

R. GRAHAM REYNOLDS

Address: Department of Biology
University of North Carolina Asheville
One University Heights, Asheville NC 28804

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EDUCATION

Ph.D. 2011 University of Tennessee Knoxville, Ecology & Evolutionary Biology
(Advisor: Benjamin M. Fitzpatrick)

B.A. 2004 Duke University, Biology, (Advisor: Susan C. Alberts)

PROFESSIONAL APPOINTMENTS

2017– Associate, Museum of Comparative Zoology, Harvard University

2016– Assistant Professor, University of North Carolina Asheville, Department of Biology

2014–2016 Postdoctoral Fellow, Harvard University, Department of Organismic and Evolutionary Biology & Museum of Comparative Zoology (Mentor: Jonathan B. Losos)

2011–2014 Postdoctoral Research Associate, University of Massachusetts Boston, Department of Biology (Mentor: Liam J. Revell)

OTHER APPOINTMENTS

2017– Deputy Chair, IUCN SSC Anoline Lizard Specialist Group

AWARDS, SCHOLARSHIPS, & FELLOWSHIPS

2015 Harvard University, Postdoctoral Award for Professional Development

2013–2014 Harvard University, Visiting Fellowship (declined)

2011 University of Tennessee Science Alliance Graduate Student Award

2009–2010 American Philosophical Society Lewis and Clark Field Scholar

2008–2009 University of Tennessee W.K. McClure Scholar

2003–2004 Duke University Howard Hughes Fellow in the Biological Sciences

PUBLICATIONS

Symbol Legend: **Undergraduate Mentee *Graduate Mentee †equal authorship

In Revision Quach*, Q.N., **R.G. Reynolds**, and L.J. Revell. Historical allopatry and secondary contact or primary intergradation in the Puerto Rican Crested Anole, *Anolis cristatellus*, on Vieques Island. In revision at *Biological Journal of the Linnean Society*.

- In Press **Reynolds[†], R.G.**, T.R. Strickland^{**†}, J.J. Kolbe, B.G. Falk, G. Perry, L.J. Revell, and J.B. Losos. Archipelagic genetics in a widespread Caribbean anole. *Journal of Biogeography* [doi]
- In Press **Reynolds, R.G.**, and S.T. Giery. Amphibians of the Bahamas and Turks and Caicos Islands. In: Heatwole, H., and N. Ríos-López (eds) *Amphibian Biology* Vol. 9, Part 4.
- 2017 **Reynolds, R.G.** Book review: Natural History of Neotropical Treeboas (Genus *Corallus*). *Copeia* 105: 164-178. [doi]
- 2016 **Reynolds, R.G.**, S.T. Giery, W. Jesse^{*}, and Q. Quach^{*}. Preliminary assessment of road mortality in the Northern Bahamas Boa, *Chilabothrus exsul*. *Caribbean Naturalist* 34: 1–10. [doi]
- 2016 **Reynolds, R.G.**, D.C. Collar, S.A. Pasachnik, M.L. Niemiller, A.R. Puente-Rolón, and L.J. Revell. Ecological specialization and morphological diversification in Greater Antillean boas. *Evolution* 70: 1882–1895. [doi]
- 2016 Winchell^{*}, K.M., **R.G. Reynolds**, S. Prado-Irwin^{**}, A.R. Puente-Rolón, and L.J. Revell. Phenotypic shifts in urban areas in the tropical lizard *Anolis cristatellus*. *Evolution* 70: 1009–1022. [doi] [Cover Article]
- 2016 **Reynolds, R.G.**, A.R. Puente-Rolón, K.J. Aviles-Rodriguez^{*}, A.J. Geneva, and N.C. Herrmann^{*}. Discovery of a remarkable new boa from the Conception Island Bank, Bahamas. *Breviora* 549: 1–19. [doi]
- 2016 Siliceo-Cantero, H.H., A. García, G. Pacheco, **R.G. Reynolds**, and B.C. Lister. Dimorphism and divergence in island and mainland anoles. *Biological Journal of the Linnean Society* 118: 852–872. [doi]
- 2016 Niemiller, M.L., B.M. Glorioso, D.B. Fenolio, **R.G. Reynolds**, S.J. Taylor, and B.T. Miller. Growth, survival, longevity, and population size of the Big Mouth Cave Salamander (*Gyrinophilus palleucus necturoides*) from the type locality in Grundy Co., Tennessee, USA. *Copeia* 2016: 35–41. [doi]
- 2015 Bushar, L.M., **R.G. Reynolds**, S. Tucker, L.C. Pace, W.I. Lutterschmidt, R.A. Odum, and H.K. Reinert. Genetic characterization of an invasive *Boa constrictor* population on the Caribbean island of Aruba. *Journal of Herpetology* 49: 602–610. [doi]
- 2015 Winchell^{*}, K.M., P. Muralidhar^{*}, J.R. Fredette^{**}, and **R.G. Reynolds**. New herpetofaunal records for Great Isaac Cay, Bimini Group, Bahamas. *IRCF Reptiles & Amphibians: Conservation and Natural History* 22: 106–110.
- 2015 **Reynolds, R.G.**, A.R. Puente-Rolón, R. Platenberg, R.K. Tyler^{**}, P.J. Tolson, and L.J. Revell. Large divergence and low diversity suggest genetically informed conservation strategies

