

J. ALEX BAECHER



✉ jbaecher@ufl.edu
 ☎ 352-226-3983
 💻 www.alexbaecher.com
 📍 354 Newins-Ziegler Hall
 University of Florida, IFAS
 Gainesville, Florida 32601 USA

EDUCATION

MAY 2024 (expected)

INTERDISCIPLINARY ECOLOGY, PHD | UNIVERSITY OF FLORIDA

DECEMBER 2017

BIOLOGICAL SCIENCES, MS | EASTERN KENTUCKY UNIVERSITY

MAY 2014

BIOLOGICAL SCIENCES, BS | UNIVERSITY OF ARKANSAS

EXPERIENCE

AUGUST 2019 – ...

GRADUATE ASSISTANT | UNIVERSITY OF FLORIDA

- *Teaching*: Instructor of record for Environmental Science Laboratory (EVS 3000L)
- *Research*: Predicting the effects of climate and land use change on invasive and priority native reptiles and amphibians in the southeastern USA

JANUARY 2018 – JULY 2019

CONSERVATION AND RESEARCH TECHNICIAN | MEMPHIS ZOOLOGICAL SOCIETY

- *Research*: Modeled the efficacy of various sperm collection and cryopreservation protocols to develop better amphibian reproductive technologies
- *Herpetoculture*: Managed animal care for repatriation project for endangered dusky gopher frogs and Louisiana pine snakes using in-vitro fertilization and captive rearing

MAY – AUGUST 2017

NSF REU RESEARCH COORDINATOR | EASTERN KENTUCKY UNIVERSITY

- *Teaching*: Coordinated study design, data collection, analysis, and manuscript development for seven students

MAY 2015 – AUGUST 2017

GRADUATE ASSISTANT | EASTERN KENTUCKY UNIVERSITY

- *Teaching*: 2 – 3 sections per week Human Anatomy Lab
- *Research*: Investigated the population dynamics of woodland salamanders in old growth Appalachian Forest
- *Service*: Herpetocultural manager of live outreach animals, including venomous reptiles; led specimen preparation and accessioning; curated digitization of collections

JANUARY 2014 – MARCH 2015

RESEARCH ASSISTANT | UNIVERSITY OF ARKANSAS

- *Research*: Managed field data collection for project investigating the effects of ecological restoration of Tallgrass Prairie of grassland herpetofauna

AUGUST 2012 – JANUARY 2014

RESEARCH TECHNICIAN | UNIVERSITY OF ARKANSAS

- *Research*: Assisted in research projects, including field and laboratory data collection, database management and analysis, and community outreach

INVITED PEER REVIEWER

JOURNAL | QTY

BIOLOGICAL CONSERVATION | 1

ECOLOGY AND EVOLUTION | 2

HERPETOLOGICAL CON. BIO. | 3

HERPETOLOGICAL REVIEW | 4

JOURNAL OF NATURAL AREAS | 2

WILDLIFE SOCIETY BULLETIN | 2

HYDROBIOLOGIA | 1

AWARDS

RESEARCH GRANTS, FELLOWSHIPS, OR TRAVEL AWARDS

\$4,000 | University of Florida, Robin E Nadeau Graduate Research Award (2019)

\$195,000 | University of Florida, Graduate School Preeminence Award (2019)

\$500 | Society for the Study of Amphibians and Reptiles Research Grant (2016)

\$500 | Eastern Kentucky University, Department of Biological Sciences Travel Stipend (2016)

\$500 | Eastern Kentucky University, Division of Natural Areas Research Grant (2016)

\$1,100 | Kentucky Academy of Science, Marcia Athey Research Grant (2016)

\$700 | Society for Freshwater Science, Instars Fellowship (2013)

\$700 | Society for Freshwater Science, Instars Fellowship (2014)

\$5,000 | University of Arkansas, NSF REU Fellowship (2012)

\$5,000 | University of Arkansas, NSF REU Fellowship (2013)

PUBLICATIONS

JA Baecher, [...], BR Scheffers. *In prep.* A framework for modeling connectivity of populations incorporating propagule pressure: a case study with invasive Burmese pythons. *Ecography*

JA Baecher, [...], BR Scheffers. *In revision.* Experimental evaluation of how invasions and climate change interact to alter the vertical assembly of an amphibian community. *Journal of Animal Ecology*

