

Katherine M. Talbott Curriculum Vitae

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EDUCATION

INDIANA UNIVERSITY – Bloomington, IN – PhD in Ecology, Evolution, and Behavior (anticipated spring 2023) Advisor: Dr. Ellen Ketterson

FORT HAYS STATE UNIVERSITY (GPA: 3.8) – Hays, KS – Master of Science in Biology, May 2012
M. S. Thesis: Sexual selection dynamics in a Smoky Hills population of eastern collared lizards (*Crotaphytus collaris*). Available at: <http://goo.gl/St6zx2>. Advisor: Dr. Greg Farley

DOANE COLLEGE (GPA: 3.7) – Crete, NE - Bachelor of Science, Biology and English, May 2009
B. S. Thesis: Population genetics of the sidewalk tiger beetle (*Cicindela punctulata*). Advisors: Dr. Heather York and Dr. Kate Marley

PROFESSIONAL EXPERIENCE

Education Program Associate II (Oct. '16 – June '17) University of Minnesota, St. Paul, MN

- Maintained collection of live teaching animals for CBS Instructional Labs
- Coordinated teaching materials for Zoology and Ecology labs
- Assisted Ecology and Marine Animal Diversity students with research projects

College Laboratory Assistant II (Aug '14 – Oct '16) Inver Hills Community College, MN

- Prepared supplies, equipment, and apparatus for laboratory classes
- Assisted honors students working on research projects
- Maintained microbiology resources (i.e., agar and broths, bacteria cultures, fungi cultures, etc.)
- Cared for laboratory animals and protists (i.e., fruit flies, turtles, guppies, paramecium, etc.)
- Ordered laboratory supplies, maintained departmental budget, and maintained equipment inventory
- Delivered lab lectures, supervised lab activities, and proctored exams for instructors as needed
- Assisted instructors in developing new laboratory activities
- Assisted faculty in preparing for outreach projects (i.e., Summer Ag Academy, July 2015 & 2016)

BioDiscovery Project Coordinator (Apr '13 – Aug '14) Minnesota Zoo

- Developed wildlife research and education goals for the project
- Planned and executed wildlife surveys (reptiles, amphibians, small mammals, birds, odonates, and lepidopterans) on Zoo site
- Developed and conducted wildlife education programs for various groups
- Coordinated volunteers, interns, and Zoo staff assisting with fieldwork
- Developed a project budget, and purchased and maintained project equipment
- Developed and maintained social media presence for the project (Facebook), and developed a webpage for the BioDiscovery Project on the Zoo's main website

PROFESSIONAL EXPERIENCE, CON'T.

Texas Horned Lizard Research Technician (Seasonal contract, June – Nov 2012)

Southern Illinois University's Cooperative Wildlife Research Laboratory

- Tracked Texas horned lizards at Tinker Air Force Base (Oklahoma City) through radiotelemetry and visual surveys; collected morphological, reproductive status, and GIS data
- Assisted Tinker Natural Resources personnel with wildlife surveys
- Assisted in developing a harmonic radar application for tracking hatchling lizards
- Wrote reports and research proposals

Graduate Wetlands Assistant (May '11 – June '12) Kansas Wetlands Education Center

- Provided wildlife and conservation themed programming for school groups (K – 12 and community college) and special events
- Guided wildlife tours of Cheyenne Bottoms Wetlands area
- Assisted with water quality monitoring (sampling water chemistry and aquatic bioindicators)
- Cared for collection of live teaching animals

Graduate Teaching Assistant (Aug '10 – May '11) Fort Hays State University

- Taught Zoology lab, including microscope study and dissections of representatives of the major classes within Chordata
- Instructed Introduction to Biology labs, focusing on microscopy techniques, the scientific method, scientific writing, and basic biological principles

Graduate Curatorial Assistant (Aug '09 – Aug '10) Sternberg Museum of Natural History

- Taught Mammalogy lab, which included demonstrating mammal trapping and museum specimen techniques, and helping students memorize taxonomic groups within Mammalia
- Led tours of collections for undergraduate students at Fort Hays State University Prepared mammal specimens for accession in the Sternberg Museum of Natural History
- Cared for the teaching collection of live animals in the Sternberg Museum's Discovery Room

Student Researcher (May – August 2008) Doane College (Crete, NE)

- Collected insects for molecular analysis (*Cicindela punctulata* and *Melanoplus femurrubrum*)
- Extracted DNA from both fresh and preserved specimens; quantified and amplified DNA samples; ran electrophoresis gels on PCR products; analyzed sequenced DNA fragments to quantify genetic isolation among populations

Organic Extraction Lab Technician (June – September 2007) Pace Analytical (Lenexa, KS)

- Assisted in receiving, preparation, and analysis of environmental samples (soil, oil, water)

Student Researcher (May – August 2006) Doane College (Crete, NE)

- Assisted in Dr. Barb Clement's investigation of microbial flora in new and established prairie soils
- Extracted DNA and cultured bacteria from soil samples; produced stains of resulting bacteria

PUBLICATIONS

Talbott, K, TM Wolf, P Sebastian, M Abraham, I Bueno, M McLaughlin, T Harris, R Thompson, AP Pessier, and D Travis. 2017. Factors influencing detection and co-detection of *Ranavirus* and *Batrachochytrium dendrobatidis* in a Midwestern North American anuran population. *Dis Aquat Org* (*in review*)

Meshaka, W.S., S. Trauth, K. Talbott, and C. Schmidt. 2012. Reproductive characteristics and sexual maturation of the eastern collared lizard, *Crotaphytus collaris* (Say, 1823), at the northern edge of its geographic range. *Collinsorum* (recently *Journal of Kansas Herpetology*) 2:9–14.

