

Neumann University  
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## EDUCATION

<b>PhD</b> , Ecology, Minor in Statistics, Pennsylvania State University The causes and consequences of adaptation to a novel invader in the eastern fence lizard Advisor: Dr. Tracy Langkilde	2016
<b>MS</b> , Biological Sciences, University of Alabama Invasion ecology, genetics, and physiology of two anurans in the southeastern United States Advisor: Dr. Leslie Rissler	2011
<b>BS</b> , Biology and Art (Double major), <i>magna cum laude</i> , Davidson College	2004

## ACADEMIC POSITIONS

<b>Assistant Professor of Biology</b> , Neumann University	Current
<b>Visiting Assistant Professor of Biology</b> , Davidson College	2019-2020
<b>NSF Postdoctoral Fellow</b> , University of Rhode Island Broadening Participation of Groups Underrepresented in Biology Mentors: Dr. Jason Kolbe and Dr. Bryan Dewsbury	2017-2019
<b>Postdoctoral Scholar</b> , Kolbe Laboratory, University of Rhode Island	2016-2017
<b>Graduate Teaching Assistant</b> , Department of Biological Sciences, Pennsylvania State University	2013-2016
<b>University Graduate Fellow</b> , Pennsylvania State University	2011-2012
<b>Graduate Teaching Assistant</b> , Department of Biological Sciences, University of Alabama	2009-2011

\*denotes undergraduate coauthor

## PUBLICATIONS

†denotes cover article

Soifer, L.G.\* and **C.J. Thawley**. In Review. Spatial and temporal sampling biases and spatial scale affect species distribution models and applicability to conservation management. *American Journal of Botany*.

Morris, D.G.‡, K. Morris‡, **C.J. Thawley**, J.J. Kolbe, and S.N. Michaelides. In Review. Human-mediated introductions create opportunities for hybridization between closely related *Anolis* lizard species in Florida. *Biological Invasions*.

Kolbe, J.J., H.A. Moniz\*, O. Lapiedra, **C.J. Thawley**. Accepted. Bright lights, big city: an experimental assessment of short-term behavioral and performance effects of artificial light at night on *Anolis* lizards. *Urban Ecosystems*:[10.1007/s11252-021-01098-3](https://doi.org/10.1007/s11252-021-01098-3).

**Thawley, C.J.** and J.J. Kolbe. 2020. Artificial light at night increases growth and reproductive output in *Anolis* lizards. *Proceedings of the Royal Society B* 287:[10.1098/rspb.2019.1682](https://doi.org/10.1098/rspb.2019.1682).

Miller, S.E., L.N. Barrow, S.M. Ehlman, J.A. Goodheart, S.E. Greiman, H.L. Lutz, T.M. Misiewicz, S.M. Smith, M. Tan, **C.J. Thawley**, J.A. Cook, and J.E. Light. 2020. Building natural history collections for the 21st century and beyond. *BioScience*:[10.1093/biosci/biaa069](https://doi.org/10.1093/biosci/biaa069). **Editor's Choice**

Hall, J.M., T.S. Mitchell, **C.J. Thawley**, J.T. Stroud, and D.A. Warner. 2020. Adaptive seasonal shift towards investment in fewer, larger offspring: Evidence from field and laboratory studies. *Journal of Animal Ecology* 287:1242-1253 [10.1111/1365-2656.13182](https://doi.org/10.1111/1365-2656.13182).

Tylan, C., K. Camacho, S. French, S.P. Graham, M.W. Herr\*, J. Jones, G.L. McCormick, M.A. O'Brien\*, J.B. Tennessen, **C.J. Thawley**, A. Webb, and T. Langkilde. 2020. Obtaining plasma to measure baseline glucocorticoid concentrations in reptiles: How quick is quick enough? *General and Comparative Endocrinology* 287:[j.ygcen.2019.113324](https://doi.org/10.1016/j.ygcen.2019.113324).

