

## Ellen K. Bledsoe, PhD

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GitHub: <https://github.com/bleds22e>

### EMPLOYMENT

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**University of Arizona:** Tucson, AZ Nov 2021 – present

*Assistant Professor of Practice*  
School of Natural Resources and Environment

**University of Regina:** Regina, SK, Canada Oct 2020 – Nov 2021

*Postdoctoral Teaching and Research Fellow*  
Department of Biology  
CIEE Living Data Project

### EDUCATION

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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

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**Bledsoe, E.K.**, J.B. Burant, G.T. Higinio, D.G. Roche, S.A. Binning, K. Finlay, ..., and D.S. Srivastava. (2021). Data rescue: saving environmental data from extinction. *OSF* [preprint] <https://osf.io/p2rjd/>

Phillips, M.A., H. Ye, and **E.K. Bledsoe**. (2021). An introduction to ally skills for natural history collections professionals. *OSF* [preprint] <https://osf.io/e2yrv/>

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**

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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**

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**E.K. Bledsoe**. August 12, 2021. *What does it mean to be a good ally? Actions towards allyship*. International Association of Wildlife Fire: Workforce Resilience Ignite Talk Series. (virtual).

Davis, M.K., and **E.K. Bledsoe**. Aug. 12, 2021. *EDI values in the classroom*. Center for Teaching and Learning, University of Regina (virtual).

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

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**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**

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#### **Graduate Students: LDP Data Rescue Internships**

A. Hesketh, B. Krochuk, A. Lippold, N. Lermينياux, & K. Palmier	Jun. 2021 – Oct. 2021
K. Bell, L. Johnson, J. Loesberg, J. Menard, & N. Paez	Oct. 2020 – Feb. 2021

#### **Undergraduate Students**

Jess Lermينياux, Finlay Lab, University of Regina	Summer 2021
Alexis Irvin, REU, University of Florida	Aug. 2020 – Apr. 2021

### **LEADERSHIP & SERVICE**

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

Instructor—Ally Skills Workshop, PEEC 2021	Feb. 18, 2020
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

#### **Biological & Environmental Data in Education (BEDE) Network** **2019 – present**

Steering Committee and Senior Personnel	
Co-facilitator: Data science in undergraduate ecology (ESA workshop, virtual)	Aug. 6, 2021

#### **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 – 2020**

President (2018-2019); Vice President (2017-2018); Treasurer (2016-2017)

### **HONORS & AWARDS**

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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 <sup>st</sup> 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**

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Culturally Relevant Education in Env. Data Science (CREEDS) Workshop	August 2020
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