- for the endangered Virgin Islands boa (*Chilabothrus monensis*). ***Global Ecology and Conservation*** 3: 487–502. [[doi](#)]
- 2015 Revell, L.J., D.L. Mahler, **R.G. Reynolds**, and G.J. Slater. Placing cryptic, recently extinct, or hypothesized taxa into an ultrametric phylogeny using continuous character data: a case study with the lizard *Anolis roosevelti*. ***Evolution*** 69: 1027–1035. [[doi](#)]
- 2014 Stuart, Y.E., T.S. Campbell, P.A. Hohenlohe, **R.G. Reynolds**, L.J. Revell, and J.B. Losos. Rapid evolution of a native species following invasion by a congener. ***Science*** 346: 463–466. [[doi](#)]
- 2014 Pyron, R.A, **R.G. Reynolds**, and F.T. Burbrink. A taxonomic revision of boas (Serpentes: Boidae). ***Zootaxa*** 3846: 249–260. [[doi](#)]
- 2014 **Reynolds, R.G.**, M.L. Niemiller, and L.J. Revell. Toward a Tree-of-Life for the boas and pythons: multilocus species-level phylogeny with unprecedented taxon sampling. ***Molecular Phylogenetics and Evolution*** 71: 201–213. [[doi](#)]
- 2014 **Reynolds, R.G.**, A.R. Puente-Rolón, M. Barandiaran, and L.J. Revell. Hispaniolan Boa (*Chilabothrus striatus*) on Vieques Island, Puerto Rico. ***Herpetology Notes*** 7: 121–122. [[doi](#)]
- 2014 **Reynolds, R.G.**, A.R. Puente-Rolón, K. Kolodzaike**, and T. Butler-Smith**. Isolation and characterization of 23 novel polymorphic microsatellite markers from the endangered Puerto Rican boa (*Chilabothrus inornatus*) using paired-end Illumina shotgun sequencing. ***Conservation Genetics Resources*** 6: 107–109. [[doi](#)]
- 2013 **Reynolds, R.G.**, M.L. Niemiller, S.B. Hedges, A. Dornburg, A.R. Puente-Rolón, and L.J. Revell. Molecular phylogeny and historical biogeography of West Indian boid snakes (*Chilabothrus*). ***Molecular Phylogenetics and Evolution*** 68: 461–470. [[doi](#)]
- 2013 Puente-Rolón[†], A.R., **R.G. Reynolds[†]**, and L.J. Revell. Preliminary genetic analysis supports cave populations as targets for conservation in the endemic, endangered Puerto Rican boa (Boidae: *Epicrates inornatus*). ***PLoS ONE*** 8(5): e63899. [[doi](#)]
- 2013 **Reynolds, R.G.** and B.M. Fitzpatrick. Tests of two methods for identifying founder effects in metapopulations reveal substantial type II error. ***Genetica*** 141: 119–131. [[doi](#)]
- 2013 **Reynolds, R.G.**, A.R. Puente-Rolón, R.N. Reed, and L.J. Revell. Genetic analysis of a novel invasion of Puerto Rico by an exotic constricting snake. ***Biological Invasions*** 15: 953–959. [[doi](#)]
- 2013 Niemiller, M.L., J.R. McCandless, **R.G. Reynolds**, J. Caddle, T.J. Near, C.R. Tilquist, W.D. Pearson, and B.M. Fitzpatrick. Effects of climatic and geological processes during the Pleistocene on the evolutionary history of the northern cavefish, *Amblyopsis spelaea* (Teleostei: Amblyopsidae). ***Evolution*** 67: 1011–1025. [[doi](#)]