**Thawley, C.J.**, M. Goldy-Brown\*, G.L. McCormick, S.P. Graham, and T. Langkilde. 2019. Presence of an invasive species reverses latitudinal clines of multiple traits in a native species. *Global Change Biology* 25:620-628. Featured on [NSF's science360.gov](https://www.science360.gov)

**Thawley, C.J.**, H.A. Moniz\*, A.J. Merritt\*, A.C. Battles, S.N. Michaelides, and J.J. Kolbe. 2019. Urbanization affects morphology and parasitism but not thermal preferences in *Anolis* lizards. *Journal of Urban Ecology* 5:juy031. [10.1093/jue/juy031](https://doi.org/10.1093/jue/juy031)

Maurer, A.S., **C.J. Thawley**, A.L. Fireman, S.T. Giery, J.T. Stroud. 2019. Nocturnal activity of Antiguan lizards under artificial light. *Herpetological Conservation and Biology* 14:105-110.

Del Giudice, M., C.L. Buck, L. Chaby, B.M. Gormally, C.C. Taff, **C.J. Thawley**, M.N. Vitousek, and H. Wada. 2018. What is stress?: A systems perspective. *Integrative and Comparative Biology* 58:1019-1032. [10.1093/icb/icy114](https://doi.org/10.1093/icb/icy114)

**Thawley, C.J.** and T. Langkilde. 2017. Attracting unwanted attention: generalization of behavioural adaptation to an invasive predator carries costs. *Animal Behaviour* 123:285-291.

Graham, S.P., N.A. Freidenfelds, **C.J. Thawley**, T.R. Robbins, and T. Langkilde. 2017. Are invasive species stressful? The glucocorticoid profile of native lizards exposed to invasive fire ants depends on the context. *Physiological and Biochemical Zoology* 90:328-337.

**Thawley, C.J.** and T. Langkilde. 2016. Invasive fire ant (*Solenopsis invicta*) predation of eastern fence lizard (*Sceloporus undulatus*) eggs. *Journal of Herpetology* 50:284-288.

Carlson, B.E., **C.J. Thawley**, and S.P. Graham. 2016. Natural history of the valley and ridge salamander (*Plethodon hoffmani*): demography, movement, microhabitats, and abundance. *Herpetological Conservation and Biology* 11:315-327.

<sup>†</sup>Schrey, A.W., T.R. Robbins, J. Lee\*, D. Dukes\*, A. Ragsdale\*, **C.J. Thawley**, and T. Langkilde. 2016. Epigenetic response to environmental change: DNA methylation frequencies and generational transmission vary with invasion status. *Environmental Epigenetics* 2016:1-5.

<sup>†</sup>Herr, M.W.\*., T.R. Robbins, A. Centi\*, **C.J. Thawley**, and T. Langkilde. 2016. Irresistible ants: exposure to novel toxic prey increases consumption over multiple temporal scales. *Oecologia* 181:749-756.

Newman, J.C.\*., **C.J. Thawley**, T. Langkilde. 2014. Red imported fire ant predation on eggs of the eastern fence lizard. *Herpetology Notes* 7:415-418.

## BOOK CHAPTERS

Langkilde, T., **C.J. Thawley**, and T.R. Robbins. 2017. Behavioral adaptations to invasive species: benefits, costs and mechanisms of change. In M. Naguib, J. Podos, L.W. Simmons, L. Barrett, S. Healy, and M. Zuk (Eds.), *Advances in the Study of Behavior* 49:199-235.

## TEACHING EXPERIENCE

<b>Instructor</b> , Ecology with Lab (BIO 233/243), Neumann University	2020
<b>Instructor</b> , Senior Capstone I (BIO 458), Writing Intensive Course, Neumann University	2020
<b>Instructor</b> , Introduction to Environmental Studies (ENV 105), Neumann University	2020

<b>Instructor</b> , General Biology I Lab (BIO 117), Neumann University	2020
<b>Instructor</b> , Biostatistics for Life Scientists (BIO 240), Davidson College	2020
<b>Instructor</b> , Integrating Concepts in Biology II (BIO 114), Davidson College	2019
<b>Instructor</b> , Animal Behavior (BIOL 429), Penn State University	2016
<b>Instructor</b> , Science Outreach and Communication (BIOL 497F), Penn State University	2015
<b>Teaching Assistant</b> , Biology: Basic Concepts and Biodiversity (BIOL 110), Penn State University	2014
<b>Teaching Assistant</b> , Experimental Field Biology (BIOL 450W), Penn State University	2013
<b>Teaching Assistant</b> , Biology: Populations and Communities (BIOL 220W), Penn State University	2013
<b>Teaching Assistant</b> , Honors Organismal Biology Lab (BSC 120), University of Alabama	2011
<b>Teaching Assistant</b> , Field Zoology (BSC 303), University of Alabama	2010
<b>Teaching Assistant</b> , Organismal Biology Lab (BSC 117), University of Alabama	2009, 2010
<b>EFL Teacher</b> , multiple English academies, Madrid, Spain	2005

