

# J. ALEX BAECHER



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## EDUCATION

AUGUST 2024

INTERDISCIPLINARY ECOLOGY, PHD | UNIVERSITY OF FLORIDA

DECEMBER 2017

BIOLOGICAL SCIENCES, MS | EASTERN KENTUCKY UNIVERSITY

MAY 2014

BIOLOGICAL SCIENCES, BS | UNIVERSITY OF ARKANSAS

## EXPERIENCE

JANUARY 2018 – JULY 2019

CONSERVATION AND RESEARCH TECHNICIAN | MEMPHIS ZOO

MAY – AUGUST 2017

NSF REU RESEARCH COORDINATOR | EASTERN KENTUCKY UNIVERSITY

MAY 2015 – AUGUST 2017

GRADUATE TEACHING ASSISTANT | EASTERN KENTUCKY UNIVERSITY

JANUARY 2014 – MARCH 2015

UNDERGRADUATE RESEARCH ASSISTANT | UNIVERSITY OF ARKANSAS

AUGUST 2012 – JANUARY 2014

UNDERGRADUATE RESEARCH TECHNICIAN | UNIVERSITY OF ARKANSAS

## FUNDING

AMOUNT	ORGANIZATION	AWARD NAME	YEAR
\$4,000	UF	Robin Nadeau Graduate Research Award	2019
\$195k	UF	Doctoral Preeminence Fellowship Award	2019
\$500	SSAR	Grant-in-Aid of Herpetological Research	2016
\$500	EKU	Dep. Biological Sciences Travel Stipend	2016
\$500	EKU	Div. Natural Areas Research Grant	2016
\$1,100	EKU	Marcia Athey Research Grant	2016
\$700 (x2)	SFS	Instars Fellowship	2013 – '14
\$5,000 (x2)	NSF	Research Experience for Undergraduates	2012 – '13

## PEER REVIEW

JOURNAL (REVIEWED/REQUESTED):

BIOLOGICAL CONSERVATION (1/1); CONSERVATION SCIENCE AND PRACTICE (1/2);  
ECOGRAPHY (1/1); ECOLOGY AND EVOLUTION (4/5); HERPETOLOGICAL  
CONSERVATION BIOLOGY (3/5); HERPETOLOGICAL REVIEW (4/5); HYDROBIOLOGIA  
(1/1); NATURAL AREAS JOURNAL (2/2); OECOLOGIA (1/2); SCIENTIFIC REPORTS (1/1);  
WILDLIFE SOCIETY BULLETIN (2/2)

