

# J. ALEX BAECHER



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## EDUCATION

MAY 2024

INTERDISCIPLINARY ECOLOGY, Ph.D. | UNIVERSITY OF FLORIDA

DECEMBER 2017

BIOLOGICAL SCIENCES, M.Sc. | EASTERN KENTUCKY UNIVERSITY

MAY 2014

BIOLOGICAL SCIENCES, B.Sc. | UNIVERSITY OF ARKANSAS

## EXPERIENCE

JULY 2024 – ...

POST-DOCTORAL ASSOCIATE | FLORIDA MUSEUM OF NATURAL HISTORY

AUGUST 2019 – JUNE 2024

DOCTORAL PREEMINENCE FELLOW (Ph.D.) | UNIVERSITY OF FLORIDA

JANUARY 2018 – JULY 2019

CONSERVATION AND RESEARCH TECHNICIAN | MEMPHIS ZOO

MAY – AUGUST 2017

RESEARCH COORDINATOR (NSF REU) | EASTERN KENTUCKY UNIVERSITY

MAY 2015 – AUGUST 2017

GRADUATE TEACHING ASSISTANT (M.Sc.) | 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*
- ...) DH Klinges, **JA Baecher**, ... BR Scheffers. *In revision (minor)*. Proximal microclimate: moving beyond spatiotemporal scale to improve predicted biological responses. *Global Ecology and Biogeography*
- ...) **Baecher, JA**. *In revision (minor)*. The environmental filtering paradigm and non-filtering community assembly processes. *Journal of Biogeography* | [DRAFT](#)
- 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](#) | [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 Vogninc, **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 Vogninc, 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 Vogninc, 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 USA
- 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 grassland herps. 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

## PROFESSIONAL REFERENCES

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

ASSOCIATE PROFESSOR: *Wildlife Ecology and Conservation*

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### ROBERT GURALNICK, Ph.D. | UNIVERSITY OF FLORIDA

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

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

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

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### JOHN D ("JD") WILLSON, Ph.D. | UNIVERSITY OF ARKANSAS

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