#### **INVITED LECTURES:**

- *Coping with the Anthropocene: How do lizards respond to environmental change?*, College of Wooster 2019
- *Energy and Nutrients in Ecosystems*, General Biology II (BIO 121), Rollins College 2019
- *Introduction to Bias and Probability*, Seminar in Biostatistics, Davidson College 2019
- *Coping with the Anthropocene: How do lizards respond to environmental change?*, University of Richmond 2018
- *Coping with the Anthropocene: How do lizards respond to environmental change?*, University of Scranton 2018
- *Dealing with rapid environmental change: Lizard life in the Anthropocene*, Loyola Marymount University 2018
- *Adaptation and Heritability*, Principles of Biology Honors (BIO 101H), University of Rhode Island, Active learning section developed with Dr. Bryan Dewsbury 2016
- *Mating systems*, Animal Behavior (BIOL 429), Pennsylvania State University 2012-2014
- *Biological Invasions and Herpetology*, Herpetology (WFS 462), Pennsylvania State University 2013, 2014

#### **TRAINING:**

- Course-based Undergraduate Research Experiences (CURE) Institute, PI: Erin Dolan 2019
- Graduate School Teaching Certificate, Pennsylvania State University 2015
  - Included two semesters of supervised teaching and one semester Course in College Teaching from Schreyer Institute for Teaching Excellence
- Graduate Certificate in Online Teaching, Pennsylvania State University 2015

#### **MENTORING**

- Mentored 18 undergraduate students from Davidson College, Trinity University, the University of Rhode Island, Penn State University, the University of Alabama, and Northeastern University in individual research projects and three honors theses.
- Supervised and mentored groups of 1-3 undergraduate researchers in the field for up to 3 months.

- Coordinated a weekly lab research group for 20 undergraduates covering experimental design, data interpretation, reading scientific literature, and applying to graduate school.
- Collaborated with undergraduate researchers to obtain competitive funding for their research, including a Penn State Summer Discovery Grant (\$5000).
- Mentees have been first authors of two published articles, coauthored two published articles and three natural history notes in peer-reviewed journals.
- Mentees have given four and co-authored five national conference presentations.

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#### AWARDS AND HONORS

Intercollege Graduate Student Outreach Achievement Award, Pennsylvania State University	2016
Huck Endowment Travel Award, Pennsylvania State University	2015
Conference Registration Award, Carl Gans Fund	2015
Ecology Program Travel Grant, Pennsylvania State University	2015
Henri Seibert Award for best student paper in Ecology, Society for the Study of Amphibians and Reptiles	2014
Excellence in Teaching by a Master's Student, Graduate School, University of Alabama	2011
Outstanding Teaching by a Graduate Student, College of Arts & Sciences, University of Alabama	2011
Outstanding Teaching by a Graduate Student, Dept. of Biological Sciences, University of Alabama	2011
Dean's Merit Award, University of Alabama	2008-2010
Graduate Council Fellowship, University of Alabama	2008-2009

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#### FUNDING

National Science Foundation, Postdoctoral Research Fellowship in Biology (PRFB), "Ecological costs and consequences of artificial light at night." (\$138000)	2017-2019
National Science Foundation, IOS, Senior personnel. "Bright lights, big city: linking the physiological effects and ecological costs of artificial light at night in <i>Anolis lizards</i> ." Full proposal invited, but not submitted due to acceptance of PRFB.	2017
J. Lloyd Huck Dissertation Research Award, Pennsylvania State University (\$5000)	2014
ARCS Scholar Grant, ARCS Foundation (\$15000)	2011-2013
National Science Foundation, REU supplement to LiT – "Ecology and evolution of adaptive responses to rapid global change," DEB 0949483. Co-advisor with Tracy Langkilde (\$7470)	2012
Gaige Award, American Society of Ichthyologists and Herpetologists (\$500)	2010
Walter F. Coxe Research Grant, Birmingham Audubon Society (\$800)	2010
Research Grant, University of Alabama Graduate School (\$600)	2010
Research/Travel Fund Grant, University of Alabama Graduate Student Association (\$200)	2009
Intramural Research Grant, Davidson College Department of Biology (\$560)	2004

