Curriculum Vitae

Elizabeth Frances Daut

National Socio-Environmental Synthesis Center • 1 Park Place • Suite 300 • Annapolis, MD 21401
edaut@sesync.org • 410-919-4823 (office) • 201-892-7207 (cell)

RESEARCH INTERESTS: Social and ecological drivers and consequences of wildlife use; sustainable development and livelihoods; local to global biodiversity conservation and management policy particularly in developing countries; interdisciplinary one-health and conservation medicine

EDUCATION

2010-2015 **Ph.D.** Veterinary Pathobiology, Texas A&M University
Certificate NSF-IGERT Applied Biodiversity Science Program, Texas A&M University
Dissertation: *Conservation implications of illegal bird trade and disease risk in Peru*

1992-1996 **D.V.M.** Cornell University

1987-1991 **B.S. Biology**, Virginia Tech (Cum Laude)

ACADEMIC APPOINTMENTS

2015-2017 **Postdoctoral Fellow**, NSF National Socio-Environmental Synthesis Center (SESYNC) University of Maryland (Advisor: Karen Lips)
Research focus: Conservation and disease threats associated with legal and illegal exotic and wild animal import trade
*Fellowship includes interdisciplinary synthesis-research training in socio-environmental systems

2008-2010 **Wildlife Medicine & Conservation Fellow**, Wildlife Center of Virginia (Teaching Hospital)

PEER-REVIEWED PUBLICATIONS

2017 Daut, E.F., Marchand, P. & Lips, K. (in-prep). Infectious pathogen risk stemming from U.S. exotic animal imports and exporting countries. Target journal: Frontiers in Ecology and the Environment

2016 Wallen, K.E. & Daut, E.F. (in-review) Exploring social influence and social marketing to reduce consumer demand for illegal wildlife. Asian Journal of Conservation Biology

2016 Daut, E.F., Peterson, M.J., Lahodny, G. & Ivanek-Miojevic, R. Interacting effects of Newcastle disease transmission and illegal trade on a wild population of white-winged parakeets in Peru: a modeling approach. *PLOS One*. 10.1371/journal.pone.0147517

2015 Daut, E.F., Brightsmith, D.J., Mendoza, P.A, Puhakka, L. & Peterson, M.J. Illegal domestic bird trade and the role of export quotas in Peru. *Journal for Nature Conservation*, 27:44-53

2015 Daut, E.F., Brightsmith, D.J. & Peterson, M.J. Role of non-governmental organizations in combating illegal wildlife-pet trade in Peru. *Journal for Nature Conservation*, 24:72-82

2012 Daut, E.F. The importance of epidemiology and R_0 in wildlife rehabilitation. *NWRA's Wildlife Rehabilitation Bulletin*, 30(2)1-4

1993 Daut, E.F. & Andrews, R.M. The effect of pregnancy on thermoregulatory behavior of the viviparous lizard *Chalcides ocellatus*. *Journal of Herpetology*, 27(1)6-13

NON-PEER REVIEWED PUBLICATIONS & REPORTS

2013 Daut, E.F., Dennis, K., Gómez-Ruiz, E.P., Hurst, Z., Roach, K.A., Santos, A.N., Toledo, D., Treglia, M.L., van Riper, C.J. & Wood, M.A. Reaching toward outward accountability of environmental non-governmental organizations. *Applied Biodiversity Science Perspective Series*, 3(2)1-15

2009 Daut, E.F. Rehabilitation and medicine of insectivorous bats. *NWRA's Wildlife Medicine Course Guide*

2005 Daut, E.F., Ozdonmez, L., Peach, J. & Alvarez, B. La jaula del oro - el tráfico ilegal de animales silvestres en Ecuador. Documentary. Loja, Ecuador

2004 Daut, E.F. & Thomas, S. Evaluación sobre el uso de vacunas en animales domésticos en las Islas Galápagos. WildAid, Puerto Ayora, Ecuador

