# J. ALEX BAECHER



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: Gainesville, Florida

# **EDUCATION**

MAY 2024 (expected)

INTERDISCIPLINARY ECOLOGY, PhD | UNIVERSITY OF FLORIDA

DECEMBER 2017

BIOLOGICAL SCIENCES, MSc | EASTERN KENTUCKY UNIVERSITY

MAY 2014

BIOLOGICAL SCIENCES, BSc | UNIVERSITY OF ARKANSAS

## EXPERIENCE

AUGUST 2019 - ...

GRADUATE RESEARCH ASSISTANT (PhD) | 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 (MSc) | 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
<b>\$4,000</b>	UNIVERSITY OF FLORIDA	Robin Nadeau Graduate Research Award	2019
\$195k	UNIVERSITY OF FLORIDA	Graduate School Preeminence Award	2019
\$500	SSAR	Grant-in-Aid of Herpetological Research	2016
\$500	EASTERN KENTUCKY UNIVERSITY	Dep. 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
<b>\$700</b> (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:**

- **6)** Baecher, JA, D Klinges, L Evans, BR Scheffers. *In prep*. Informing species range shifts with global connectivity layers.
- 5) 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.
- 4) DH Klinges, JA Baecher, ... BR Scheffers. In review. Proximal microclimate: moving beyond spatiotemporal scale to improve predicted biological responses. Global Ecology and Biogeography
- 3) 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 | DRAFT
- 2) Evans, L, JA Baecher, BR Scheffers. *In revision*. Invasion risk posed by the pet trade. Frontiers in Ecology and the Environment
- 1) Baecher, JA. *In revision (minor)*. The environmental filtering paradigm and non-filtering community assembly processes. Journal of Biogeography | DRAFT

#### **PUBLISHED:**

- 11) Comte, L, ... JA Baecher, ... J Lenoir. 2024. Bringing traits back in the equation: A roadmap to understand species redistribution. Global Change Biology | HTML
- 10) Lawlor, JA, ... JA Baecher, ... J Sunday. 2024. Mechanisms, detections, and impacts of species redistributions under climate change. Nature Reviews Earth & Environment | PREPRINT
- 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 | CODE | Nature Climate Change | PRESS: 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 | HTML | CODE
- 7) Basham, EW, ... JA Baecher, BR Scheffers. 2022. Large, old trees define the vertical, horizontal, and seasonal distributions of a poison frog. Oecologia | HTML | 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 | 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 | 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 | HTML
- 1) Baecher, JA, PH Vogrinc, JC Guzy, JC Neal, JD Willson. 2014. Lithobates areolatus, Predation. Herpetological Reviews | PDF

# PRESENTATIONS

#### SELECTED ONLY EXTERNAL SYMPOSIA: †TALK \*POSTER

- 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) <sup>†</sup>Evans, L, JA Baecher, BR Scheffers. 2023. Species On The Move. Ft. Myers, FL
- 27) <sup>†</sup>Klinges, DH ... JA Baecher, ... BR Scheffers. 2023. Species On The Move. Ft. Myers, FL
- 26) <sup>‡</sup>Evans, L, BR Scheffers, JA Baecher. 2022. Invasive Species Mgmt Association. Ft. Myers, FL
- 25) <sup>†</sup>Klinges, DH, JA Baecher, ... BR Scheffers. 2022. Microclimate Ecol. Biogeog. Antwerp, Belgium
- 24) <sup>†</sup>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) <sup>†</sup>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) <sup>†</sup>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) <sup>‡</sup>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) <sup>†</sup>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) <sup>†</sup>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) <sup>‡</sup>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. Achieving 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. Amphibian diversity and natural history. Amphibians of the Southeast | SLIDES
- 1) Baecher, JA. 2020. Threats to salamander 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, 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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#### ROBERT J FLETCHER, PhD | UNIVERSITY OF FLORIDA

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#### STEPHEN C RICHTER, PhD | 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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#### JOHN D ("JD") WILLSON, PhD | UNIVERSITY OF ARKANSAS

ASSOCIATE PROFESSOR: Department of Biological Sciences

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