

# 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 RESEARCH ASSISTANT** | UNIVERSITY OF FLORIDA

JANUARY 2018 – ...

**CONSERVATION AND RESEARCH TECHNICIAN** | MEMPHIS ZOOLOGICAL SOCIETY

MAY – AUGUST 2017

**NSF REU RESEARCH COORDINATOR** | EASTERN KENTUCKY UNIVERSITY

MAY 2015 – AUGUST 2017

**GRADUATE TEACHING ASSISTANT** | EASTERN KENTUCKY UNIVERSITY

MAY 2015 – AUGUST 2017

**HERPETOLOGICAL COLLECTIONS CURATORIAL ASSISTANT** | EASTERN KENTUCKY UNIVERSITY

JANUARY 2014 – MARCH 2015

**RESEARCH ASSISTANT** | UNIVERSITY OF ARKANSAS

AUGUST 2012 – JANUARY 2014

**RESEARCH TECHNICIAN** | UNIVERSITY OF ARKANSAS

## EXTERNAL REVIEWER

JOURNAL | QTY

**BIOLOGICAL CONSERVATION** | 1

**ECOLOGY AND EVOLUTION** | 1

**HERPETOLOGICAL CONSERVATION AND BIOLOGY** | 2

**HERPETOLOGICAL REVIEW** | 2

**JOURNAL OF NATURAL AREAS** | 2

**WILDLIFE SOCIETY BULLETIN** | 2

## AWARDS

RESEARCH GRANTS, FELLOWSHIPS, OR TRAVEL AWARDS

**\$4,000** | University of Florida, Robin E Nadeau Graduate Research Award (2019)

**\$195,000** | University of Florida, Graduate School Preeminence Award (2019)

**\$500** | Society for the Study of Amphibians and Reptiles Research Grant (2016)

**\$500** | Eastern Kentucky University, Department of Biological Sciences Travel Stipend (2016)

**\$500** | Eastern Kentucky University, Division of Natural Areas Research Grant (2016)

**\$1,100** | Kentucky Academy of Science, Marcia Athey Research Grant (2016)

**\$700** | Society for Freshwater Science, Instars Fellowship (2013)

**\$700** | Society for Freshwater Science, Instars Fellowship (2014)

**\$5,000** | University of Arkansas, NSF REU Fellowship (2012)

**\$5,000** | University of Arkansas, NSF REU Fellowship (2013)

## PUBLICATIONS

### FORTHCOMING (beyond *IN PREP*):

- Patton, Z, B Gross, [JA Baecher](#), LD Densmore III. *In review*. Evaluation of Nuisance Alligator Management in the Southeastern United States and Examination of the Human-Alligator Conflict. *Wildlife Society Bulletin*
- Basham, EW, [...], [JA Baecher](#), BR Scheffers. *In review*. Not all trees are created equal: How some trees forest giants provide keystone structures for poison frogs. *Oecologia*
- Basham, EW, [JA Baecher](#), D Klings, BR Scheffers. *In review*. Vertical stratification patterns of tropical forest vertebrates: A meta-analysis. *Ecology*

### PUBLISHED:

- 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* 76:53 – 60
- [Baecher, JA](#), E Jones, SC Richter. 2020. Tail bifurcation in two species of *Desmognathus* salamander (Caudata: Plethodontidae) in southeastern Kentucky, U.S.A. *Herpetological Bulletin* 150:29 – 30
- 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
- [Baecher, JA](#), SC Richter. 2018. Environmental gradients in an old-growth Appalachian Forest predict fine-scale distribution, co-occurrence, and abundance of woodland salamanders. *Ecol. and Evol.* 8:12940 – 12952
- [Baecher, JA](#), JD Willson, PN Vongrinc, JC Guzy, CS Kross. 2018. Herpetofaunal Communities in Restored and Unrestored Remnant Tallgrass Prairie and Associated Wetlands in Northwest Arkansas, USA. *Wetlands* 38:157 – 169
- [Baecher, JA](#), PN Vogrinc, JC Guzy, JC Neal, JD Willson. 2014. *Lithobates areolatus* (Crawfish Frog). Predation. *Herpetological Review* 45:681 – 682