2003 Daut, E.F. Guía para enseñar sobre aves y educación no-formal. Fundación de Protección Animal, Loja, Ecuador

RESEARCH EXPERIENCE

2010-2015 **Graduate Student**, Veterinary Pathobiology and Applied Biodiversity Science Texas A&M University
Chair: Donald J. Brightsmith (Schubot Exotic Bird Health Center)
Co-chair: Markus J. Peterson (Wildlife and Fisheries Sciences)
- Field research in Peru (14 months)
- Qualitative and quantitative research training

5/94-8/94 **Research Associate**, National Museums of Kenya
Advisor: Julie Langenberg (International Crane Foundation)
- Epidemiological survey for viral diseases and parasitological survey in free-ranging grey crowned cranes in Kenya and four species of captive cranes in South Africa

5/93-8/93 **Field Research Assistant**, Cornell University
Advisors: David Winkler (Ecology & Systematics), Dwight Bowman (Parasitology)
- Monitored physiological and reproductive behavior of breeding tree swallows
- Conducted survey and historical review of tree swallow parasites

1989-1991 **Research Assistant**, Virginia Tech
Advisor: Robin Andrews (Biology)
- Research assistant and biology honors thesis investigating lizard reproductive thermal behavior

PROFESSIONAL EXPERIENCE

1/14-8/14 **Program Coordinator**, NSF-IGERT Applied Biodiversity Science, Texas A&M University, College Station, TX

2006-2008 **Associate Veterinarian**, Green Mountain Veterinary Hospital, Manchester, VT

2007-2008 **Wildlife Veterinarian** (biweekly volunteer), Vermont Institute of Natural Science**,** Quechee, VT

2001-2006 **President**, *Fundación de Protección Animal*, Loja, Ecuador

- Organized public education campaigns such as an Animals and Kids Club, a public environmental library and extensive media outreach
- Produced and co-hosted a live weekly television program called *Visión Animal*
- Wildlife inspector for Ecuadorian environmental ministry; established triage center for confiscated wildlife; developed integrated strategy to combat illegal wildlife trade
- Consultant for a local zoological park

1997-2001 **Peace Corps Volunteer**, Loja, Ecuador

- Co-founded the first animal-welfare organization (*Fundación de Protección Animal*) in southern Ecuador
- Established low-cost small animal clinic
- Developed animal-welfare and conservation legislation

1996-1997 **Associate Veterinarian**, Avian Medical Center, Lake Oswego, OR

1992-1995 **Wildlife Clinic Supervisor**, Cornell University, Ithaca, NY

5/92-8/92 **Whooping Crane Caretaker**, Patuxent Wildlife Research Center**,** Laurel, MD

TEACHING & MENTORING EXPERIENCE

6/16-8/16 **Mentor**, SESYNC Internship Program for Undergraduates, Annapolis, MD

- Supervised an undergraduate environmental-policy student on a project evaluating global illegal wildlife trade and national-level mitigation policies

1/16-5/16 **Co-Mentor**, Problem Solving Course, Sustainable Development and Conservation Biology master's program, University of Maryland, College Park, MD

- Advised students on a project evaluating animal imports for the pet industry

9/14-12/14 **Teaching Assistant,** One Health View of Antimicrobial Resistance, Texas A&M University, College Station, TX

- Organized reading materials and helped lead weekly discussions

Jan. 2013 **Lecturer**, *Manejo y Conservación de Fauna Silvestre*, Puerto Maldonado, Peru

- Lectures: wildlife rehabilitation, wildlife trade, and basic avian biology
- Wetlabs: avian restraint and physical exam

5/12-11/12 **Mentor**, NSF-REU Undergraduate Research in the Mathematical Sciences and Their Applications Program, Texas A&M University, College Station, TX

- Mentored an undergraduate student on a project evaluating disease risk and animal trade

Oct. 2012 **Course Leader,** *Técnicas Básicas en Medicina Aviar,* Lima, Peru

- Lectures: avian restraint, physical exam, and triage & stabilization
- Wetlabs: basic bandaging and common clinical techniques

2008-2010 **Fellow**, Wildlife Center of Virginia, Waynesboro, VA
- Clinical supervisor for ~35 rotating 3rd and 4th year veterinary externs yearly
- Weekly lectures concerning diverse wildlife medicine and conservation topics
- Guest lecturer: Wildlife Medicine elective, Virginia Tech
- Course leader: NWRA Wildlife Medicine Course, Michigan State University

