

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

ECOLOGY AND EVOLUTION | QTY 1

HERPETOLOGICAL CONSERVATION AND BIOLOGY | QTY 1

HERPETOLOGICAL REVIEW | QTY 2

JOURNAL OF NATURAL AREAS | QTY 2

WILDLIFE SOCIETY BULLETIN | QTY 1

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)

\$1,400 | Society for Freshwater Science, Instars Fellowship (awarded twice: 2013 & 2014)

\$10,000 | University of Arkansas, NSF REU Fellowship (awarded twice: 2012 & 2013)

PUBLICATIONS

CONTRIBUTIONS TO PEER REVIEWED JOURNALS:

- Patton, Z, B Gross, [JA Baecher](#), LD Densmore III. *In press*. 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*
- 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 Vongric, 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](#)⁵, 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**. 25th 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 Vongric, 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*
- [Baecher, JA](#), J Ortega, SJ Beaupré. **2013**. Annual Arkansas Water Resource Conference. *Fayetteville, AR*

CONTRIBUTIONS TO INTERNAL SYMPOSIA:

[UNIVERSITY OF FLORIDA](#) | QTY 3

[EASTERN KENTUCKY UNIVERSITY](#) | QTY 5

[UNIVERSITY OF ARKANSAS](#) | QTY 3

WORKSHOPS:

- Expanding the scope of connectivity modeling with Markov chains: perspectives and applications in R. **2021**. North American Regional Association for International Association of Landscape Ecology. *Reno, NV* (Virtual Meeting)

CURRENT PROFESSIONAL SOCIETIES

JANUARY 2020 – ...

ECOLOGICAL SOCIETY OF AMERICA
BRITISH ECOLOGICAL SOCIETY
ECOLOGICAL FORECASTING INITIATIVE

JANUARY 2011 – ...

AMERICAN SOCIETY OF ICHTHYOLOGISTS AND HERPETOLOGISTS
SOUTHEASTERN PARTNERS IN AMPHIBIAN AND REPTILE CONSERVATION
SOCIETY FOR THE STUDY OF AMPHIBIANS AND REPTILES

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 HOFER (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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STEPHEN C RICHTER, PhD | PROFESSOR, BIOLOGICAL SCIENCES; DIRECTOR, DIVISION OF
NATURAL AREAS, EASTERN KENTUCKY UNIVERSITY

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Eastern Kentucky University
Richmond, KY 40475 USA

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

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