

J. ALEX BAECHER



✉: jbaecher@ufl.edu
☎: 352-226-3983
🌐: www.alexbaecher.com
📍: Gainesville, Florida

EDUCATION

AUGUST 2024

[INTERDISCIPLINARY ECOLOGY, PHD](#) | UNIVERSITY OF FLORIDA

Thesis: Influence of Global Change on Species' Behavior, Movement, and Ranges [PDF](#)

DECEMBER 2017

[BIOLOGICAL SCIENCES, MS](#) | EASTERN KENTUCKY UNIVERSITY

Thesis: Environmental gradients in old-growth Appalachian forest predict fine-scale distribution, co-occurrence, and density of woodland salamanders [PDF](#)

MAY 2014

[BIOLOGICAL SCIENCES, BS](#) | UNIVERSITY OF ARKANSAS

Thesis: Impact of Anthropogenic Land Use Change and Hydrologic Disturbance on Crayfish Assemblages [PDF](#)

EXPERIENCE

AUGUST 2024 – ...

[POSTDOCTORAL RESEARCH ASSOCIATE](#) | UNIVERSITY OF FLORIDA

AUGUST 2019 – 2024

[DOCTORAL PREEMINENCE RESEARCH FELLOW](#) | UNIVERSITY OF FLORIDA

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

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* 51(7):31-8 [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* 33(7):e1-16 [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(4):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. 25th 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](#)

PEER REVIEW

JOURNAL (REVIEWED/REQUESTED):

BIOL. CONS. (1/1); CON. SCI. & PRAC. (1/2); ECOGRAPHY. (1/1); ECOL. & EVOL. (4/5); HERP. CON. BIO. (3/5); HERP. REVIEW (4/5); HYDROBIOL. (1/1); NAT. AREAS JOUR. (2/2); OECOLOGIA (1/2); SCI. REP. (1/1); WILDL. SOC. BULL. (2/2)

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	“Highly meritorious”	2023
\$25k	The Wilderness Society: Gloria Barron Fellowship	Declined	2021
\$3,500	AmMusNatHist: Teddy Roosevelt Memorial Grant	Declined	2020
\$4,000	FCSal: Daniel M. Digiacomio Grant	Declined	2020
\$60k	Walt Disney Company: Disney Conservation Fund	Inquiry declined	2019
\$10k	NPS: James T. Tanner Memorial Fellowship	Inquiry declined	2019

PROFESSIONAL REFERENCES

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

ASSOCIATE PROFESSOR: *Wildlife Ecology and Conservation*

☎: 352-846-0570

🌐: WEBSITE

✉: brett.scheffers@ufl.edu

ROBERT GURALNICK, Ph.D. | UNIVERSITY OF FLORIDA

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

☎: 352-273-1980

🌐: WEBSITE

✉: rguralnick@flmnh.ufl.edu

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

PROFESSOR: *Wildlife Ecology and Conservation*

☎: 352-846-0632

🌐: WEBSITE

✉: robert.fletcher@ufl.edu

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*

☎: 859-622-8688

🌐: WEBSITE

✉: stephen.richter@eku.edu

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

ASSOCIATE PROFESSOR: *Department of Biological Sciences*

☎: 479-575-2647

✉: jwillson@uark.edu

🌐: WEBSITE