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#### SERVICE

##### OUTREACH:

Lizards on the Loose citizen science project, Fairchild Tropical Botanic Garden	2016-2020
• Coordinator of a citizen science program reaching over 1100 students in >45 Miami-Dade County schools that serve students from underrepresented groups.	

- Expanded program to use the iNaturalist platform and reach high school students

University of Rhode Island 2016-2019

- Seeds of Success, mentor for a minority student-led STEM organization
- SMILE program, STEM program for underprivileged public school students

Penn State University Outreach, designed and presented assorted programs 2011-2016

- Exploration-U, a Penn-State organized, community STEM program for K-8<sup>th</sup> graders,
- Expanding Your Horizons: STEM Career Day for Girls for 6-8<sup>th</sup> graders
- Think Outside the Beaker, a weekly STEM after-school program for 6-8<sup>th</sup> graders
- The Great Insect Fair, an annual entomology fair drawing 5000 attendees

The Evolving Project STEM activity, USA Science and Engineering Festival 2014, 2016

- Assisted in design and presentation of iPad app-tivity focused on evolution (>1600 participants)

Upward Bound, Penn State University 2014

- Worked with high school students from low-income families to design and implement a research project

Discovery Space of Central PA, State College PA 2012

- Designed and presented hands-on reptile and amphibian education programs

Rissler Lab CAARE program (group outreach), University of Alabama 2008-2011

- Designed presentations on amphibian and reptile diversity including live animal demonstrations
- Presented to K-12 students (>1000/year), conservation organizations, teacher workshops, and at public events

#### ACADEMIC:

- Diversity Committee, College of Environment and Life Sciences, University of Rhode Island 2016-2019
- Climate & Diversity subcommittee, Eberly College of Science, Penn State University 2014-2016
  - Developed best practices for faculty advisor/graduate student relationships
- Graduate Student Representative, Ecology Program Committee, Penn State University 2014-2015
- Volunteer Judge, Penn State Undergraduate Research Exhibition 2012-2016
- Graduate Student/Faculty Liaison, Biology Department, Penn State University 2014-2015
- Frank A. Andersen Award Representative, Ecology Program, Penn State University 2011-2012

#### PEER REVIEWER:

Biological Invasions (**Associate Editor**), Nature Ecology & Evolution, Functional Ecology, Ecology and Evolution, PLoS One, Oecologia, General and Comparative Endocrinology, Biological Journal of the Linnean Society, Evolutionary Ecology, PeerJ, Journal of Zoology, Ethology, Journal of Herpetology, Austral Ecology, Phylomedusa, Herpetological Review, Herpetological Conservation and Biology, Journal of North American Herpetology, Southeastern Naturalist

#### PROFESSIONAL AFFILIATIONS:

- Society for Integrative and Comparative Biology 2012-2021
- Society for the Study of Amphibians and Reptiles 2010-2021
- American Society of Ichthyologists and Herpetologists 2010-2021

\* undergraduate coauthor

#### CONFERENCE PRESENTATIONS (SELECTED)

Thawley, C.J. and J.J. Kolbe. 2021. Seeing lizards in a new light: How does artificial light at night impact anoles? *SICB annual meeting*. Oral presentation.

**Thawley, C.J.**, A.L. Kostka\*, and J.J. Kolbe. 2020. Ecology by the people: How can citizen science inform our understanding of lizard ecology? *SICB annual meeting*. Poster presentation.

**Thawley, C.J.** and J.J. Kolbe. 2019. Cities in the spotlight: Does tolerance of artificial light at night promote urban invasions? *Evolution annual meeting*. Poster presentation.

**Thawley, C.J.**, J.M. Hall, and J.J. Kolbe. 2019. Turn up the lights in here: Impacts of artificial light at night on anoles. *Society for Integrative and Comparative Biology annual meeting*. Oral presentation.

