bentz AB, Czirjak GA, Recuenco SE, Altizer S, Streicker DG. Resource provisioning impairs immune performance and promotes rabies transmission in vampire bats. EEID Annual Conference, Ithaca, NY, 2016. Poster.

Becker DJ, Altizer S, Bentz AB, Czirjak GA, Streicker DG. Livestock-dense habitat functions as an ecological trap for vampire bats: immunological evidence. SICB Annual Meeting, Portland, OR, 2016.

Becker DJ, Hall RJ. Heterogeneity in patch quality buffers metapopulations from pathogen impacts. ESA Annual Meeting, Baltimore, MD, 2015.

Becker DJ, Hall RJ. Heterogeneity in patch quality buffers metapopulations from pathogen impacts. EEID Annual Conference, Athens, GA, 2015. Poster.

Becker DJ, Hall RJ. Too much of a good thing: supplemental feeding alters infectious disease dynamics in urban-foraging wildlife. SICB Annual Meeting, WPB, FL, 2015.

Becker DJ, Streicker DG, Altizer S. Linking novel resources to infectious disease dynamics in wildlife. EEID Annual Conference, State College, PA, 2013. Poster.

INVITED TALKS

Becker DJ, Czirjak GA, Altizer S, Streicker DG. Livestock expansion in Latin America: effects on immune defense and bacterial infection in vampire bats. Annual Georgia Bat Working Group Meeting, Athens, GA, 2016.

Becker DJ. Linking resource heterogeneity to host immunity and between-patch movement in vampire bats, with consequences for rabies virus dynamics. Center for the Ecology of Infectious Disease, Athens, GA, 2016.

Becker DJ. The analysis of infectious disease data using R (in Spanish). Instituto Nacional de Salud, Lima, Peru, 2015.

Becker DJ, Hall RJ, Streicker DG, Altizer S. Impact of human-provided food resources on infectious disease dynamics. International Association of Landscape Ecology World Congress, Portland, OR, 2015.

Becker DJ. From clinic to support group: medical expertise and Lyme disease. Senior Project Research Panel, Bard College, Annandale-on-Hudson, NY, 2010.

GUEST LECTURES

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

Becker DJ. Supplemental feeding, changes to habitat quality, 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.

WORKING GROUPS

Center for the Ecology of Infectious Disease, University of Georgia	2016–present
Infectious Disease Epidemiology, University of Georgia	2015–present
Computational Ecology & Epidemiology, University of Georgia	2014–2016
Lymphoid Cells in Acute Inflammation, NIMBioS	2015

ACADEMIC POSITIONS

Guest Researcher, Rabies Branch, CDC, Atlanta, GA	2013–2014
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

EDITORIAL & OUTREACH Student Editorial Assistant, *EcoHealth*, New York, NY 2012–present
British Ornithologists' Union Biotweeps Participant 2016
Volunteer Judge, Georgia Science and Engineering Fair, Athens, GA 2015
Editorial Intern, *The Georgia Review*, Athens, GA 2014
Editorial Administrator, *Annals of the NYAS*, New York, NY 2010–2012
Technical Assistant, Center for Health, Environment & Justice, Falls Church, VA 2009

REVIEWER *EcoHealth* (4), *Evolution* (1), *Functional Ecology* (1), *PLoS ONE* (2), *Oikos* (2)
Animal Behavior Society Student Research Grants (2015)

PROFESSIONAL SERVICE Advisory Board, Center for the Ecology of Infectious Disease, UGA 2016–present
Student Liaison, Disease Ecology Section, Ecological Society of America 2016–2017
Representative, Division of Ecoimmunology & Disease Ecology, SICB 2015–2018
Webmaster, Women in Science University of Georgia 2015–2017
Principal Organizer for Symposium, ESA Annual Meeting 2015–2016

DEPARTMENT SERVICE Grant Database Coordinator, Odum School of Ecology 2015–2016
Treasurer, Odum School of Ecology 2013–2014, 2015–2016
Undergraduate Poster Committee, Odum School of Ecology 2012–2013
Geography Search Committee, Bard College 2009

STUDENT MENTORING 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

SOCIETY AFFILIATIONS American Society of Mammalogists
Animal Behavior Society
Ecological Society of America
Research Coordination Network in Ecoimmunology
Sigma Xi: The Scientific Research Society
Society for Integrative & Comparative Biology

REFERENCES Sonia Altizer, Professor
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Daniel Streicker, Research Fellow
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