- 2012 **Reynolds, R.G.**, W. Booth, G.W. Schuett, B.M. Fitzpatrick, and G.M. Burghardt. Successive virgin births of viable male progeny in the checkered gartersnake, *Thamnophis marcianus*. ***Biological Journal of the Linnean Society*** 107: 566–572. [[doi](#)]
- 2012 **Reynolds, R.G.**, M.L. Niemiller, and B.M. Fitzpatrick. Genetic analysis of an endemic archipelagic lizard reveals sympatric cryptic lineages and taxonomic discordance. ***Conservation Genetics*** 13: 953–963. [[doi](#)]
- 2012 Revell, L.J. and **R.G. Reynolds**. A new Bayesian method for fitting evolutionary models to comparative data with intraspecific variation. ***Evolution*** 66: 2697–2707. [[doi](#)] [cover article]
- 2012 **Reynolds, R.G.** and G.P. Gerber. Ecology and conservation of the Turks Island Boa (*Epicrates chrysogaster chrysogaster*: Squamata: Boidae) on Big Ambergris Cay. ***Journal of Herpetology*** 46: 578–586. [[doi](#)]
- 2012 Fitzpatrick, B.M., J.A. Fordyce, M.L. Niemiller, and **R.G. Reynolds**. What can DNA tell us about biological invasions? ***Biological Invasions*** 14: 245–253. [[doi](#)]
- 2012 Placyk, J.S., B.M. Fitzpatrick, G.S. Casper, R.L. Small, **R.G. Reynolds**, D.W.A. Noble, R.J. Brooks, and G.M. Burghardt. Hybridization between two gartersnake species (*Thamnophis*) of conservation concern: A threat or an important natural interaction? ***Conservation Genetics*** 13: 649–663. [[doi](#)]
- 2012 Buckner, S.D., R. Franz, and **R.G. Reynolds**. Bahama Islands and Turks & Caicos Islands. In: R. Powell and R.W. Henderson (Eds.). *Island Lists of West Indian Amphibians and Reptiles*. ***Bulletin of the Florida Museum of Natural History*** 51: 85–166. [[doi](#)]
- 2012 **Reynolds, R.G.** *Epicrates chrysogaster*. ***Catalogue of American Amphibians and Reptiles*** 898: 1–5.
- 2011 **Reynolds, R.G.**, G.P. Gerber, and B.M. Fitzpatrick. Unexpected shallow genetic divergence in Turks Island Boas (*Epicrates c. chrysogaster*) reveals single evolutionarily significant unit for conservation. ***Herpetologica*** 67: 477–486. [[doi](#)]
- 2011 Booth, W., L. Million, **R.G. Reynolds**, G.M. Burghardt, E.L. Vargo, C. Schal, A.C. Tzika, and G.W. Schuett. Consecutive virgin births in the new world boid snake, the Colombian Rainbow Boa, *Epicrates maurus*. ***Journal of Heredity*** 102: 759–763. [[doi](#)]
- 2011 **Reynolds, R.G.** Status, conservation, and introduction of amphibians and reptiles in the Turks and Caicos Islands, British West Indies, p. 377–406. In: A. Hailey, B.S. Wilson, and J.A. Horrocks (Eds.). Conservation of Caribbean Island Herpetofaunas, vol. 2: Regional Accounts of the West Indies. Brill, Netherlands. [[doi](#)]
- 2011 Niemiller, M.L., **R.G. Reynolds**, B.M. Glorioso, J. Spiess, and B.T. Miller. Herpetofauna of the cedar glades and adjacent habitats of the inner central basin of middle Tennessee.