**Thawley, C.J.** and J.J. Kolbe. 2018. A trick of the light: Impacts of human-produced light at night on anoles. *Joint Meeting of Ichthyologists and Herpetologists*. Oral presentation.

**Thawley, C.J.** and J.J. Kolbe. 2018. Let there be light: widespread use of human-produced light at night by anoles and its consequences. *Anolis Symposium VII*. Oral presentation.

**Thawley, C.J.**, A.C. Battles, H.A. Moniz, A. Merritt\*, and J.J. Kolbe. 2017. Lizards in the big city: impacts of urbanization on morphology, thermal preference, and parasitism in *Anolis* lizards. *Society for Integrative and Comparative Biology annual meeting*. Oral presentation.

**Thawley, C.J.** and T. Langkilde. 2016. Invasive fire ant predation of Eastern fence lizard (*Sceloporus undulatus*) eggs. *Joint Meeting of Ichthyologists and Herpetologists*. Oral presentation.

Tylan, C.K., Camacho, S. Graham, M. Herr†\*, J. Jones, G. McCormick, M. O'Brien\*, J. Tennesen, **C.J. Thawley**, T. Langkilde. 2016. Collecting baseline corticosterone samples in reptiles and amphibians: is under 3 minutes good enough? *Joint Meeting of Ichthyologists and Herpetologists*. Oral presentation.

**Thawley, C.J.**, M. Goldy-Brown\*, G.L. McCormick, S. Graham, and T. Langkilde. 2016. Invasion of a novel predator reverses latitudinal gradients of multiple traits in a native lizard. *Society for Integrative and Comparative Biology annual meeting*. Oral presentation. *Huey Award finalist*.

Herr, M.W.\*., T.R. Robbins, A. Centi\*, **C.J. Thawley**, and T. Langkilde. 2015. Exposure to novel toxic prey on multiple temporal scales has persistent effects on behavior of eastern fence lizards. *Society for the Study of Amphibians and Reptiles annual meeting*. Oral presentation.

**Thawley, C.J.**, M. Goldy-Brown\*, G.L. McCormick, S. Graham, and T. Langkilde. 2015. An invasive predator, the red imported fire ant, alters latitudinal gradients of multiple traits in a native lizard. *Evolution annual meeting*. Oral presentation. *Hamilton Award finalist*.

**Thawley, C.J.**, T.R. Robbins, N.A. Freidenfelds, and T. Langkilde. 2015. Attracting unwanted attention: the costs and benefits of adaptation to an invasive predator. *Society for Integrative and Comparative Biology annual meeting*. Oral presentation. *Huey Award finalist*.

**Thawley, C.J.**, T.R. Robbins, N.A. Freidenfelds, and T. Langkilde. 2014. The costs and benefits of adaptation: A case study using native fence lizards and invasive fire ants. *Joint Meeting of Ichthyologists and Herpetologists*. Oral presentation. *Henri Seibert Award winner*.

Goldy-Brown, M. \*, T. Langkilde and **C.J. Thawley**. 2014. The effects of red imported fire ant venom on whole body performance and hemolysis of Eastern fence lizards, *Sceloporus undulatus*. *Joint Meeting of Ichthyologists and Herpetologists*. Poster.

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\*undergraduate coauthor

**ADDITIONAL PUBLICATIONS**

‡citizen scientist coauthor

**NATURAL HISTORY AND DISTRIBUTIONAL NOTES:**

Lapiedra, O. and **C.J. Thawley**. 2019. *Anolis stratulus* (Barred Anole). Nocturnal foraging activity. *Herpetological Review* 50:363.

**Thawley, C.J.** 2019. *Anolis cristatellus* (Puerto Rican Crested Anole) and *Anolis sagrei* (Brown Anole). Interspecific mating. *Herpetological Review* 50:362.

Simpson, S.E., <sup>‡</sup> S.T. Giery, J.T. Stroud, and **C.J. Thawley**. 2019. *Anolis sagrei* (Brown anole). Predation. *Herpetological Review* 50:362-363.

Barbato, J. <sup>‡</sup> and **C.J. Thawley**. 2018. Geographic distribution: *Anolis distichus*. *Herpetological Review* 49:714.

