

ELLEN K. BLEDSOE

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EMPLOYMENT

University of Regina

October 2020 – present

Postdoctoral Teaching and Research Fellow

Department of Biology

CIEE Living Data Project

- Co-teach month-long, graduate-level modules: Scientific Data Management, Reproducibility and Productivity, Synthesis Statistics, and Scientific Collaboration
- Co-organize graduate student working groups
- Facilitate graduate student data rescue internships

EDUCATION

PhD University of Florida, Interdisciplinary Ecology 2015 – 2020
Gainesville, FL
Advisor: S. K. Morgan Ernest

BA Mount Holyoke College, Biological Sciences 2009 – 2013
South Hadley, MA
Organization for Tropical Studies, South Africa Spring 2012
Summa Cum Laude, Phi Beta Kappa

PUBLICATIONS

Emery, N., E. Crispo, S.R. Supp, A.J. Kerkhoff, K.J. Farrell, **E.K. Bledsoe**,..., and M. Aiello-Lammens. (2021). Training data: how can we best prepare instructors to teach data science in undergraduate biology and environmental science courses? *bioRxiv* [preprint]
<https://doi.org/10.1101/2021.01.25.428169>

Emery, N., **E.K. Bledsoe**, A.O. Hasley, and C. Eaton Diaz. (2021). Cultivating inclusive educational environments in ecology and evolutionary biology. *Ecology and Evolution* 11(4):1480-1491. <https://doi.org/10.1002/ece3.7062>

Bledsoe, E.K., and S.K.M. Ernest. (2019). Temporal changes in species composition affect a ubiquitous species' use of habitat patches. *Ecology* e02869. <https://doi.org/10.1002/ecy.2869>

Christensen, E.M., G.M. Yenni, H. Ye, J.L. Simonis, **E.K. Bledsoe**,...S.K.M. Ernest. (2019). portalr: an R package for summarizing and using the Portal Project data. *Journal of Open Source Software* 4(33):1098. <https://doi.org/10.21105/joss.01098>.

White, E.P., G.M. Yenni, S.D. Taylor, E.M. Christensen, **E.K. Bledsoe**,...S.K.M. Ernest. (2019). Developing an automated iterative near-term forecasting system for an ecological study. *Methods in Ecology and Evolution* 10:332-344. <https://doi.org/10.1111/2041-210X.13104>.

Yenni, G.M., E.M. Christensen, **E.K. Bledsoe**, S.R. Supp,...S.K.M. Ernest. (2019). Developing a modern data workflow for regularly updated data. *PLoS Biology* 17(1):e3000125. <https://doi.org/10.1371/journal.pbio.3000125>.

Ernest, S.K.M., G.M. Yenni, G. Allington, **E.K. Bledsoe**, E.M. Christensen,...T.J. Valone. (2018). The Portal Project: a long-term study of a Chihuahuan desert ecosystem. *bioRxiv* 332783. <https://doi.org/10.1101/332783>.

Bledsoe, E.K., and D.M. Blumstein. (2015). What is the sound of fear? Behavioral responses of white-crowned sparrows, *Zonotrichia leucophrys*, to synthesized nonlinear acoustic phenomena. *Current Zoology* 60(4): 534-541. <https://doi.org/10.1093/czoolo/60.4.534>.

SOFTWARE

Ye, H., **E.K. Bledsoe**, R.M. Diaz, S.K.M. Ernest, J.L. Simonis, E.P. White, & G.M. Yenni. (2020). Macroecological Analyses of Time Series Structure. R package, v0.3.2. <http://doi.org/10.5281/zenodo.3823768>

Yenni, G.M., H. Ye, E.M. Christensen, **E.K. Bledsoe**, R.M. Diaz., S.D. Taylor, E.P. White, & S.K.M. Ernest. (2018). portalr: create useful summaries of the Portal data. R package, v0.1.4. <https://CRAN.R-project.org/package=portalr>.

INVITED TALKS

Emery, N., **E. K. Bledsoe**, and A. Hasley. April 2, 2021. *Cultivating inclusive educational environments in ecology and evolutionary biology*. Broadening Representation in Ecology With Science (BREWS), University of Minnesota, St. Paul, MN (virtual).

Emery, N., **E. K. Bledsoe**, and A. Hasley. Feb. 4, 2021. *Cultivating inclusive educational environments in ecology and evolutionary biology*. Environmental Data Science Inclusion Network (EDSIN) Community Chat (virtual).

