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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

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 ASSISTANT | EASTERN KENTUCKY UNIVERSITY

JANUARY 2014 – MARCH 2015

RESEARCH ASSISTANT | UNIVERSITY OF ARKANSAS

AUGUST 2012 – JANUARY 2014

RESEARCH TECHNICIAN | UNIVERSITY OF ARKANSAS

FUNDING

AMOUNT	ORGANIZATION	AWARD NAME	YEAR
\$4,000	University of Florida	Robin Nadeau Graduate Research Award	2019
\$195k	University of Florida	Graduate School Preeminence Award	2019
\$500	Soc. Study Ampib. and Rep.	Grant-in-Aid of Herpetological Research	2016
\$500	Eastern Kentucky University	Dept. Biological Sciences Travel Stipend	2016
\$500	Eastern Kentucky University	Div. Natural Areas Research Grant	2016
\$1,100	Eastern Kentucky University	Marcia Athey Research Grant	2016
\$700 (x2)	Soc. Freshwater Science	Instars Fellowship	2013-'14
\$5,000 (x2)	University of Arkansas	NSF REU Fellowship	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

FORTHCOMING:

- 8) **Baecher, JA**, D Klimes, L Evans, BR Scheffers. *In prep.* Informing species range shifts with global connectivity layers. Expected: **One Earth**
- 7) Evans, L, **JA Baecher**, J Cullen, C Romagosa, BR Scheffers. *In prep.* An expert elicitation tool for mapping the spatial prevalence and habitat suitability of invasive species. Expected: **Biological Invasions**
- 6) **Baecher, JA**. *In review.* The environmental filtering paradigm and non-filtering community assembly processes. **Journal of Biogeography**
- 5) **Baecher, JA**, D Klimes, L Evans, C Romagosa, R Fletcher, BR Scheffers. *In review.* Simulating what limits the spread of a high-profile invasive predator. **Ecography** | [GITHUB](#)
- 4) DH Klimes, **JA Baecher**, ... BR Scheffers. *In review.* Proximal microclimate: moving beyond spatiotemporal scale to improve predicted biological responses. **Global Ecology and Biogeography**
- 3) Evans, L, **JA Baecher**, BR Scheffers. *In revision.* Invasion risk posed by the pet trade. **Frontiers in Ecology and the Environment**
- 2) Comte, L, ... **JA Baecher**, ... J Lenoir. *In press.* Bringing traits back in the equation: A roadmap to understand species redistribution. **Global Change Biology** | [PREPRINT](#)
- 1) Lawlor, JA, ... **JA Baecher**, ... J Sunday. *In press.* Mechanisms, detections, and impacts of species redistributions under climate change. **Nature Reviews Earth and Environment** | [PREPRINT](#)

PUBLISHED:

- 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** | [HTML](#) | [GITHUB](#) | [Nature Climate Change](#) | [PRESS: Florida Today](#), [USGS](#)
- 8) Basham, EW, **JA Baecher**, DH Klimes, BR Scheffers. **2022.** Vertical stratification patterns of tropical forest vertebrates: A meta-analysis. **Biological Reviews** | [HTML](#) | [GITHUB](#)
- 7) Basham, EW, M Gonzalez-Pinzon, 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** | [HTML](#) | [GITHUB](#)
- 6) Swartwout, M, PN Vogrin, **JA Baecher**, CS Kross, JD Willson. **2020.** Prey Size and Growth Rate do not Influence Trophic Morphology of Juvenile Water Snakes *Nerodia sipedon*. **Herpetologica** | [HTML](#)
- 5) **Baecher, JA**, E Jones, SC Richter. **2020.** Tail bifurcation in two species of *Desmognathus* salamander Caudata: Plethodontidae in southeastern Kentucky, USA. **Herpetological Bulletin** | [HTML](#)
- 4) Hinkson, KM, **JA Baecher**, S Poo. **2019.** Cryopreservation and hormonal induction of spermic urine in the smooth-sided toad *Rhaebo guttatus*. **Cryobiology** | [HTML](#) | [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** | [HTML](#) | [GITHUB](#)
- 2) **Baecher, JA**, PH Vogrin, JC Guzy, CS Kross, JD Willson. **2018.** Herpetofaunal Communities in Restored and Unrestored Remnant Tallgrass Prairie and Associated Wetlands in Northwest Arkansas, USA. **Wetlands** | [HTML](#)
- 1) **Baecher, JA**, PH Vogrin, JC Guzy, JC Neal, JD Willson. **2014.** *Lithobates areolatus*, Predation. **Herpetological Reviews** | [PDF](#)

PRESENTATIONS

SELECTED ONLY EXTERNAL SYMPOSIA: †TALK ‡POSTER

- 30) †JA Baecher, D Klinges, L Evans, BR Scheffers. **2023. Species On The Move. Ft. Myers, FL SLIDES**
- 29) †BR Scheffers, JA Baecher, E Basham. **2023. Species On The Move. Ft. Myers, FL**
- 28) †L Evans, JA Baecher, BR Scheffers. **2023. Species On The Move. Ft. Myers, FL**
- 27) †D Klinges, [...], JA Baecher, [...], BR Scheffers. **2023. Species On The Move. Ft. Myers, FL**
- 26) †L Evans, BR Scheffers, JA Baecher. **2022. Invasive Species Mgmt Association. Ft. Myers, FL**
- 25) †D Klinges, JA Baecher, [...], BR Scheffers. **2022. Microclimate Ecol. Biogeog. Antwerp, Belgium**
- 24) †JA Baecher, BR Scheffers. **2022. BIOSHIFTS. Montpellier, France SLIDES**
- 23) †JA Baecher, L Evans, [...], BR Scheffers. **2022. SERISCC network. Virtual | SLIDES | VIDEO**
- 22) †E Khazan, [...], JA Baecher. **2022. Assoc. for Tropical Biol. and Conserv. Cartagena, Columbia**
- 21) †JA Baecher, [...], BR Scheffers. **2022. Int. Assoc. Landscape Ecol. Virtual | SLIDES | VIDEO**
- 20) †L Evans, 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 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, R, [...], JA Baecher. **2023. Application of connectivity modeling to identify and predict movement and range redistribution. Species On The Move. Bonita Springs, FL USA**
- 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 USA**
- 1) 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 | VIDEO**

GUEST LECTURES AT UNIVERSITY OF FLORIDA:

- 4) JA Baecher. **2021. Achieving connectivity under rapid change. Course: Ecology of Climate Change**
- 3) JA Baecher. **2020. Restoration ecology of grassland herps. Course: Amphibians of the Southeast**
- 2) JA Baecher. **2020. Amphibian diversity and natural history. Course: Amphibians of the Southeast**
- 1) JA Baecher. **2020. Threats to salamander diversity. Course: Amphibians of the Southeast**

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\$4,000	University of Florida	Robin Nadeau Graduate Research Award	2019
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\$5,000	University of Arkansas	NSF REU Fellowship	2012-'13

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, PHD | UNIVERSITY OF FLORIDA

ASSOCIATE PROFESSOR: *Wildlife Ecology and Conservation*

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ROBERT GURALNICK, PHD | UNIVERSITY OF FLORIDA

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

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STEPHEN C RICHTER, PHD | EASTERN KENTUCKY UNIVERSITY

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

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JOHN D ("JD") WILLSON, PHD | UNIVERSITY OF ARKANSAS

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