BRETT RYAN SCHEFFERS

Assistant Professor Wildlife Ecology and Conservation University of Florida Gainesville, Florida Website: schefferslab.com Email: <u>brett.scheffers@ufl.edu</u>

352-846-0570

EDUCATION

2014	PhD	National University of Singapore	Singapore	(Ecology)
2010	MSc	The University of Alberta	Canada	(Ecology)
2005	BSc	Sewanee: The University of the South	USA	(Ecology) w/ Honors

PROFESSIONAL APPOINTMENTS

2015 -	Assistant Professor, Depart. Wildlife Ecology and Conservation, Univ. of Florida,
2013 - 2015	Postdoctoral Research Fellow, Center for Tropical Biodiversity and Climate Change,
	James Cook University, Townsville, Queensland, Australia

HONORS AND AWARDS

2020 University of Florida Excellence Award for Assistant Professors (1 of 2 chosen per college	2020	University	y of Florida Excellence	Award for Assistant	Professors (1	1 of 2 chosen	per college)
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- 2020 University of Florida High-Impact Research Publication Award (1 chosen per college)
- 2018 Florida Climate Institute Research Fellowship (\$6000)
- 2018 Julie Denslow Research Excellence Award, Assoc. Tropical Bio. & Conservation
- 2017 Ralph E. Powe Junior Faculty Enhancement Award, Oak Ridge Associated Universities (\$10,000)
- 2016 University of Florida High-Impact Research Publication Award (1 chosen per college)
- 2016 Global Fellow award for International Research (UFIC, Univ. of Florida; \$4000)
- 2016 Carbon Brief top 10 paper award (Scheffers et al. 2016 *Science*, ranked #8 of all climate change papers published in 2016)

PUBLICATIONS

I have **64 publications** in international peer-reviewed journals, books, and popular articles. My **h-index = 23**, **i10-index = 36**, and total **citations = 3620** (as per Google Scholar Citations). My Williams & Scheffers 2013 popular article on climate change received over 15,000 readers and over 200 comments and Scheffers & Watson 2016 popular article in *The Conversation* received >62,000 readers, 270 tweets, and 731 Facebook shares.

~Students/Post doc under my supervision are underlined

PEER-REVIEWED

- 58. <u>Klinges</u>, D. H. and **B.R. Scheffers**. *In press*. Microgeography, not just latitude, drives climate overlap on mountains from tropical to polar ecosystems. **The American Naturalist**
- 57. <u>Basham, E. W.</u>, R. Saporito, M., González-Pinzón, A. Romero-Marcucci, and **B.R. Scheffers.** *In press*. Chemical defenses shift with the seasonal vertical migration of a Panamanian poison frog.

- 56. González-del-Pliego, P., **B.R. Scheffers**, R.P. Freckleton, E.W. Basham, M.B. Araujo, A.R. Acosta-Galvis, C.A.Medina Uribe, T. Haugaasen, D.P Edwards. *In press*. Thermal tolerance and the importance of microhabitats for Andean frogs in the context of land-use and climate change. **Journal of Animal Ecology** doi.org/10.1111/1365-2656.13309
- 55. Lembrechts, J. J., Aalto, J., Ashcroft, M. B., De Frenne, P., Kopecký, M., Lenoir, J., ... & García, R. A. (**Scheffers B.R**.; 1 of >50 co-authors). 2020. SoilTemp: a global database of near-surface temperature. **Global Change Biology**. doi.org/10.1111/gcb.15123
- 54. <u>Basham, E.</u> and **B.R. Scheffers**. 2020. Vertical stratification collapses under seasonal shifts in climate. **Journal of Biogeography** doi.org/10.1111/jbi.13857
- 53. <u>Khazan, E.,</u> Bujan, J., & **Scheffers, B. R.** 2020. Patterns of ant activity and nesting ecology depend on flooding intensity in a Neotropical floodplain. **Internat. Journal of Tropical Insect Science**, 1-9.
- 52. Diesmos, A.C., **B.R., Scheffers**, N.A.D Mallari, C.D. Siler, and R.M Brown. 2020. A new forest frog of the genus Platymantis (Amphibia: Anura: Ceratobatrachidae: subgenus Tirahanulap) from Leyte and Samar islands, eastern Philippines. **Zootaxa**, 4830: 573-591.
- 51. Oliveira, B., J.M. Flenniken, R.P. Guralnick, S.E. Williams, **B.R Scheffers.** 2020. Historical environmental stability drives discordant niche filling dynamics across phylogenetic scales. **Journal of Biogeography** 47:807-816
- 50. Oliveira, B., B.R. Scheffers and G.G. Costa. 2020. Decoupled erosion of amphibians' phylogenetic and functional diversity due to extinction. Global Ecology and Biogeography 29: 309-319
- 49. <u>Seidl, C.M., Basham, E.W.,</u> **B.R. Scheffers.** 2019. Bird's nest fern epiphytes facilitate herpetofaunal arboreality and climate refuge in two Paleotropic canopies. **Oecologia** 192:297-309.