Herpetological Conservation and Biology 6: 135–149. [[doi](#)]

- 2011 **Reynolds, R.G.**, M.L. Niemiller, and S.A. Pasachnik. Occurrence of pygmy salamanders (*Desmognathus wrighti*) in Monroe County, Tennessee. ***Journal of the Tennessee Academy of Science*** 86: 53–55.
- 2010 **Reynolds, R.G.** and M.L. Niemiller. Island invaders: introduced amphibians and reptiles of the Turks and Caicos Islands. ***IRCF Reptiles & Amphibians: Conservation and Natural History*** 17: 117–121.
- 2008 Miller, B.T., M.L. Niemiller, and **R.G. Reynolds**. Observations on egg-laying behavior and interactions among attending female Red Salamanders (*Pseudotriton ruber*) with comments on the use of caves by this species. ***Herpetological Conservation and Biology*** 3: 203– 210. [[doi](#)]
- 2007 **Reynolds, R.G.** and B.M. Fitzpatrick. Assortative mating in poison-dart frogs based on an ecologically important trait. ***Evolution*** 61: 2253–2259. [[doi](#)]

Books

- 2013 Niemiller, M.L., **R.G. Reynolds**, and B.T. Miller (Eds.). The Reptiles of Tennessee. The University of Tennessee Press, Knoxville. 366 pgs. [[doi](#)]
- 2011 Niemiller, M.L. and **R.G. Reynolds** (Eds.). The Amphibians of Tennessee. The University of Tennessee Press, Knoxville. 369 pgs. [[doi](#)]

Natural History Notes

- Accepted **Reynolds, R.G.**, J. Burgess, G. Waters, and G.P. Gerber. *Chilabothrus chrysogaster chrysogaster* (Turks Island Boa). Diet. *Herpetological Review*.
- In Press Geneva, A.J., **R.G. Reynolds**, N.C. Herrmann*, A.R. Puente-Rolón, and K.J. Aviles-Rodriguez*. *Hemidactylus mabouia* (Woodslave). Distribution. *Herpetological Review*.
- In Press **Reynolds, R.G.** and A.R. Puente-Rolón. *Chilabothrus strigilatus* (Bahamas Boa). Distribution. *Herpetological Review*.
- In Press **Reynolds, R.G.**, N.C. Herrmann, A.R. Puente-Rolón, A.J. Geneva, and K.J. Aviles-Rodriguez. *Osteopilus septentrionalis* (Cuban Treefrog). Distribution. *Herpetological Review*.
- 2013 **Reynolds, R.G.** and B.N. Manco. *Epicrates c. chrysogaster* (Turks Island Boa). Climbing Behavior. *Herpetological Review* 44: 690–691.
- 2012 Nelson**, S.K., M.L. Niemiller, and **R.G. Reynolds**. New county records for amphibians and reptiles in Tennessee. *Herpetological Review* 43: 353–354.
- 2011 **Reynolds, R.G.** *Hemidactylus mabouia* (Tropical House Gecko), distribution. *Caribbean Herpetology* 28:1. [[doi](#)]
Reynolds, R.G. *Eleutherodactylus planirostris planirostris* (Cuban Flathead Frog), distribution. *Caribbean Herpetology* 27:1. [[doi](#)]
Reynolds, R.G. and B.M. Riggs. *Iguana iguana* (Green Iguana). Distribution. *Herpetological Review* 42: 241. [[pdf](#)]