Talbott, K., and J. Carter. 2013. *Crotaphytus collaris*: frugivory. *Herpetological Review* 44:141.

PROFESSIONAL DEVELOPMENT

Project WILD and Project WILD Aquatic Certification – 2009

Project Learning Tree and Flying WILD Certification – 2012

FrogWatch Chapter Coordinator Training – 2013

Introduction to GIS 101, U-Spatial Learning Center at University of Minnesota – 2013

Webmapping for Arc, U-Spatial Learning Center at University of Minnesota – 2014

Minnesota Bee Atlas volunteer training, Minnesota Master Naturalists – 2016

GRANTS

Minnesota Herpetological Society Grants in Herpetological Conservation and Research (2014, \$1,500)

“Eco-epidemiology of a Dakota County, MN population of amphibians”

Ulysses S. Seal Conservation Grant Program (2014, \$3,500)

“Eco-epidemiology of a Dakota County, MN population of amphibians”

Fort Hays State University Graduate School Mini Grant (2011, \$250)

“Sexual selection in a High Plains population of Eastern collared lizards”

AWARDS AND SCHOLARSHIPS

George Toland Student Presentation Award (2010, \$200)

Faculty Distinction Award (2008, \$1,000)

Study Abroad Scholarship (2007, \$200)

Marianne Clark Freshman Writing Award (2006, \$500)

Van Hoy Academic Scholarship (2005 – 2009, \$14,000)

Doane College Honors Program (2005 – 2009)

SELECTED PRESENTATIONS (*all are oral presentations unless otherwise noted*)

- Talbott, K., T. Wolf, P. Sebastian, I. Padilla, D. Travis, and A. Pessier. 2014. Disease ecology of free-living anurans in a suburban zoological park. *Kansas Herpetological Soc. Annual Conference*, Manhattan, KS.
- Talbott, K. 2014. Local inspiration for statewide conservation: the BioDiscovery Project. *Minnesota Chapter of the Society for Conservation Biology*. Apple Valley, MN.
- Talbott, K., E. Hellgren, and R. Moody. 2012. Using harmonic radar to monitor movements of Texas horned lizard hatchlings on Tinker Air Force Base. *Kansas Herpetological Society*. Hays, KS.
- Talbott, K. and G. Farley. 2011. Factors influencing female choice in a Kansas population of Eastern collared lizards (*Crotaphytus collaris*). *Kansas Herpetological Society*. Wichita, KS.
- Talbott, K., and G. Farley. 2010. Initial results on a study investigating female choice in *Crotaphytus collaris*. *Kansas Herpetological Society*. Topeka, KS.
- Talbott, K., K. Marley, and H. York. 2010. Population genetics of the Sidewalk Tiger Beetle. *Southwestern Association of Naturalists*. Junction, TX.

PROFESSIONAL, HONOR, AND SERVICE ORGANIZATIONS

- Horned Lizard Conservation Society 2012 – 2015
Membership services chair, June 2013 – 2014
- Kansas Herpetological Society 2010 – present
- American Society of Mammalogists 2010 – 2011
- Central Plains Society of Mammalogists
Student Representative, 2009 – 2010
- Fort Hays State Honor Society
- Tri Beta National Biological Honor Society, Doane College Chapter
Treasurer, 2008 – 2009
- Sigma Tau Delta International English Honor Society
- Jane Goodall's 'Roots and Shoots', Doane College Chapter
Secretary, 2005 – 2006
President, 2006 – 2007
Vice President, 2008 – 2009

SELECTED VOLUNTEER EXPERIENCE

- Twin Cities Regional Science Fair judge, February 2016, University of Minnesota, St. Paul, MN
- IHCC Ag Academy workshop presenter, July 2015 & 2016, Inver Hills CC, Inver Grove Heights, MN
- Herpetology Collections Volunteer, fall 2012, Sam Noble Mus. of Nat. Hist., Norman, OK
- Herpetology teaching assistant, spring 2012, Fort Hays State University, Hays, KS
- Volunteer, Sternberg Museum of Natural History, fall 2009 – spring 2012, Hays, KS
- Bird Banding Volunteer, Fort Hays State University Banding Station, fall 2011, Hays, KS
- Hurricane Ike Relief Effort, Doane College service interterm 2009, Galveston Island State Park, TX
- Teaching Assistant under Dr. Betty Levitov, Doane College, fall 2008, Crete, NE
- Volunteer, 'Crime Scene Investigation: Doane', Doane College, spring and fall 2008, Crete, NE
- Hurricane Katrina Relief Effort, Doane College service interterm, 2006: New Orleans, LA, and Waveland, MS