- 48. **Scheffers B.R.**, <u>B. Oliveira</u>, I. Lamb, and D.P.Edwards. *2019*. Global wildlife trade across the tree of life. **Science** 366: 71-76
 - *Scheffers et al 2019 Science received an Altmetric score of 874. Press coverage by 55 News Outlets
- 47. **Scheffers B.R.** and G. Pecl. *2019*. The future of biodiversity under climate change persecuted, protected, or ignored? **Nature Climate Change** 9: 581-586
 - *Highlighted in Nature Climate Change Editorial (Nat. Clim. Chang. 10, 377 (2020))
- 46. González-del-Pliego, P., Freckleton, R.P., Edwards, D.P., Koo, M.S., **Scheffers, B.R.**, Pyron, R.A. and Jetz, W., 2019. Phylogenetic and trait-based prediction of extinction risk for data-deficient amphibians. **Current Biology**, 29: 1557-1563.
- 45. De Frenne, P., F. Zellweger, F. Rodriguez-Sanchez, **B.R. Scheffers** et al. 2019. Global buffering of temperatures under forest canopies. **Nature Ecology and Evolution** 3: 744
 - *Highly cited paper in Ecology/Environment (Essential Science Indicators)

- 44. Oliveira, B. and **B.R. Scheffers**. 2019. Vertical stratification influences global patterns of biodiversity. **Ecography** 42:249-258
- 43. <u>Basham, E.W., C.M. Seidl, L.R. Andriamahohatra</u>, B.F. Oliveira, and **B.R. Scheffers**. 2019. Distance-decay differs among vertical strata in a tropical rainforest. **J. Anim. Ecology** 88:114-124

- 42. Simmons, C. S., Famolare, L., Macedo, M. N., Walker, R. T., Coe, M. T., **Scheffers, B.R.**, ... & Moorcroft, P. 2018. Science in support of Amazonian conservation in the 21st century: the case of Brazil. **Biotropica**, 50: 850-858.
- 41. Nowakowski, J.A., L.O. Frishkoff, M. Agha, B. Todd, and **B. R. Scheffers**. 2018. Changing thermal landscapes: merging climate science and landscape ecology through thermal biology. **Current Landscape Ecology Reports** 3: 57-72.
- 40. Edwards, D.P., and **B.R. Scheffers.** 2018. Lincoln's sparrow Melospiza lincolnii: first record for Colombia and second record for South America. **Cotinga** 40: 92-93.
- 39. <u>Dufour, P.C.</u>, K.R. Willmott, P.S. Padron, S. Xing, T.C. Bonebrake, and **B.R. Scheffers**. 2018. Divergent melanism strategies in Andean butterfly communities structure diversity patterns and climate responses. **Journal of Biogeography** 45: 2471-2484.
- 38. **Scheffers, B.R.** and S.E. Williams. 2018. Tropical mountain passes are out of reach but not for arboreal species. **Frontiers in Ecology and the Environment** 16:101-108
- 37. Bonebrake, T.C., (**Scheffers** as co-author). 2018. Managing consequences of climate-driven species redistribution requires integration of ecology, conservation and social science. **Biological Reviews** 93:284-305