- Reynolds, R.G.**, M.L. Niemiller, B.M. Riggs, and B.N. Manco. *Osteopilus septentrionalis* (Cuban Treefrog). Distribution. *Herpetological Review* 42: 237–238. [[pdf](#)]
- Reynolds, R.G.** and B.M. Riggs. *Pantherophis guttatus* (Cornsnake). Distribution. *Herpetological Review* 42: 243. [[pdf](#)]
- Reynolds, R.G.**, B.M. Riggs, M. Hibbert, and E. Salamanca. *Trachemys scripta elegans* (Red-eared slider). Distribution. *Herpetological Review* 42: 239. [[pdf](#)]
- Reynolds, R.G.**, J. Batchasingh, and B.M. Riggs. *Ramphotyphlops braminus* (Brahminy Blind Snake). Distribution. *Herpetological Review* 42: 244. [[pdf](#)]
- Reynolds, R.G.**, B.M. Riggs, M. Hibbert, and E. Salamanca. *Anolis equestris* (Knight Anole). Distribution. *Herpetological Review* 42: 239. [[pdf](#)]
- Reynolds, R.G.**, M.L. Niemiller, and BN Manco. *Epicrates chrysogaster chrysogaster* (Turks Island Boa). Maximum Size. *Herpetological Review* 42: 290. [[pdf](#)]
- Reynolds, R.G.**, and M.L. Niemiller. *Epicrates chrysogaster chrysogaster* (Turks Island Boa). Diet. *Herpetological Review* 42: 290. [[pdf](#)]
- 2010 **Reynolds, R.G.**, G.P. Gerber, and J. Burgess. *Tropidophis greenwayi greenwayi* (Big Ambergris Dwarf Boa). Distribution. *Herpetological Review* 41: 520.
- Reynolds, R.G.** *Typhlops platycephalus* (Puerto Rican White-tailed Blindsnake), distribution. *Caribbean Herpetology* 15:1. [[doi](#)]
- Reynolds, R.G.**, and ML Niemiller. *Epicrates chrysogaster* (Southern Bahamas Boa), distribution. *Caribbean Herpetology* 14:1. [[doi](#)]
- 2009 **Reynolds, R.G.**, and ML Niemiller. *Hemidactylus mabouia* (Wood Slave). Distribution. *Herpetological Review* 40: 452.
- Reynolds, R.G.** *Leiocephalus psammadromus* (Turks and Caicos Curly-tailed Lizard). Conspecific necrophagy. *Herpetological Review* 40: 88–89.
- Niemiller, M.L., **R.G. Reynolds**, JG Reynolds, and BT Miller. *Gyrinophilus porphyriticus porphyriticus* (Northern Spring Salamander). Reproduction. *Herpetological Review* 40: 67.

Popular Articles & Technical Reports

- 2011- Present **Anole Annals** Blog contributor [[link](#)]
- 2016 **Reynolds, R.G.** IUCN Red List Assessment, *Chilabothrus argenteum*.
- 2016 Brooks, T., **R.G. Reynolds**, and S.D. Buckner. IUCN Red List Assessments for 24 species of reptiles from the Bahamas and Turks and Caicos Islands.
- 2011 **Reynolds, R.G.**, and M.L. Niemiller. New scales: reptiles invade the Turks and Caicos. Green Pages, *Times of the Islands Magazine*, Spring, 94: 30–33.
- 2010 **Reynolds, R.G.**, and C. Deal. Where do all the babies go? Understanding the biology of juvenile Rainbow Boas. Green Pages, *Times of the Islands Magazine*, Winter, 93:34–36.
- 2009 **Reynolds, R.G.** Scaling Millennia: What can lizards teach us about TCI's history? Green Pages, *Times of the Islands Magazine*, Winter 2009: 42–45.
- 2009 Miller, B.T., D. Estabrooks**, **R.G. Reynolds**, and M.L. Niemiller. Status review of the Streamside Salamander (*Ambystoma barbouri*) in Tennessee. Report to Tennessee Wildlife Resources Agency. [[doi](#)]