## PUBLICATIONS

- ...) Evans, L, [JA Baecher](#), J Cullen, C Romagosa, BR Scheffers. ***In prep.*** An expert elicitation tool for mapping the prevalence and habitat suitability of invasive species.
- ...) [Baecher, JA](#), D Klinges, L Evans, C Romagosa, R Fletcher, BR Scheffers. ***In review.*** Isolating what limits the spread of an invasive predator. *Journal of Applied Ecology*  
[CODE](#) [PREPRINT](#)
- ...) Evans, L, [JA Baecher](#), BR Scheffers. ***In revision (major)***. Invasion risk posed by the pet trade. *Frontiers in Ecology and the Environment*
- 13) [Baecher, JA](#). **2024**. The environmental filtering paradigm and non-filtering community assembly processes. *Journal of Biogeography* [HTML](#) [PDF](#)
- 12) DH Klinges, [JA Baecher](#), ... BR Scheffers. **2024**. Proximal microclimate: moving beyond spatiotemporal scale to improve predicted biological responses. *Global Ecology and Biogeography* [HTML](#) [PDF](#) [CODE](#)
- 11) Comte, L, R Bertrand, S Diamond, LT Lancaster, ML Pinsky, BR Scheffers, [JA Baecher](#), ... J Lenoir. **2024**. Bringing traits back in the equation: A roadmap to understand species redistribution. *Global Change Biology* 30:e17271 [HTML](#) [PDF](#)
- 10) Lawlor, JA, L Comte, G Grenouillet, J Lenoir, [JA Baecher](#), ... J Sunday. **2024**. Mechanisms, detections, and impacts of species redistributions under climate change. *Nature Reviews Earth & Environment* 5:351 – 368 [HTML](#) [PDF](#)
- 9) [Baecher, JA](#), SA Johnson, EA Roznik, BR Scheffers. **2023**. Experimental evaluation of how invasions and climate change interact to alter the vertical assembly of an amphibian community. *Journal of Animal Ecology* 92:875 – 888 [HTML](#) [PDF](#)  
[CODE](#) | [Press: Nature Climate Change](#) [Florida Today](#) [USGS](#)
- 8) Basham, EW, [JA Baecher](#), DH Klinges, BR Scheffers. **2022**. Vertical stratification patterns of tropical forest vertebrates: A meta-analysis. *Biological Reviews* 98(1):99 – 114  
[HTML](#) [PDF](#) [CODE](#)
- 7) Basham, EW, M González-Pinzón, A Romero-Marcucci, N Carl, [JA Baecher](#), BR Scheffers. **2022**. Large, old trees define the vertical, horizontal, and seasonal distributions of a poison frog. *Oecologia* 199:257 – 269 [HTML](#) [PDF](#) [CODE](#)
- 6) Swartwout, M, PN Vogrinc, [JA Baecher](#), CS Kross, JD Willson. **2020**. Prey Size and Growth Rate do not Influence Trophic Morphology of Juvenile Water Snakes *Nerodia sipedon*. *Herpetologica* 76(1):53 – 60 [HTML](#) [PDF](#)
- 5) [Baecher, JA](#), E Jones, SC Richter. **2020**. Tail bifurcation in two species of *Desmognathus* salamander Caudata: Plethodontidae in southeastern Kentucky, USA. *Herpetological Bulletin* 150:29 – 30 [HTML](#) [PDF](#)
- 4) Hinkson, KM, [JA Baecher](#), S Poo. **2019**. Cryopreservation and hormonal induction of spermic urine in the smooth-sided toad *Rhaebo guttatus*. *Cryobiology* 89:109 – 111  
[HTML](#) [PDF](#) | [Press: The Commercial Appeal](#) [USA Today](#)
- 3) [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* 8(24):12940 – 12952 [HTML](#) [PDF](#) [CODE](#)
- 2) [Baecher, JA](#), PH Vogrinc, JC Guzy, CS Kross, JD Willson. **2018**. Herpetofaunal Communities in Restored and Unrestored Remnant Tallgrass Prairie and Associated Wetlands in Northwest Arkansas, USA. *Wetlands* 38:157 – 168 [HTML](#) [PDF](#)
- 1) [Baecher, JA](#), PH Vogrinc, JC Guzy, JC Neal, JD Willson. **2014**. *Lithobates areolatus*, Predation. *Herpetological Reviews* 45(4):681 – 682 [PDF](#)

