# J. ALEX

# **BAECHER**



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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 Klinges, 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 Klinges, 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 Klinges, 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 | Coverage: 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 | 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 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 | Coverage: 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 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
- 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) <sup>†</sup>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) <sup>†</sup>L Evans, JA Baecher, BR Scheffers. 2023. Species On The Move. Ft. Myers, FL
- 27) <sup>†</sup>D Klinges, [...], JA Baecher, [...], BR Scheffers. 2023. Species On The Move. Ft. Myers, FL
- 26) <sup>‡</sup>L Evans, BR Scheffers, JA Baecher. 2022. Invasive Species Mgmt Association. Ft. Myers, FL
- 25) <sup>†</sup>D Klinges, JA Baecher, [...], BR Scheffers. 2022. Microclimate Ecol. Biogeog. Antwerp, Belgium
- 24) <sup>†</sup>JA Baecher, BR Scheffers. 2022. BIOSHIFTS. Montpellier, France SLIDES
- 23) <sup>†</sup>JA Baecher, L Evans, [...], BR Scheffers. 2022. Southeastern RISCC network. Virtual | SLIDES | VIDEO
- 22) †E Khazan, [...], JA Baecher. 2022. Assoc. for Tropical Biol. and Conserv. Cartagena, Columbia
- 21) <sup>†</sup>JA Baecher, [...], BR Scheffers. 2022. Internat. Assoc. Landscape Ecology. Virtual SLIDES VIDEO
- 20) <sup>†</sup>L Evans, BR Scheffers, JA Baecher. 2022. Collab. Combat the Illegal Trade in Turtles. Virtual
- 19) <sup>†</sup>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) <sup>†</sup>Basham, EW, JA Baecher, [...], BR Scheffers. 2021. European Meet. Students Evol. Biol. Virtual
- 16) <sup>†</sup>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) <sup>†</sup>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) <sup>†</sup>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) <sup>†</sup>Grap, P, S Harrel, [...], JA Baecher. 2018. Assoc. of Southeastern Biologists. Myrtle Beach, SC
- 9) <sup>†</sup>Peters, J, J Koslow, JA Baecher. 2018. Assoc. of Southeastern Biologists. Myrtle Beach, SC
- 8) <sup>†</sup>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) <sup>†</sup>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

# **FUNDING**

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\$4,000	University of Florida	Robin Nadeau Graduate Research Award	2019
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\$700	Society for Freshwater Science	Instars Fellowship	2013-'14
\$5,000	University of Arkansas	NSF REU Fellowship	2012-'13

# **MENTORSHIP**

**EASTERN KENTUCKY UNIVERSITY:** 

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ASHLEY ALBINO ALEX GIBSON KELLEY HOEFER

**RHODES COLLEGE:** 

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**UNIVERSITY OF FLORIDA:** 

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# **PROFESSIONAL REFERENCES**

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#### STEPHEN C RICHTER, PHD | EASTERN KENTUCKY UNIVERSITY

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