FUNDING AWARDS

- 2016 International Iguana Foundation (with Stesha Pasachnik, John Iverson, and Charles Knapp) (\$10,457; includes anonymous \$5,000 match)
- 2016 Darwin Plus: Overseas Territories Environment and Climate Fund. Collaborative grant sub-award (£12,030)
- 2015 Harvard Museum of Comparative Zoology, Thomas Barbour Fund Research Expedition Grant (\$8,250)
- 2015 Harvard University, Postdoctoral Award for Professional Development (\$1,000)
- 2014 Harvard Museum of Comparative Zoology, Putnam Expedition Grant (with Jonathan Losos) (\$9,198)
- 2013 Tennessee Wildlife Resources Agency (with Matthew Niemiller and Brian Miller) (\$8,000)
- 2012 US Fish and Wildlife, Endangered Species Recovery Implementation (with Alberto Puente-Rolón) (\$9,803)
- 2011 University of Tennessee Science Alliance Graduate Student Award (\$3,000)
- 2011 JM Kaplan Fund (with Matthew Niemiller) (\$3,000)
- 2010 Tennessee Wildlife Resources Agency (with Matthew Niemiller) (\$8,000)
- 2010 Mohamed bin Zayed Species Conservation Fund (\$5,000)
- 2010 University of Tennessee, Graduate Student Travel Award (\$403)
- 2009 American Philosophical Society, Lewis and Clark Fund for Exploration and Field Research (\$2,200)
- 2009 American Genetics Association (\$800)
- 2008 American Museum of Natural History, Theodore Roosevelt Memorial Fund Grant in Support of Research (\$1,095)
- 2008 Sigma Xi, The Scientific Research Society, Grant-in-Aid of Research (\$500)
- 2008 W. K. McClure Scholarship for the Study of World Affairs (\$2,900)
- 2008 American Genetics Association (\$500)
- 2007 University of Tennessee Summer Research Grants (x4) (\$5,850 total)
- 2003 Duke University - Howard Hughes Fellowship in Biology (\$500)
- 2003 Duke University - Mellon Foundation Latin American Travel Grant (\$800)
- 2003 Duke University – Deans’ Summer Fellowship (\$1,352)

PROFESSIONAL SERVICE

- Associate Editor: Journal of Herpetology, 2014-Present
Journal of North American Herpetology, 2013-2016
- ad hoc* Associate Editor: Herpetological Conservation and Biology, 2015- 2016
- Assistant Editor: Herpetological Conservation and Biology, 2014-2016
- Reviewer: *Journal of Herpetology* (34), *Herpetological Conservation and Biology* (20), *Biological Invasions* (8), *Evolution* (7), *Molecular Ecology* (5), *Journal of Biogeography* (4), *Biological Journal of the Linnean Society* (3), *Proceedings of the Royal Society B* (3), *Conservation Genetics* (3), *IRCF Reptiles and Amphibians* (3), *Methods in Ecology and Evolution* (2), *Southeastern Naturalist* (2), *Herpetologica* (2), *American Naturalist*, *Nature Communications*, *BMC Genomics*, *Animal Biology*, *Axios*, *Biology Letters*, *Diversity and Distributions*, *Ecology and Evolution*, *Evolutionary Applications*, *LIFE: The Excitement of Biology*, *Journal of Ethology*,

Molecular Ecology Resources, Journal of Natural History, PLOS ONE, Caribbean Naturalist, Zootaxa, Zoological Journal of the Linnean Society, National Science Foundation Division of Environmental Biology (Phylogenetic Systematics), National Geographic Society

Judge: E.E. Williams Grant- *Society for the Study of Amphibians and Reptiles* (2013)
Sigma Delta Epsilon Graduate Women in Science Fellowship (2014)

Co-Founder: Caribbean & Latin American Boa Specialist Group

Co-Chair: Caribbean Boa Specialist Group Inaugural Meeting, Arecibo, Puerto Rico, August 1-4, 2013.

INVITED TALKS

- 2016 E.D.G.E. Seminar. University of Georgia, Athens, G.A.
- 2016 Departmental Seminar. Department of Biology, Mississippi State University, Starkville, M.S.
- 2015 North Carolina Herpetological Society, Raleigh, N.C.
- 2015 Departmental Seminar. Department of Biology, University of North Carolina Asheville, Asheville, N.C.
- 2013 Departmental Seminar. Department of Biological and Environmental Sciences, University of Tennessee Chattanooga, Chattanooga, T.N.
- 2012 Universidad Interamericana de Puerto Rico, Recinto de Arecibo, Arecibo, P.R.
- 2011 Southern Festival of Books, Nashville, T.N. With Matthew Niemiller.

