

John David Curlis, Jr.
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Education

- 2018 – present **Ph.D. in Ecology and Evolutionary Biology**
University of Michigan, Ann Arbor, MI
- 2015 – 2017 **M.S. in Biology**
Georgia Southern University, Statesboro, GA
- 2011 – 2014 **B.A. in Biology**
Specialization in Biological and Environmental Conservation
University of Virginia, Charlottesville, VA

Awards

- 2019 Program in Biology Teaching Excellence Award, *University of Michigan*
- 2018 Program in Biology Teaching Excellence Award, *University of Michigan*
- 2017 Jack N. Averitt Award for Excellence in Graduate Research, *Georgia Southern University* (\$1000)

Grants & Fellowships

- 2019 STRI Short-term Fellowship, *Smithsonian Tropical Research Institute* (\$3,500)
Charles F. Walker Scholarship, *University of Michigan Museum of Zoology* (\$3,058)
Tinker Field Research Grant, *University of Michigan Center for Latin American and Caribbean Studies* (\$2,200)
Rackham Pre-Candidate Research Grant, *University of Michigan Rackham Graduate School* (\$1,500)
Departmental Research Award, *University of Michigan Department of Ecology and Evolutionary Biology* (\$250)
Rackham Conference Travel Grant, *University of Michigan Rackham Graduate School* (\$1,300)
Departmental Travel Award, *University of Michigan Department of Ecology and Evolutionary Biology* (\$400)
Charlotte Mangum Student Support, *Society for Integrative and Comparative Biology* (\$115)
- 2018 Rackham Conference Travel Grant, *University of Michigan Rackham Graduate School* (\$800)
Departmental Travel Award, *University of Michigan Department of Ecology and Evolutionary Biology* (\$400)
- 2017 Theodore Roosevelt Memorial Fund, *American Museum of Natural History* (\$2,500)
Graduate Student Professional Development Fund, *Georgia Southern University College of Graduate Studies* (\$850)
Charlotte Mangum Student Support, *Society for Integrative and Comparative Biology* (\$99)

- 2016 Graduate Student Professional Development Fund, *Georgia Southern University College of Graduate Studies* (\$1,475)
 Margaret Walton Scholarship, *Mountain Lake Biological Station* (\$400)
 Conference Travel Support, *Evolution* (\$150)
 Charlotte Mangum Student Support, *Society for Integrative and Comparative Biology* (\$99)
- 2015 Graduate Student Professional Development Fund, *Georgia Southern University College of Graduate Studies* (\$602)

Peer-Reviewed Journal Publications

- In prep.* **J. D. Curlis**, I. A. Holmes, T. J. Renney, A. Davis Rabosky, and C. L. Cox. Evolutionary linkage of mimetic and non-mimetic color traits in a coral snake mimicry complex.
- In prep.* **J. D. Curlis**, C. L. Cox, and R. M. Cox. Sex-specific population differences in metabolism are associated with intraspecific variation in sexual size dimorphism in brown anole lizards.
- In review* L. K. Neel, **J. D. Curlis**, C. T. Kinsey, C. L. Cox, and L. D. McBrayer. Acclimation in the physiological performance of an introduced ectotherm. *Journal of Experimental Biology* (Accepted with revisions).
- In review* L. Neel, M. Logan, D. Nicholson, C. Miller, A. Chung, I. Maayan, Z. Degon, M. DuBois, **J. D. Curlis**, Q. Taylor, K. Keegan, O. McMillan, J. Losos, and C. Cox. Habitat structure mediates vulnerability to climate change through its effects on thermoregulatory behavior. *Ecological Monographs* (Submitted).
- In review* A. Rosso, D. Nicholson, M. Logan, A. Chung, **J. D. Curlis**, Z. Degon, R. Knell, T. Garner, W. O. McMillan, C. L. Cox. Sex-biased parasitism and expression of a sexual signal in a tropical forest lizard. *Functional Ecology* (Submitted).
- 2018 M. L. Logan, **J. D. Curlis**, A. L. Gilbert, D. B. Miles, A. K. Chung, J. W. McGlothlin, and R. M. Cox. Thermal physiology and thermoregulatory behaviour exhibit low heritability despite genetic divergence between lizard populations. *Proceedings of the Royal Society B*, 285(1878): 2018097.
- 2017 **J. D. Curlis**, R. Davis, E. Zetkovic, and C. L. Cox. Condition dependence of shared traits differs between sympatric *Anolis* lizards. *Journal of Experimental Zoology Part A*, 327: 110-118.
- 2016 **J. D. Curlis**, D. C. Macklem, R. Davis, and C. L. Cox. Sex-specific antipredator response to auditory cues in the black spiny-tailed iguana. *Journal of Zoology*, 299(1): 68-74.