1998-2006 **President**, *Fundación de Protección Animal*, Loja, Ecuador
- Wildlife trade and conservation courses for university students and law enforcement
- Surgical sterilization training workshops for veterinarians and vet students in Loja and on the Galapagos Islands
- Basic avian biology and conservation courses for elementary-school science teachers and students

1997-1999 **Assistant Professor** (Peace Corps Volunteer), Universidad Nacional de Loja, Facultad de Ciencias Veterinarias, Loja, Ecuador
- Courses for 3rd and 4th year veterinary students: parasitology, clinical pathology, small-animal sterilization, pet avian medicine

CONFERENCE PRESENTATIONS

2016 Daut, E.F., Marchand, P. & Lips, K. Infectious pathogen risk stemming from U.S. exotic animal imports and exporting countries. 65th Annual International Conference of the Wildlife Disease Association, Ithaca, NY. (oral presentation)

2016 Daut, E.F., Brightsmith, D.J., Mendoza, P.A, Puhakka, L. & Peterson, M.J. Illegal domestic bird trade and the role of export quotas in Peru. North America Congress for Conservation Biology, Madison, WI. (oral presentation)

2014 Daut, E.F., Brightsmith, D.J. & Peterson, M.J. *Role of non-governmental organizations in combating illegal wildlife-pet trade in Peru.* North America Congress for Conservation Biology, Missoula, MT. (oral presentation)

2014 Daut, E.F., Brightsmith, D.J., Mendoza, P.A, Puhakka, L. & Peterson, M.J. *Legal and illegal trade: the case of export quotas and pet birds in Peru.* 15th Ecological Integration Symposium, Texas A&M University, College Station, TX. (2nd place student competition; oral presentation)

2013 Daut, E.F., Brightsmith, D.J. & Peterson, M.J. *The role of environmental and animal-welfare non-governmental organizations in combating illegal wildlife trade in Peru.* 50th Anniversary Meeting – Association for Tropical Biology and Conservation and Organization for Tropical Studies, San Jose, Costa Rica. (oral presentation)

2012 Daut, E.F. *Who's buying the world's most endangered wildlife?* 13th Ecological Integration Symposium, Texas A&M University, College Station, TX. (oral presentation)

2009 Daut, E.F. *Vet wars – to release or not to release*. Call of the Wild Conference, Wildlife Center of Virginia, Waynesboro, VA. (oral presentation)

2008 Daut, E.F. *Emerging infectious diseases in Virginia's wildlife*. Annual Conference of the Virginia Federation of Humane Societies, Richmond, VA. (oral presentation)

2008 Daut, E.F. *Wildlife bandaging techniques*. Call of the Wild Conference, Wildlife Center of Virginia, Waynesboro, VA. (oral presentation)

2004 Daut, E.F. *Problemas que afectan la fauna silvestre del Ecuador*. Wildlife and Legislation Seminar, Loja, Ecuador. (Seminar Organizer; oral presentation)

1999 Daut, E.F. *La rehabilitación de vida silvestre en Ecuador y la utilización de los voluntarios del Cuerpo de Paz*. Neotropical Wildlife Rehabilitation Symposia, Humane Society International, San Jose, Costa Rica. (oral presentation)

OTHER INVITED PRESENTATIONS

2016 *Dynamics and consequences of ornamental fish trade*. Aquatic Nuisance Species Task Force Meeting, U.S. Fish and Wildlife Service, Falls Church, VA

2016 *Wild and exotic animal trade and infectious diseases*. DC Science Café, DC Science Writers Association, Washington, DC

2016 *Illegal bird trade in Peru.* Annapolis Café Scientifique, Annapolis, MD

2016 *Mixed-methods approach to wildlife trade research*. Socio-Environmental Synthesis and Sustainability Research course, University of Maryland

2015 *Wildlife trade and infectious diseases.* Biodiversity, Global Environmental Change and Effects on Human Health course, University of Maryland

2014 *Wildlife trade and conservation medicine*. Applied Conservation Medicine course, Texas A&M University