CAMPUS TALKS

- 2017 *A Trip Through the Metazoan Tree-of-Life; Animal Diversity (Especially in the Tar Heel State)*. Pints with Profs at Habitat Brewing, Asheville, NC.
- 2016 *The Silver Boa: Discovery of a Remarkable New Species from the Bahamas*. Ramsey Library Special Collections Seminar, UNC Asheville.
- 2016 *Vertebrate Biology in the Caribbean*. University of North Carolina Asheville, New Faculty Seminar Series
- 2015 *Discovery of a Remarkable New Boa from the Caribbean*. Museum of Comparative Zoology, Harvard University
- 2014 *Evolution and Diversification of Boas: Micro to Macro Scale*. Department of Biological Sciences, University of Rhode Island
- 2014 *Evolution and Diversification of Boas: Micro to Macro Scale*. Museum of Comparative Zoology, Harvard University
- 2012 *Ecology, Genetics, and Conservation of Boas in the West Indies*. University of Massachusetts Boston, Biology Departmental Seminar
- 2011 *Islands, Metapopulations, and Archipelagos: Genetic Equilibrium and Non-Equilibrium Dynamics of Structured Populations in the Context of Conservation*. Ph.D. Exit Seminar, EEB Departmental Seminar, Knoxville, Tennessee
- 2010 *Inference of Historical Demography in Simulated Metapopulations*. Annual Sigma Xi Student Competition, Knoxville, Tennessee
- 2010 *Ecology, Genetics, and Conservation of Turks Island Boas*. Graduate Researchers in Ecology and Evolution Departmental Seminar, Knoxville, Tennessee

CONTRIBUTED TALKS (selected, since 2010)

- 2016 *Discovery of a Remarkable New Boa from the Caribbean*. Joint Meeting of Ichthyologists and Herpetologists, New Orleans, Louisiana.
- 2016 *Ecological Specialization and Morphological Evolution in West Indian Boas*. Society for the Study of Evolution Joint Meeting, Austin, Texas.
- 2016 *Conservation Status of Bahamas Boas*. Bahamas Natural History Conference, Nassau, Bahamas.
- 2015 *Phylogeography of the Lizard Anolis sagrei Across the Caribbean Basin*. Society for Integrative and Comparative Biology, West Palm Beach, Florida
- 2014 *Deterministic Evolution in Greater Antillean Boid Snakes: an Extension of the Caribbean Ecomorph Paradigm?* Society for the Study of Evolution Joint Meeting, Raleigh, North Carolina
- 2014 *The Boa and Python Tree-of-Life*. Joint Meeting of Ichthyologists and Herpetologists, Chattanooga, Tennessee
- 2013 *Conservation Genetics of the Puerto Rican Boa*. Caribbean and Latin American Boid Group Meeting, Arecibo, Puerto Rico
- 2013 *A Trip Through the Boa Tree-of-Life*. Caribbean and Latin American Boid Group Meeting, Arecibo, Puerto Rico
- 2013 *The Boa and Python Tree-of-Life*. Society for the Study of Evolution Joint Meeting, Snowbird, Utah
- 2012 *The Reptiles of Tennessee- a New Book from the University of Tennessee Press*. Tennessee Herpetological Society Annual Meeting, UT Martin. With Matthew Niemiller
- 2012 *Conservation Genetics of West Indian Boas*. 7th World Congress of Herpetology University of British Columbia
- 2010 *Herpetofauna of the Cedar Glades and Adjacent Habitats of the Inner Central Basin of Middle Tennessee*. Tennessee Herpetological Society Annual Meeting, Royal Blue WMA, Tennessee. With Matthew Niemiller
- 2010 *The Amphibians of Tennessee- a New Book from the University of Tennessee Press*. Tennessee Herpetological Society Annual Meeting, Royal Blue WMA, Tennessee. With Matthew Niemiller
- 2010 *Inference of Historical Demography in Simulated Metapopulations*. Society for the Study of Evolution Joint Meeting, Portland, Oregon. With Ben Fitzpatrick

TEACHING EXPERIENCE**Instructor**

- UNCA BIOL 350 Vertebrate Field Zoology
- UNCA BIOL 374 Herpetology
- UNCA BIOL 210 Zoology
- UNCA BIOL 135 Ecology and Evolutionary Biology

Co-Instructor

- Caribbean Tropical Biology, Puerto Rico Field Course (2013, 2014, 2015)

Graduate/Postdoc Teaching Assistant (17 semesters)

General Biology Labs (majors and non-majors), Honor's Biodiversity Lab, Biology of Human Affairs, Human Anatomy Lab, Comparative Vertebrate Biology Lab, Animal Behavior, Evolution, Comparative Vertebrate Biology

MENTORING EXPERIENCE

Doctoral Committee Service: Tomáš Závada (UMass Boston) 2015

M.A. Committee Service: Quynh Quach (UMass Boston) 2016

M.Sc. External Advisor: Inbar Maayan (Ludwig Maximilians Universität München) 2015

UNCA Clair H., Darcy D., Kay T., Megan R., Ally B.; Danielle P.; Maaian E.; Aryeh M.; Emily A.; Amy C.; Shannon B.; Robert C.