Natural History & Geographic Distribution Notes

- In prep.* **J. D. Curlis**, E. Fisher, K. Muhic, J. Moy, M. Garro Cruz, and J. J. Montero Ramirez. A field survey of the reptiles and amphibians in San Luis de Monteverde, Costa Rica.
- In review* G. Lonsdale, **J. D. Curlis**, T. W. Brown, and T. Martin. Natural history note: Predation of worm salamander *Oedipina tomasi* (Plethodontidae) by the snake *Rhadinella montecristi* (Dipsadinae) in Cusuco National Park, Honduras. *Herpetological Review* (Accepted).

- 2019 **J. D. Curlis**, M. A. Hirst, and M. D. Baiz. Second observation of *Dermatemys mawii* in the upper Yucatán peninsula: a new population or an old individual? *The Herpetological Bulletin*, 149: 47-48.
- 2018 T. W. Brown, **J. D. Curlis**, G. Lonsdale, C. Thorpe, and A. Hoad. Color change in the gorgetal scales of an anole, *Anolis amplisquamosus* (Squamata: Dactyloidae). *IRCF Reptiles & Amphibians*, 25(2): 127-128.
- 2017 **J. D. Curlis** and D. C. Macklem. Geographic distribution note: *Agalychnis spurrelli*. *Herpetological Review*, 48(3): 582-583.

Conference Presentations

- 2020 **J. D. Curlis**, A. Davis Rabosky, O. McMillan, C. L. Cox, and M. Logan. Experimentally testing the evolutionary drivers of a colorful signal in *Anolis* lizards. Oral presentation, *World Congress of Herpetology*, Dunedin, New Zealand.
- 2019 **J. D. Curlis**, I. A. Holmes, A. Davis Rabosky, and C. L. Cox. Evolutionary linkage of mimetic and non-mimetic color traits in a coral snake mimicry complex. Oral presentation, *Society for Integrative and Comparative Biology*, Tampa, Florida, USA. *Finalist for Raymond B. Huey Best Student Presentation Award in Division of Ecology and Evolution.
- 2017 **J. D. Curlis**, I. A. Holmes, A. Davis Rabosky, and C. L. Cox. Spatial variation of mimetic and non-mimetic color polymorphism in the western ground snake. Poster presentation, *Society for Integrative and Comparative Biology*, New Orleans, Louisiana, USA.
- 2016 **J. D. Curlis**, R. Davis, E. Zetkovic, and C. L. Cox. Condition dependence of shared traits differs between sympatric *Anolis* lizards. Poster presentation, *Society for the Study of Evolution*, Austin, Texas, USA.
- 2016 **J. D. Curlis**, C. L. Cox, and R. M. Cox. Sex-specific population differences in metabolism are associated with intraspecific variation in sexual size dimorphism in brown anole lizards. Poster presentation, *Society for Integrative and Comparative Biology*, Portland, Oregon, USA.

Courses Taught

- 2019 **Introduction to Evolution, Genetics, and Ecology** (BIO 171), Graduate Student Instructor, *University of Michigan*
- 2018 **Introduction to Evolution, Genetics, and Ecology** (BIO 171), Graduate Student Instructor, *University of Michigan*
- 2017 **Tropical Field Ecology in Costa Rica** (ECOL 3100), Teaching Assistant, *University of Georgia*
Tropical Ecology Lab in Costa Rica (ECOL 3510), Teaching Assistant, *University of Georgia*
Herpetology (BIOL 5445), Teaching Assistant, *Georgia Southern University*
- 2016 **Field Herpetology** (BIOL 4754), Teaching Assistant, *Mountain Lake Biological Station, University of Virginia*
Environmental Biology Lab (BIOL 1210), Teaching Assistant, *Georgia Southern University*
- 2015 **Environmental Biology Lab** (BIOL 1210), Teaching Assistant, *Georgia Southern University*

Guest Lectures

- 2017 **Principles of Physiology** (BIOL 3131) at *Georgia Southern University*
2016 **Wildlife Biology** (BIOL 5530) at *Georgia Southern University*
Field Biology (BIOL 3440) at *Georgia Southern University*