## PRESENTATIONS

### CONTRIBUTIONS TO EXTERNAL SYMPOSIA:

- Jones, E, [JA Baecher](#), [...], SC Richter. 2019. Association of Southeastern Biologists. *Memphis, TN*
- Hinkson, KM, [JA Baecher](#), S Poo. 2019. Association of Southeastern Biologists. *Memphis, TN*
- [Baecher, JA](#), SB Reichling. 2018. Louisiana Pinesnake Stakeholder Meeting. *Shreveport, LA*
- Jones, E, [JA Baecher](#), [...], SC Richter. 2018. Kentucky Academy of Science. *Bowling Green, KY*
- Gross, BA, Z Patton, [JA Baecher](#), [...]. 2018. 25<sup>th</sup> Crocodile Specialist Group. *Sante Fe, Argentina*
- [Baecher, JA](#), SC Richter. 2018. Joint Meeting of Ichthyologists and Herpetologists. *Rochester, NY*
- Grap, P, S Harrel, [...], [JA Baecher](#). 2018. Association of Southeastern Biologists. *Myrtle Beach, SC*
- Peters, J, J Koslow, [JA Baecher](#). 2018. Association of Southeastern Biologists. *Myrtle Beach, SC*
- [Baecher, JA](#), SC Richter. 2017. University of Kentucky, Center for Ecology, Evolution and Behavior. *Lexington, KY*
- Grap, P, S Harrel, [...], [JA Baecher](#). 2017. Southeastern Fisheries Council Annual Meeting. *Chattanooga, TN*
- [Baecher, JA](#), SC Richter. 2017. SE Partners in Amphibian & Reptile Conservation. *Little Rock, AR*
- Swartwout, M, PN Vogrinc, [JA Baecher](#), [...]. 2016. Joint Meeting of Ichthyologists and Herpetologists. *New Orleans, LA*
- [Baecher, JA](#), PN Vongrinc, JD Willson. 2016. Joint Meeting of Ichthyologists and Herpetologists. *New Orleans, LA*
- [Baecher, JA](#), DR Leasure, [...], DD Magoulick. 2014. Joint Meeting of Aquatic Sciences. *Portland, OR*
- [Baecher, JA](#), DR Leasure, [...], DD Magoulick. 2013. American Fisheries Society. *Little Rock, AR*
- [Baecher, JA](#), J Ortega, SJ Beaupré. 2013. Society for Freshwater Science. *Jacksonville, FL*

### HOSTED WORKSHOPS:

- 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. *Reno, NV*

### CONTRIBUTIONS TO INTERNAL SYMPOSIA:

[UNIVERSITY OF FLORIDA](#) | QTY 5

[EASTERN KENTUCKY UNIVERSITY](#) | QTY 5

[UNIVERSITY OF ARKANSAS](#) | QTY 4

## CURRENT PROFESSIONAL SOCIETIES

JANUARY 2021 – ...

INTERNATIONAL ASSOCIATION OF LANDSCAPE ECOLOGISTS (NORTH AMERICAN CHAPTER)

JANUARY 2020 – ...

ECOLOGICAL SOCIETY OF AMERICA

BRITISH ECOLOGICAL SOCIETY

ECOLOGICAL FORECASTING INITIATIVE

JANUARY 2015 – DECEMBER 2019

AMERICAN SOCIETY OF ICHTHYOLOGISTS AND HERPETOLOGISTS

SOUTHEASTERN PARTNERS IN AMPHIBIAN AND REPTILE CONSERVATION

SOCIETY FOR THE STUDY OF AMPHIBIANS AND REPTILES

JANUARY 2012 – DECEMBER 2014

SOCIETY FOR FRESHWATER SCIENCE

## MENTORSHIP

Natural History & Research Collection Internships:

NATHAN MCGREGOR & ASHLEY ALBINO (2015 – 2016) | EASTERN KENTUCKY UNIVERSITY

BILL HAUGE & MORGAN MATTINGLY (2018 – 2019) | MEMPHIS ZOO

Independent Research Students:

EMILY JONES (2015 – 2017) & ALEX GIBSON (2015 – 2016) | EASTERN KENTUCKY UNIVERSITY

MADELINE ESTES (2018 – 2019) | MEMPHIS ZOO

SIERRA SCAUZILLO (2019 – ...) | UNIVERSITY OF FLORIDA

Research Experience for Undergraduates (REU) Fellows:

MYESHA JAMES & KELLEY HOEFER (2017) | EASTERN KENTUCKY UNIVERSITY

Research Technicians:

ISAAC BENTLY & JASON MARTIN (2015 – 2017) | EASTERN KENTUCKY UNIVERSITY

## PROFESSIONAL REFERENCES

**BRETT R SCHEFFERS, PHD** | ASSISTANT PROFESSOR, WILDLIFE ECOLOGY AND CONSERVATION, UNIVERSITY OF FLORIDA

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**ROB J FLETCHER, PHD** | FULL PROFESSOR, WILDLIFE ECOLOGY AND CONSERVATION, UNIVERSITY OF FLORIDA

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**STEPHEN C RICHTER, PHD** | PROFESSOR, BIOLOGICAL SCIENCES; DIRECTOR, DIVISION OF NATURAL AREAS, EASTERN KENTUCKY UNIVERSITY

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**JOHN D (JD) WILLSON, PHD** | ASSOCIATE PROFESSOR, BIOLOGICAL SCIENCES, UNIVERSITY OF ARKANSAS

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