## PRESENTATIONS

### SELECTED ONLY EXTERNAL SYMPOSIA: †TALK ‡POSTER

- 32) †[Baecher, JA](#), L Evans, ... BR Scheffers. 2024. UF ISRI. *Gainesville, FL* [SLIDES](#)
- 31) †Evans, L, [JA Baecher](#), ... BR Scheffers. 2024. UF ISRI. *Gainesville, FL*
- 30) †[Baecher, JA](#), D Klinges, ... BR Scheffers. 2023. Species On The Move. *Ft Myers, FL* [SLIDES](#)
- 29) †Scheffers, BR, [JA Baecher](#), E Basham. 2023. Species On The Move. *Ft. Myers, FL*
- 28) †Evans, L, [JA Baecher](#), BR Scheffers. 2023. Species On The Move. *Ft. Myers, FL*
- 27) †Klinges, DH ... [JA Baecher](#), ... BR Scheffers. 2023. Species On The Move. *Ft. Myers, FL*
- 26) †Evans, L, BR Scheffers, [JA Baecher](#). 2022. Invasive Species Mgmt Association. *Ft. Myers, FL*
- 25) †Klinges, DH, [JA Baecher](#), ... BR Scheffers. 2022. Microclimate Ecol. Biogeog. *Antwerp, Belgium*
- 24) †[Baecher, JA](#), BR Scheffers. 2022. BIOSHIFTS. *Montpellier, France* [SLIDES](#)
- 23) †[Baecher, JA](#), L Evans, ... BR Scheffers. 2022. SERISCC network. *Virtual* [SLIDES](#) [VIDEO](#)
- 22) †Khazan, E ... [JA Baecher](#). 2022. Assoc. for Tropical Biol. and Conserv. *Cartagena, Columbia*
- 21) †[Baecher, JA](#), ... BR Scheffers. 2022. Int. Assoc. Landscape Ecol. *Virtual* [SLIDES](#) [VIDEO](#)
- 20) †Evans, L, BR Scheffers, [JA Baecher](#). 2022. Collab. Combat the Illegal Trade in Turtles. *Virtual*
- 19) †Basham, EW, [JA Baecher](#), ... BR Scheffers. 2021. Internat. Canopy Science Conference. *Virtual*
- 18) †Basham, EW, [JA Baecher](#), ... BR Scheffers. 2021. Ecological Society of America. *Virtual*
- 17) †Basham, EW, [JA Baecher](#), ... BR Scheffers. 2021. European Meet. Students Evol. Biol. *Virtual*
- 16) †Jones, E, [JA Baecher](#), ... SC Richter. 2019. Assoc. of Southeastern Biologists. *Memphis, TN*
- 15) †Hinkson, KM, [JA Baecher](#), S Poo. 2019. Association of Southeastern Biologists. *Memphis, TN*
- 14) †[Baecher, JA](#), SB Reichling. 2018. USFWS Working Group Meeting. *Shreveport, LA*
- 13) †Jones, E, [JA Baecher](#), ... SC Richter. 2018. Kentucky Academy of Science. *Bowling Green, KY*
- 12) †Gross, BA, Z Patton, [JA Baecher](#). 2018. 25<sup>th</sup> Crocodile Specialist Group. *Sante Fe, Argentina*
- 11) †[Baecher, JA](#), SC Richter. 2018. Joint Meeting of Ichth's and Herp's. *Rochester, NY*
- 10) †Grap, P, S Harrel, ... [JA Baecher](#). 2018. Assoc. of Southeastern Biologists. *Myrtle Beach, SC*
- 9) †Peters, J, J Koslow, [JA Baecher](#). 2018. Assoc. of Southeastern Biologists. *Myrtle Beach, SC*
- 8) †[Baecher, JA](#), SC Richter. 2017. Center for Ecology, Evolution and Behavior. *Lexington, KY*
- 7) †Grap, P, S Harrel, ... [JA Baecher](#). 2017. Southeastern Fisheries Council. *Chattanooga, TN*
- 6) †[Baecher, JA](#), SC Richter. 2017. SE Partners in Amphibian & Reptile Conserv. *Little Rock, AR*
- 5) †Swartwout, M, P Vogrinc, [JA Baecher](#). 2016. Ichth's and Herp's. *New Orleans, LA*
- 4) †[Baecher, JA](#), P Vongrinc, JD Willson. 2016. Ichth's and Herp's. *New Orleans, LA*
- 3) †[Baecher, JA](#), DR Leasure, ... DD Magoulick. 2014. Jt. Meeting Aquatic Sciences. *Portland, OR*
- 2) †[Baecher, JA](#), DR Leasure, ... DD Magoulick. 2013. American Fisheries Society. *Little Rock, AR*
- 1) †[Baecher, JA](#), J Ortega, SJ Beaupré. 2013. Society for Freshwater Science. *Jacksonville, FL*