Basham, EW, **JA Baecher**, D Kluges, BR Scheffers. *In Press.* Vertical stratification patterns of tropical forest vertebrates: A meta-analysis. *Biological Reviews* [HTML](#) (IF 14.4)

Basham, EW, [...], **JA Baecher**, BR Scheffers. **2022.** Large, old trees define the vertical, horizontal, and seasonal distributions of a poison frog. *Oecologia* [HTML](#) (IF 5.6)

Swartwout, M, PN Vogrinc, **JA Baecher**, [...], JD Willson. **2020.** Prey Size and Growth Rate do not Influence Trophic Morphology of Juvenile Water Snakes (*Nerodia sipedon*). *Herpetologica* [HTML](#) (IF 2.7)

Baecher, JA, E Jones, SC Richter. **2020.** Tail bifurcation in two species of *Desmognathus* salamander (Caudata: Plethodontidae) in southeastern Kentucky, USA. *Herpetological Bulletin* [HTML](#) (IF 0.4)

Hinkson, KM, **JA Baecher**, S Poo. **2019.** Cryopreservation and hormonal induction of spermic urine in the smooth-sided toad (*Rhaebo guttatus*). *Cryobiology* [HTML](#) (IF 2.7)

Baecher, JA, SC Richter. **2018.** Environmental gradients in an old-growth Appalachian Forest predict fine-scale distribution, co-occurrence, and abundance of woodland salamanders. *Ecology and Evolution* [HTML](#) (IF 2.9)

Baecher, JA, JD Willson, PN Vongric, JC Guzy, CS Kross. **2018.** Herpetofaunal Communities in Restored and Unrestored Remnant Tallgrass Prairie and Associated Wetlands in Northwest Arkansas, USA. *Wetlands* [HTML](#) (IF 2.1)

Baecher, JA, PN Vogrinc, JC Guzy, JC Neal, JD Willson. **2014.** *Lithobates areolatus* (Crawfish Frog). Predation. *Herpetological Reviews* [HTML](#) (IF 0.2)

PRESENTATIONS

CONTRIBUTIONS TO EXTERNAL SYMPOSIA:

E Khazan, [...], [JA Baecher](#). 2022. Association for Tropical Biology and Conservation. *Cartagena, Columbia*

[JA Baecher](#), L Evans, [...], BR Scheffers. 2022. International Association of Landscape Ecology. *Virtual*

L Evans, BR Scheffers, [JA Baecher](#). 2022. Collaborative to Combat the Illegal Trade in Turtles. *Virtual*

Basham, EW, [JA Baecher](#), [...], BR Scheffers. 2021. Ecological Society of America. *Virtual*

Jones, E, [JA Baecher](#), [...], SC Richter. 2019. Association of Southeastern Biologists. *Memphis, TN*

Hinkson, KM, [JA Baecher](#), S Poo. 2019. Association of Southeastern Biologists. *Memphis, TN*

[Baecher, JA](#), SB Reichling. 2018. Louisiana Pinesnake Stakeholder Meeting. *Shreveport, LA*

Jones, E, [JA Baecher](#), [...], SC Richter. 2018. Kentucky Academy of Science. *Bowling Green, KY*

Gross, BA, Z Patton, [JA Baecher](#), [...]. 2018. 25th Crocodile Specialist Group. *Sante Fe, Argentina*

[Baecher, JA](#), SC Richter. 2018. Joint Meeting of Ichthyologists and Herpetologists. *Rochester, NY*

Grap, P, S Harrel, [...], [JA Baecher](#). 2018. Association of Southeastern Biologists. *Myrtle Beach, SC*

Peters, J, J Koslow, [JA Baecher](#). 2018. Association of Southeastern Biologists. *Myrtle Beach, SC*

[Baecher, JA](#), SC Richter. 2017. University of Kentucky, Center for Ecology, Evolution and Behavior. *Lexington, KY*

Grap, P, S Harrel, [...], [JA Baecher](#). 2017. Southeastern Fisheries Council Annual Meeting. *Chattanooga, TN*

[Baecher, JA](#), SC Richter. 2017. SE Partners in Amphibian & Reptile Conservation. *Little Rock, AR*

Swartwout, M, PN Vogrinc, [JA Baecher](#), [...]. 2016. Joint Meeting of Ichthyologists and Herpetologists. *New Orleans, LA*