Bledsoe, E. K. Jan. 13, 2021. *Leveraging long-term changes in species composition to understand shifts in patch preference*. University of Lethbridge, Lethbridge, AB (virtual).

Bledsoe, E. K., and S. K. M. Ernest. Sept. 2020. *Leveraging long-term changes in species composition to understand shifts in patch preference*. Long-term Datasets for Biodiversity Monitoring, Research, and Management Session, The Wildlife Society (virtual).

Bledsoe, E. K., and M. Phillips. May 7, 2020. *Allies 101: How to create a welcoming and inclusive academic environment*. Culturally Aware Mentoring, Mote Marine Laboratory & Aquarium, Sarasota, FL (virtual).

Bledsoe, E. K., and L. Riibe. Feb.17, 2020. *Allies 101: How to create a welcoming and inclusive academic environment.* Dept. of Wildlife Ecology, University of Florida, Gainesville, FL.

Bledsoe, E. K., and A. K. Lewis. Sept.17, 2019. *Ally Skills 101: Why allies?* Dept. of Biology, University of Florida, Gainesville, FL.

Bledsoe, E. K., and A. K. Lewis. Sept.11, 2019. *Ally Skills 101: Why allies?* Research Bazaar, University of Florida, Gainesville, FL.

TEACHING

CIEE Living Data Project Fall 2021
Reproducible Science, Synthesis Statistics, Scientific Data Management, and Scientific Collaboration
• four modules (4 weeks each) for graduate students across Canada (virtual)

Instructor of Record
Environmental Science Lab Fall 2019
• career-oriented undergraduate lab course, University of Florida
Biodiversity Patterns & Processes (co-instructor with Morgan Ernest) Fall 2018
• mixed graduate and undergraduate class, University of Florida

Guest Lecturer
Introductory Biology (Ecology section; Dr. Kerri Finlay), Univ. of Regina March 2021
Florida Master Naturalist Program, University of Florida April 2018
Women in Ecology Webinar (Dr. Joel Ralston), St. Mary's College October 2017
Forest Ecology (Dr. Stephanie Bolhman), University of Florida November 2017
Forest Ecology (Dr. Stephanie Bolhman), University of Florida November 2016

Data & Software Carpentry Workshops
Instructor – Software Carpentry Workshop, University of Florida February 2019
Helper – Data Carpentry Workshop, University of Florida August 2018
Helper – Data Carpentry Workshop, University of Florida June 2018
Helper – Data Carpentry Workshop, University of Florida March 2018
Instructor – Data Carpentry (7-week) Workshop, University of Florida January 2018
Helper – Data Carpentry Workshop, University of Florida August 2017

Teaching Assistant
Evolution (Undergraduate), Mount Holyoke College Spring 2013
Ecology (Undergraduate), Mount Holyoke College Fall 2012
Introductory Biology (Undergraduate), Mount Holyoke College Fall 2011

Tutoring & Mentoring
Tutor for Biology Department, Mount Holyoke College 2011 – 2013
Peer-Led Undergraduate Mentor (Ecology), Mount Holyoke College Fall 2012

STUDENTS SUPERVISED

Graduate Students

Jenna Leosberg, Data Rescue Internship	Oct. 2020 – Feb. 2021
Jayne Mendard, Data Rescue Internship	Oct. 2020 – Feb. 2021
Nadia Paez, Data Rescue Internship	Oct. 2020 – Feb. 2021
Kelsey Bell, Data Rescue Internship	Oct. 2020 – Feb. 2021
Liam Johnson, Data Rescue Internship	Jan. 2021 – Mar. 2021

Undergraduate Students

Alexis Irvin, REU, University of Florida	Aug. 2020 – Apr. 2021
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LEADERSHIP & SERVICE

Ally Skills Network (University of Florida) – Co-Founder **Summer 2019 – present**

Instructor—Ally Skills Workshop, PEEC 2021	Feb. 18, 20201
Instructor—Faculty-Focused Ally Skills Workshop, UF	Oct. 26, 2020
Instructor—Ally Skills Workshop, UF (cancelled, COVID-19)	March 2020
Instructor—Ally Skills Workshop, UF	Oct. 14, 2019
Organizer—Ally Skills Workshop, UF	May 6, 2019
Organizer—Train-the-Trainers Workshop, UF	May 7, 2019
Co-organizer—Ally Skills Workshop, UF	Feb. 21, 2018

Dept. of Wildlife Ecology & Conservation Diversity Committee **2019 – 2020**

Graduate Student Representative

Natural Resources Diversity Initiative **2015 – 2020**

President	2019 – 2020
Vice President	2018 – 2019
Treasurer	2017 – 2018

Graduate Student Council—School of Natural Resources & Environment **2015 – 2019**