### HOSTED WORKSHOPS:

- 3) Fletcher, RJ, ... [JA Baecher](#). 2023. Application of connectivity modeling to identify and predict movement and range redistribution. Species On The Move. *Bonita Springs, FL* [SLIDES](#)
- 2) [Baecher, JA](#), L Evans, BR Scheffers. 2022. Expert elicitation of key invasive species habitat requirements, prevalence, and life history attributes. Austin Carey Forest. *Gainesville, FL* [SLIDES](#)
- 1) Fletcher, RJ, [JA Baecher](#), ... Thomas Smith. 2021. Expanding the scope of connectivity modeling with Markov chains: perspectives and applications in R. Int. Assoc. Landscape Ecol. *Virtual* [VIDEO](#)

### GUEST LECTURES AT UNIVERSITY OF FLORIDA:

- 4) [Baecher, JA](#). 2021. Connectivity under rapid change. *Ecology of Climate Change* [SLIDES](#)
- 3) [Baecher, JA](#). 2020. Restoration ecology of grasslands. Amphibians of the Southeast [SLIDES](#)
- 2) [Baecher, JA](#). 2020. Salamander conservation. Amphibians of the Southeast [SLIDES](#)
- 1) [Baecher, JA](#). 2020. Amphibian diversity. Amphibians of the Southeast [SLIDES](#)

## MENTORSHIP

EASTERN KENTUCKY UNIVERSITY: NATHAN MCGREGOR, ASHLEY ALBINO, EMILY JONES, ALEX GIBSON, MYESHA JAMES, KELLEY HOEFER

RHODES COLLEGE: BILL HAUGE, MADELINE ESTES

UNIVERSITY OF FLORIDA: SIERRA SCAUZILLO, NOAH BOWEN

## NON-FUNDED PROPOSALS

AMOUNT	GRANT DESCRIPTION	DECISION	YEAR
\$235k	NSF: Postdoctoral Research Fellowship – Biology	<i>“Highly meritorious”</i>	2023
\$25k	The Wilderness Society: Gloria Barron Fellowship	<i>Declined</i>	2021
\$3,500	AmMusNatHist: Teddy Roosevelt Memorial Grant	<i>Declined</i>	2020
\$4,000	FCSal: Daniel M. Digiacomio Grant	<i>Declined</i>	2020
\$60k	Walt Disney Company: Disney Conservation Fund	<i>Inquiry declined</i>	2019
\$10k	NPS: James T. Tanner Memorial Fellowship	<i>Inquiry declined</i>	2019

## PROFESSIONAL REFERENCES

BRETT R SCHEFFERS, Ph.D. | UNIVERSITY OF FLORIDA

ASSOCIATE PROFESSOR: *Wildlife Ecology and Conservation*

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✉: [brett.scheffers@ufl.edu](mailto:brett.scheffers@ufl.edu)

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ROBERT GURALNICK, Ph.D. | UNIVERSITY OF FLORIDA

CURATOR OF BIODIVERSITY INFORMATICS: *Florida Museum of Natural History*

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ROBERT J FLETCHER, Ph.D. | UNIVERSITY OF FLORIDA

PROFESSOR: *Wildlife Ecology and Conservation*

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STEPHEN C RICHTER, Ph.D. | EASTERN KENTUCKY UNIVERSITY

DIRECTOR: *Division of Natural Areas*; PROFESSOR: *Department of Biological Sciences*

EXECUTIVE DIRECTOR: *Institute of Agriculture, Natural Resources, and the Environment*

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Eastern Kentucky University

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JOHN D (“JD”) WILLSON, Ph.D. | UNIVERSITY OF ARKANSAS

ASSOCIATE PROFESSOR: *Department of Biological Sciences*

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