2013 *Bird trade in Peru*. Society for Conservation Biology, Texas A&M University Student Chapter

2012 *On-line applied biodiversity HUB workshop*. Applied Biodiversity Science, Texas A&M University

2012 *On-line applied biodiversity HUB.* Bare Bones Biology – public radio program, College Station, TX

2011 *Pet parrots in Peru*. Rio Brazos Audubon Society, Bryan, TX

2011 *Triage de fauna silvestre y estabilización de emergencia*. Universidad de San Marcos, Lima, Peru

2010 *Wildlife trade*. Applied Conservation Medicine course, Texas A&M University

2010 *Wildlife trade and infectious diseases*. The Student Chapter of the Wildlife Disease Association, Texas A&M University

2010 *Rationalizing euthanasia in difficult trauma cases*. Wildlife Rehabilitation Training Class, Lynchburg Parks & Recreation

2009 *Fluid therapy for wildlife*. Wildlife Rehabilitation Training Class, Wildlife Rescue League

GRANTS (support for NGO work in Ecuador)

2004 U.S. Fish and Wildlife Service, Division of Bird Habitat Conservation $5,060

2003 Marchig Animal Welfare Trust $5,380

2002 ASPCA $5,000

2000 William & Charlotte Parks Foundation $10,000

2000 RSPCA $1,044

1999 Peace Corps Partnership Program $11,300

1999 Heifer Project International $5,018

AWARDS & HONORS

2016	Postdoctoral Fellowship, Atkinson Center for a Sustainable Future, Cornell University; fellowship was offered but not accepted
2016	Postdoctoral Fellowship Finalist, Smith Fellowship in Conservation Research; withdrew from further consideration
2015-2017	Postdoctoral Fellowship, NSF National Socio-Environmental Synthesis Center Synthesis Center (SESYNC), University of Maryland ($153,800)
2015	Presidential Management Fellows (PMF-STEM) Finalist, Office of Personnel Management, U.S. government
2014	Office of Graduate Studies Presentation Award, Texas A&M University ($350)
2014	Philanthropic Educational Organization Scholar Award ($15,000)
2013-2014	Graduate Fellowship, Schubot Exotic Bird Health Center, Veterinary Pathobiology, Texas A&M University ($60,000)
2012	Self-Directed Study Scholarship, International Programs Advisory Committee, College of Veterinary Medicine, Texas A&M University ($1,200)
2010	Lechner Scholar Award, College of Veterinary Medicine, Texas A&M University ($8,000)
2010-2012	NSF-IGERT Fellowship, Applied Biodiversity Science, Texas A&M University ($60,000)
1996	Wild Bird Research and Rehabilitation Award, Cornell University
1994	International Summer Research Award, Cornell University ($1,500)
1991	Biology Undergraduate Research Award, Virginia Tech

PROFESSIONAL AFFILIATIONS & ACTIVITIES

Memberships:	Wildlife Disease Association, Society for Conservation Biology, Association of Avian Veterinarians
Collaborative Research:	NSF Research Coordination Network. Macroecology of Infectious Disease; PIs: Patrick Stephens, Alonso Aguirre, Sonia Altizer, Robert Poulin (2016-2017)
Journal Reviews:	Conservation Biology, Biological Conservation, Plos One, Biodiversity and Conservation, Journal for Nature Conservation
Training Courses:	Amazon field school, NSF-IGERT Applied Biodiversity Science Program, Tambopata, Peru (May 2011); grant writing, College Station, TX (July 2012); media training, College Station, TX (April 2014); teaching assistant certificate, Center for Teaching Excellence, College Station, TX (2014-2015)

ACADEMIC & COMMUNITY SERVICE

2016 & 2017	Review panel for postdoctoral fellowship applicants, SESYNC, Annapolis, MD
2014-2015	Mammal Team, BioBlitz Rapid Ecological Survey, College Station, TX

2011-2013 Vision Committee, NSF-IGERT Applied Biodiversity Science Program, Texas A&M University, College Station, TX

OTHER QUALIFICATIONS & INTERESTS

- Spanish (advanced spoken, written, and reading)
- Certified Kripalu yoga teacher
- Enjoy swimming, biking, hiking, and gardening