Reviewer Service

Journal of Natural History, Journal of Herpetology

Membership in Professional Societies

Society for Integrative and Comparative Biology, Society for the Study of Evolution

Volunteer, Internship, & Outreach Experience

- 2018 **Snake specialist** for *Operation Wallacea*. Led students on herpetological surveys, gave lectures on coral snake biology and mimicry, and served as venomous snake handler/relocator in Cusuco National Park, Honduras.
- 2018 **Resident naturalist intern** at the *University of Georgia Costa Rica* campus. Led guided natural history walks and gave natural history focused lectures to student groups and eco-tourists in Monteverde, Costa Rica.
- 2017 **Presenter** at Sustainability Showcase, *Georgia Southern University*. Gave poster presentation on results of the Georgia Southern Vertebrate Biodiversity Survey to the public.
- 2016 – 2017 **Reptile and amphibian ambassador** at STEMfest, *Georgia Southern University*. Taught children about reptiles and amphibians and facilitated holding and/or touching of captive snakes and lizards.
- 2014 **Insect ambassador** at Kid*Vention, *Virginia Discovery Museum*. Taught children about invertebrates and facilitated holding and/or touching of captive insects.

Fieldwork

- 2017 – present **Gamboa and Lake Gatun, Panama**, Project Leader
Capturing *Anolis* lizards, measuring morphological/physiological traits
Quantifying light environments
- 2019 **BFREE Field Station, Belize**, Assistant
Capturing reptiles and amphibians, measuring morphological traits
Taking museum-grade voucher photographs of all specimens captured
- 2018 **Cusuco National Park, Honduras**, Project Leader
Creating, deploying, and monitoring clay models of coral snakes/mimics
- 2018 **San Luis, Monteverde, Costa Rica**, Project Leader
Planning, directing, and conducting a survey of reptiles and amphibians
- 2016 – 2017 **Statesboro, Georgia, USA**, Project Leader
Capturing, trapping, and/or surveying all vertebrate species on campus
- 2016 **Missouri and New Mexico, USA**, Project Leader
Capturing and measuring *Sonora* snakes
Salvaging roadkill reptiles and preparing them for museum accession
- 2015 – 2016 **West Palm Beach, Florida, USA**, Project Leader
Capturing *Leiocephalus* lizards, measuring sprint speed and bite force

- 2015 **Charlotte, North Carolina, USA**, Assistant
Mist-netting and banding Northern Cardinals in an urban setting
- 2014 **Costa Rica**, Study Abroad Student, Project Leader, and Assistant
Capturing *Anolis* lizards, measuring morphological traits and sprint speeds
Testing behavioral responses of iguanas to predator sounds
Capturing toads, measuring endurance, estimating immune function
- 2014 **Palm Coast, Florida, USA**, Assistant
Capturing *Anolis* lizards, measuring morphological traits
- 2012 **San Salvador, Bahamas**, Study Abroad Student and Project Leader
Capturing brittle stars, recording phototactic behavioral responses

Photography Achievements

- 2019 First place and honorable mention in Department Photographer at Large Competition, *University of Michigan Department of Ecology and Evolutionary Biology*
First place in International Institute Photo Contest (Go Blue! category), *University of Michigan International Institute* (\$200)
Photo selected for display at the Global Photo Showcase, *University of Michigan Global Engagement Office*
- 2018 First place, second place, and honorable mention in Department Photographer at Large Competition, *University of Michigan Department of Ecology and Evolutionary Biology*
Two photos selected in OTS Experience Photo Contest, *Organization for Tropical Studies*
- 2017 Cover image, *Journal of Evolutionary Biology*, Volume 30 Issue 7
Photo selected for Wildlife Photo of the Day, *Natural Habitat Adventures*
Photo selected for Photos from the Field competition, *Indigo Magazine, Orianne Society*
- 2016 Photo selected for Wildlife Photo of the Day, *Natural Habitat Adventures*
Photo selected for Photos from the Field competition, *Indigo Magazine, Orianne Society*
- 2015 Cover image, *Amigos Newsletter, Organization for Tropical Studies*, No. 83

Interests

Avid naturalist and vertebrate life-lister. Current species totals: 13 cartilaginous fishes, 261 ray-finned fishes, 227 reptiles, 141 amphibians, 1030 birds, and 132 mammals.