

Emily Beasley
Emily.Beasley@uvm.edu
Department of Biology
University of Vermont

EDUCATION

Aug. 2018–Present, University of Vermont

Ph.D. Biology

Advisor: Nicholas Gotelli

- QuEST Trainee

Jan. 2016–Dec. 2017, Missouri State University

M.S. Biology

Advisor: Sean Maher

- Thesis: Island biogeography of small mammals and associated ectoparasites in the Ozark glades

Aug. 2011–May 2015, Missouri State University

B.S. Wildlife Biology (Summa cum Laude, Honors)

PUBLICATIONS

Beasley, E.M. 2021. Dealing with nondetection: ecologically informed priors improve Bayesian model estimates of missing species. In preparation (*Ecology* Statistical Report).

Beasley, E., Aristizábal, N., Bueno, E., & White, E. 2020. The spore of the beans: Spatially explicit models predict coffee rust spread in fragmented landscapes. bioRxiv 2020.10.16.343194. <https://doi.org/10.1101/2020.10.16.343194>

Beasley, E.M. & Maher, S.P. 2019. Small mammal community composition varies among Ozark glades. *Journal of Mammalogy* 100:1774–1782.

PRESENTATIONS

2020 Ecological Society of America Annual Meeting (Virtual). The spore of the beans: Using spatially explicit methods to model the spread of coffee rust in simulated landscapes. Oral presentation.

2019 American Society of Mammalogists Annual Meeting. Characterizing Small Mammal Communities in an Agriculture/Forest Landscape. Oral presentation (Lightning talk).

2019 Northeast Natural History Conference. Responses of Small Mammal Communities to Local and Landscape Factors in a Forest/Agriculture Mosaic. Poster presentation.

- 2018 American Society of Mammalogists Annual Meeting. Applying island biogeography to small mammals while accounting for imperfect detection. Oral presentation.
- 2017 Central Plains Society of Mammalogists Annual Meeting. Island biogeography of small mammals in the Ozark glades. Oral presentation.
- 2017 American Society of Mammalogists Annual Meeting. Island biogeography of small mammals in the Ozark glades. Poster presentation.

PROFESSIONAL DEVELOPMENT

- 2018 Holistic Specimen Collection Workshop: Small Mammal Parasite Sampling, Preservation, and Identification. American Society of Mammalogists Annual Meeting.

TEACHING

August 2019-Present, University of Vermont

Teaching Assistant

- Mammalogy. Provide students with an overview of mammals, including important adaptations, morphology, and taxonomy of major orders and families. Introduce students to various techniques used for studying mammals, including field methods and the use of software such as R and RAVEN. Reinforce essential scientific skills including scientific writing, data analysis, and communication via independent research projects.

Jan. 2016-Dec. 2017, Missouri State University

Teaching Assistant

- Introductory Biology II. Present introductory biology lab material in a clear and understandable manner. Teach essential scientific and writing skills through class experiments and lab reports.
- Advising. Provide information to high school students and parents regarding Missouri State undergraduate programs and resources in general and Biology Department programs specifically. Give tours of department facilities. Represent the department in an informative, professional manner.
- Mammalogy. Organize field trips, including transporting field gear such as traps, bait, etc. Instruct students on field methods for trapping and collecting data on small mammals in southwest Missouri.

OTHER EMPLOYMENT

Feb. 2018-July 2018, Nemours Wildlife Foundation

Wildlife Technician

- Collected data on small carnivore/mesocarnivore use of managed coastal impoundments in South Carolina. Collected scat for use in population genetic analysis. Identified mammalian tracks to species. Collected camera trap data for occupancy and abundance estimates.

May 2015-Aug. 2015, Missouri State University

Field Biologist

- Tracked alligator snapping turtles using radiotelemetry. Collected environmental data. Operated small-engine boat in adverse weather conditions.

Jan. 2015-Apr. 2015, Rockhampton Zoo, Rockhampton, Australia

Student Intern

- Research: Captive koala stress. Collected baseline behavioral data for comparisons to different housing conditions. Collected feces for analysis of glucocorticoid concentrations using GC-MS machine.
- Animal Husbandry. Cared for various exotic animals, such as dingoes, goannas, koalas, emus, etc. under the supervision of zoo staff.

SKILLS

- *Computer Skills:* R, OpenBUGS/JAGS, Python, ArcGIS
- *Other Skills:* Small mammal trapping/handling, radiotelemetry, ectoparasite identification, small mammal collection curation

EXTRAMURAL GRANTS

- American Society of Mammalogists Grant-in-Aid of Research (2020-2021, 1500 USD)
- Theodore Roosevelt Memorial Fund (Apr. 2019–Apr. 2020, 750 USD)

AWARDS

- American Society of Mammalogists Annie M. Alexander Award (2018)
- Central Plains Society of Mammalogists Best Talk by a Master's Student (2017)
- American Society of Mammalogists Student Travel Award (2017)
- Missouri State General Biology Scholarship (2017)
- Missouri State University Graduate Thesis Funding Award (2016)
- Foundation for Global Scholars Underrepresented in Study Abroad Scholarship (2015)

MEMBERSHIPS

- American Society of Mammalogists
- Ecological Society of America