Campbell, N. <sup>‡</sup>, **C.J. Thawley**, and J.T. Stroud. 2018. *Anolis cristatellus* (Puerto Rican Crested Anole). Cannibalism. *Herpetological Review*. 49:115-116.

**Thawley, C.J.** and J.T. Stroud. 2017. Geographic distribution: *Phelsuma grandis*. *Herpetological Review* 48:812.

**Thawley, C.J.**, A.C. Battles, S.N. Michaelides, and J.J. Kolbe. 2017. *Anolis equestris* (Cuban Knight Anole). Prey. *Herpetological Review*. 48:183-184.

**Thawley, C.J.**, M.W. Herr,\* and S.P. Graham. 2016. *Pantherophis guttatus* (Red Cornsnake): defensive behavior. *Herpetological Review* 47:151-152.

**Thawley, C.J.** and F. Graves. 2015. Geographic distribution: *Gyrinophilus porphyriticus*. *Herpetological Review* 46:210.

**Thawley, C.J.** and F. Graves. 2014. Geographic distribution: *Plestiodon fasciatus*. *Herpetological Review* 45:661.

**Thawley, C.J.** and F. Graves. 2014. Geographic distribution: *Plestiodon laticeps*. *Herpetological Review* 45:661.

**Thawley, C.J.** and M.W. Herr\*. 2014. Geographic distribution: *Plestiodon laticeps*. *Herpetological Review* 45:661.

**Thawley, C.J.** and F. Graves. 2014. Geographic distribution: *Sceloporus undulatus*. *Herpetological Review* 45:662.

**Thawley, C.J.** and F. Graves. 2014. Geographic distribution: *Pantherophis guttatus*. *Herpetological Review* 45:665.

**Thawley, C.J.** and F. Graves. 2014. Geographic distribution: *Alligator mississippiensis*. *Herpetological Review* 45:279.

**Thawley, C.J.** and F. Graves. 2014. Geographic distribution: *Trachemys scripta scripta*. *Herpetological Review* 45:281.

**Thawley, C.J.** and F. Graves. 2014. Geographic distribution: *Anolis carolinensis*. *Herpetological Review* 45:282.

**Thawley, C.J.** and F. Graves. 2014. Geographic distribution: *Sceloporus undulatus*. *Herpetological Review* 45:283.

**Thawley, C.J.** 2014. *Coluber constrictor* (North American racer): Egg predation. *Herpetological Review* 45:142.

**Thawley, C.J.** 2013. Geographic distribution: *Chrysemys picta*. *Herpetological Review* 44:622-623.

**Thawley, C.J.** 2013. Geographic distribution: *Plestiodon fasciatus*. *Herpetological Review* 44:626.

**Thawley, C.J.** and B.E. Carlson. 2013. Geographic distribution: *Hyla versicolor*. *Herpetological Review* 44:621.

**Thawley, C.J.**, G.L. McCormick and S.P. Graham. 2013. Geographic distribution: *Crotalus horridus*. *Herpetological Review* 44:628.

**Thawley, C.J.**, G.L. McCormick and S.P. Graham. 2013. Geographic distribution: *Heterodon platirhinos*. *Herpetological Review* 44:476.

**Thawley, C.J.**, G.L. McCormick and S.P. Graham. 2013. Geographic distribution: *Opheodrys aestivus*. Herpetological Review 44:477.

**Thawley, C.J.** 2012. Geographic distribution: *Eleutherodactylus planirostris*. Herpetological Review 43:298.

Newman, J.C.\* , G.C. Brooks\*, and **C.J. Thawley**. 2012. Geographic distribution: *Deirochelys reticularia*. Herpetological Review 43:615.

**Thawley, C.J.** and S.P. Graham. 2012. Geographic distribution: *Eurycea chamberlaini*. Herpetological Review 43:296.

**Thawley, C.J.** 2011. Geographic distribution: *Anolis (Norops) sagrei*. Herpetological Review 42:239-240.

**Thawley, C.J.** 2010. Geographic distribution: *Hemidactylus turcicus*. Herpetological Review 41:378.

Stevenson, D.J., J.G. Palis, A.D. Walde, A.B. Safer and **C.J. Thawley**. 2009. New distributional records for Georgia amphibians and reptiles. Herpetological Review 40: 24.

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#### REFERENCES

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