Harvard Pavitra M. (PhD student); Wendy J. (PhD student at VU University Amsterdam); Nick H. (PhD student); Tanner S. (undergrad; [Hoopes Prize](#) award) [[poster](#)]

UMB Kristin W., (PhD student) [[poster](#)]; Kevin A-R. (PhD student); Jason F. (undergrad) [[poster](#)]; Kirsten T. (undergrad) [[pdf](#)]; Ellen L. (undergrad); Siedeh R.-K., (undergrad); Kathrin N. (undergrad); Karen K., (undergrad) [[pdf](#)]; Tiara B.-S., (undergrad) [[pdf](#)]; Jillian N. (undergrad at Northeastern Univ.); Sophia P.-I. (REU student) [[poster](#)]

UTK Melissa L. (undergrad); Nell K. (Maryville High School); Cory D. (St. Edwards High School) [[pdf](#)]

OTHER EXPERIENCE

2016 **Specialty Workshop**: Tackling Big Data: NGS from Sample Prep to Analysis. Western Carolina University.

2009 **Specialty Workshop Course**: *Recent Advances in Conservation Genetics*. American Genetics Association and Smithsonian Tropical Research Institute. Gamboa, Panama. Lead Instructor: Stephen J. O'Brien

2008 **Specialty Workshop Course**: *Conservation and Biodiversity Genetics*. Organization for Tropical Studies. Palo Verde, Costa Rica. Instructors: James Hamrick and John Wares

2003 **Visiting Undergraduate Researcher**: Smithsonian Tropical Research Institute, Bocas del Toro, Panama

2002 **Organization for Tropical Studies** Costa Rica Semester Abroad

1999– **Tropical Field Research Intern**, IBUNAM Field Station, Chamela-Cuixmala Biosphere

2001 Reserve, Jalisco, Mexico

PROFESSIONAL MEMBERSHIP

Current: IUCN Species Survival Commission (SSC) Boa & Python Specialist Group, IUCN Species Survival Commission (SSC) Anolis Specialist Group, Society for the Study of Evolution, Society for the Study of Amphibians and Reptiles, North Carolina Herpetological Society

OTHER SERVICE & OUTREACH

UNC Asheville GEAR UP Steering Committee (2017-Present); Chair, UNC Asheville University Research Council (2016-2019); Judge, North Carolina Student Academy of Sciences Competition (2016); Assistant Coordinator and Judge, Tennessee Science Olympiad (2011); Scientific Judge, U.S. Dept. of Energy Tennessee Science Bowl (2011); Vice President, UTK Graduate Researchers in Ecology, Behavior, and Evolution (2008-10); Departmental Representative to the Graduate Student Senate (2008-10); UTK Kids U! Instructor (2007-11).

LANGUAGES

English- Native speaker; Spanish- Conversational speaker, intermediate reader; French- Beginning reader

MEDIA COVERAGE

- [Reynolds et al. 2016. Discovery of a remarkable new boa from the Conception Island Bank, Bahamas. *Breviora* 549: 1–19.]
International coverage by >80 media outlets including online, print, television broadcasts, and radio broadcasts. Over 18 million Twitter account engagements. Full list of coverage is available [here <link>](#).
- [Winchell et al. 2016. Phenotypic shifts in urban areas in the tropical lizard *Anolis cristatellus*. *Evolution* 70: 1009–1022.]
Coverage in [New Scientist](#), [Recent Paper Decent Puzzle](#), and [IFLScience](#). Journal cover article.
- [Stuart et al. 2014. Rapid evolution of a native species following invasion by a congener. *Science* 346: 463-466]
Coverage in [Washington Post](#), [NY Times](#), [The Scientist Magazine](#), [Harvard Gazette](#), etc.