[Baecher, JA](#), PN Vongrinc, JD Willson. 2016. Joint Meeting of Ichthyologists and Herpetologists. *New Orleans, LA*

[Baecher, JA](#), DR Leasure, [...], DD Magoulick. 2014. Joint Meeting of Aquatic Sciences. *Portland, OR*

[Baecher, JA](#), DR Leasure, [...], DD Magoulick. 2013. American Fisheries Society. *Little Rock, AR*

[Baecher, JA](#), J Ortega, SJ Beaupré. 2013. Society for Freshwater Science. *Jacksonville, FL*

HOSTED WORKSHOPS:

Fletcher, R, [JA Baecher](#), [...], Thomas Smith. 2021. Expanding the scope of connectivity modeling with Markov chains: perspectives and applications in R. International Association of Landscape Ecology. *Virtual*

[Baecher, JA](#), L Evans, BR Scheffers. 2022. Expert elicitation of key invasive species habitat requirements, prevalence, and life history attributes using an Interactive Shiny App. Austin Carey Experimental Forest, Gainesville Florida.

CONTRIBUTIONS TO INTERNAL SYMPOSIA:

UNIVERSITY OF FLORIDA | 5

EASTERN KENTUCKY UNIVERSITY | 5

UNIVERSITY OF ARKANSAS | 4

CURRENT PROFESSIONAL SOCIETIES

JANUARY 2020 – ...

INTERNATIONAL ASSOCIATION OF LANDSCAPE ECOLOGISTS (NORTH AMERICAN CHAPTER)

ECOLOGICAL SOCIETY OF AMERICA

BRITISH ECOLOGICAL SOCIETY

ECOLOGICAL FORECASTING INITIATIVE

JANUARY 2012 – DECEMBER 2019

AMERICAN SOCIETY OF ICHTHYOLOGISTS AND HERPETOLOGISTS

SOUTHEASTERN PARTNERS IN AMPHIBIAN AND REPTILE CONSERVATION

SOCIETY FOR THE STUDY OF AMPHIBIANS AND REPTILES

SOCIETY FOR FRESHWATER SCIENCE

MENTORSHIP

EASTERN KENTUCKY UNIVERSITY:

[NATHAN MCGREGOR](#), [ASHLEY ALBINO](#), [EMILY JONES](#), [ALEX GIBSON](#), [MYESHA JAMES](#) & [KELLEY HOEFER](#)

MEMPHIS ZOO:

[BILL HAUGE](#), [MORGAN MATTINGLY](#) & [MADELINE ESTES](#)

UNIVERSITY OF FLORIDA:

[SIERRA SCAUZILLO](#)

PROFESSIONAL REFERENCES

BRETT R SCHEFFERS, PHD | ASSISTANT PROFESSOR, WILDLIFE ECOLOGY AND CONSERVATION, UNIVERSITY OF FLORIDA

☎ 352-846-0570

✉ brett.scheffers@ufl.edu

💻 www.schefferslab.com

📄 215 Newins-Ziegler Hall
University of Florida
Gainesville, FL 32611 USA

ROB J FLETCHER, PHD | FULL PROFESSOR, WILDLIFE ECOLOGY AND CONSERVATION, UNIVERSITY OF FLORIDA

☎ 352-846-0632

✉ robert.fletcher@ufl.edu

💻 www.fletcherlab.com

📄 318 Newins-Ziegler Hall
University of Florida
Gainesville, FL 32611 USA

STEPHEN C RICHTER, PHD | PROFESSOR, BIOLOGICAL SCIENCES; DIRECTOR, DIVISION OF NATURAL AREAS, EASTERN KENTUCKY UNIVERSITY

☎ 859-622-8688

✉ stephen.richter@eku.edu

💻 www.richterlab.weebly.com

📄 Science Building 3238
Eastern Kentucky University
Richmond, KY 40475 USA

JOHN D (JD) WILLSON, PHD | ASSOCIATE PROFESSOR, BIOLOGICAL SCIENCES, UNIVERSITY OF ARKANSAS

☎ 479-575-2647

✉ jwillson@uark.edu

💻 www.willsonlab.com

📄 Science & Engineering Building 630
University of Arkansas
Fayetteville, AR 72701 USA