President	2018 – 2019
Vice President	2017 – 2018
Treasurer	2016 – 2017

HONORS & AWARDS

UF Association for Academic Women, Emerging STEM Scholar, \$1000	2020
Environmental Data Science Inclusion Network (EDSIN-QUBES) Open Education Fellow	2019
Biological & Environmental Data in Education (BEDE) Network Steering Committee	2019
UF Student Activities & Involvement “Inclusion Excellence” Award—NRDI	2019
UF Doris Lowe and Earl & Verna Lowe Scholarship, \$2000	2019
NSF Graduate Research Fellowship—Honorable Mention	2015
Mount Holyoke College “21 st Century Scholars” Academic Scholarship, \$80,000	2009-2013
MHC Dept. of Biological Sciences “Excellence in Teaching”	2013
MHC Kathryn F. Stein “Most Outstanding Research Paper in Biological Sciences”	2013
MHC Bernice Maclean “Excellence in Biology in Senior Year” Award	2013

MHC Mary Lyon Scholar (High Honors or Summa Cum Laude recipients)	2013
MHC Miller-Worley Center for the Environment Summer Fellowship, \$3,000	2012

ADDITIONAL TRAINING

Teaching for Accessibility and Inclusivity Certificate, University of Florida	April 2020
Evolution of Data in the Classroom: From Data to Data Science (QUBES/BioQUEST)	July 2019
Summer Workshop—"Future Faculty" Participant, College of William & Mary	
Train-the-Trainers (to lead Ally Skills Workshops), University of Florida	May 2019
Introduction to Bayesian Statistics Workshop, Lygra, Norway	September 2018
Making-a-Mentor Workshop, University of Florida	May 2018
Ally Skills Workshop, University of Florida	February 2018
Bayesian Species Distribution Modeling Workshop, University of Florida	November 2017
Software & Data Carpentry Instructor Training Workshop, University of Florida	May 2017
Project Learning Tree Training Session, Austin-Cary Forest (UF)	January 2017
WGSA Science Communication Workshop, University of Florida	December 2016

PRESENTATIONS & POSTERS

Bledsoe, E.K., and S.K.M. Ernest. (2018). Heterogeneity in competitors affects patch preference in the same extrinsic environment. Ecological Society of America, New Orleans, LA.

Bledsoe, E.K., S.M. Wisely, and S.K.M. Ernest. (2017). DNA metabarcoding provides insights into desert rodent diet partitioning. Ecological Society of America, Portland, OR.

Bledsoe, E.K., and S.K.M. Ernest. (2016). The core-sporadic framework: synthesizing spatial and temporal patterns of distribution. Gordon Research Conference: Unifying Ecology Across Scales, Biddeford, ME.

Bledsoe, E.K., and S.K.M. Ernest. (2016). The core-sporadic framework: synthesizing spatial and temporal patterns of distribution. UF School of Natural Resources and Environment Research Symposium, Gainesville, FL.

PAST RESEARCH EXPERIENCE

Bat Field Technician, Great Smoky Mountains National Park, NC/TN May 2015 – July 2015
Indiana State University, PI: Dr. Joy O'Keefe
Roosting ecology of Northern long-eared bats, Indiana bats, and little brown bats

Feral Swine Technician, Savanna River Ecology Laboratory, SC Jan. 2015 – Apr. 2015
University of Georgia, PI: Dr. James Beasley
Population dynamics of wild pigs

Bat Community Technician (Field Leader), Kirksville, MO Aug. 2014 – Nov. 2014
Missouri Department of Conservation
Acoustic monitoring of bat communities across northeastern Missouri

Bat Field Technician, Nashville, IN May 2014 – July 2014

Ball State University, PI: Dr. Tim Carter
Roosting ecology of northern long-eared bats and acoustic monitoring of bat communities

Deer Capture Research Technician, Winter, WI Dec. 2013 – Apr. 2014
Wisconsin Department of Natural Resources
Population dynamics and mortality of white-tailed deer

Species Monitoring Intern, Lava Beds National Monument, CA June 2013 – Nov. 2013
National Park Service (through American Conservation Experience)
Bat maternity colony surveys, population dynamics of pika in Lava Beds

Advanced Independent Research, Gothic, CO May 2012 – Aug. 2012
Rocky Mountain Biological Laboratory, PI: Dr. Dan Blumstein
Behavioral responses of white-crowned sparrows to nonlinear acoustic responses