- 36. Greenspan, S.E., D.S Bower, E.A. Rosnik, D.A Pike, G. Marantelli, R.A. Alford, L. Schwarzkopf, and **B.R. Scheffers**. 2017. Infection increases vulnerability to climate change via effects on host thermal tolerance. **Scientific Reports** 7: 9349
- 35. Evans, J.P., K.K. Cecala, **B.R. Scheffers**, C.A. Oldfield, N.A. Hollingshead, D. Haskell, B.A. McKenzie. 2017. Widespread degradation of a vernal pool network in the southeastern United States: Challenges to current and future management. **Wetlands** 37:1093-1103
- 34. **Scheffers, B.R.**, et al. 2017. Vertical (arboreality) and horizontal (dispersal) movement increase the resilience of vertebrates to climatic instability. **Global Ecology Biogeography** 26:787-798.
- 33. Pecl, G.T., (**Scheffers as co-author**). 2017. Biodiversity redistribution under climate change: impacts on ecosystems and human well-being. **Science** 355:9214.
 - *Highly cited paper in Ecology/Environment (Essential Science Indicators)
- 32. **Scheffers, B.R.**, et al. 2017. Extreme thermal heterogeneity in structurally complex tropical rainforests. **Biotropica** 49: 35-44.

31. **Scheffers, B.R.**, et al. 2016. The broad footprint of climate change from genes to biomes to people. **Science** 354: 7671

*Received an Altmetric score of 1448; ranking it the 8th most impactful climate change paper published in 2016. Press coverage by 79 News Outlets. Highly cited paper in Ecology/Environment (Essential Science Indicators)

- 30. Young, B.E., T. Martin, J. Watson, W.B. Foden, S. Williams and **B.R. Scheffers**. 2016. Setting climate change vulnerability assessment goals and objectives. In W.B. Foden and B.E. Young, editors. IUCN SSC Guidelines for Assessing Species' Vulnerability to Climate Change. Version 1.0. **IUCN Species Survival Commission** No. 59. Gland, Switzerland and Cambridge, UK. pp 33–48
- 29. Xing, S., T. Bonebrake, C.C. Tang, E.J. Pickett, W. Cheng, S.E Greenspan, S.E. Williams, & B.R. Scheffers. 2016. Cool habitats support darker and bigger butterflies in Australian tropical forests. Ecology and Evolution 6: 8062-8074
- 28. Harrison, R.D et al (**Scheffers as co-author**). 2016. Impacts of hunting on tropical forests in Southeast Asia. **Conservation Biology** 30:972-981.
- 27. <u>Ganzalez del Pliego, P.G.</u>, **Scheffers, B.R.**, et al. 2016. Thermally buffered microhabitats recovery in tropical secondary forests following land abandonment. **Biological Conservation** 201: 385-395.
- 26. **Scheffers, B.R.** and C.A. Paszkowski. 2016. Large body size for metamorphic wood frogs in urban stormwater wetlands. **Urban Ecosystems** 19: 1-13
- 25. <u>Furman, B.L.S.</u>, **B.R. Scheffers**, M. Taylor, C. Davis, and C.A. Paszkowski. 2016. Limited genetic structure in a wood frog (Lithobates sylvaticus) population in an urban landscape inhabiting natural and constructed wetlands. **Conservation Genetics** 17: 1-12.

2015

24. Pacifici M., et al (**Scheffers as co-author**). 2015. Assessing species vulnerability to climate change. **Nature Climate Change** 5: 215-224

*Highly cited paper in Ecology/Environment (Essential Science Indicators)

2014

- 23. **Scheffers, B. R.,** T.A. Evans, S.E. Williams, and D.P. Edwards. 2014. Microhabitats in the tropics buffer temperature in a globally coherent manner. **Biology Letters** 10: 20140819
- 22. **Scheffers, B. R.,** B. Phillips and L.P. Shoo. 2014. *Asplenium* bird's nest ferns in rainforest canopies are climate-contingent refuges for frogs. **Global Ecology and Conservation** 2:37-46.
- 21. **Scheffers, B. R.,** D.P., Edwards, A. Diesmos, S.E. Williams and T.A. Evans. 2014. Microhabitats reduce animals' exposure to climate extremes. **Global Change Biology** 20: 495-503.

*Highly cited paper in Ecology/Environment (Essential Science Indicators)

2013

20. Evans, J. E., **B. R. Scheffers**, and M. Hess. 2013. Effect of laurel wilt invasion on redbay populations in a maritime forest community. **Biological Invasions** 16: 1581-1588

- 19. **Scheffers, B. R.,** <u>B. S. Furman,</u> and J. Evans. 2013. Salamander populations persist following loss of terrestrial habitat surrounding ephemeral ponds. **Herp. Conserv. Biol.** 8: 715-723
- 18. **Scheffers, B. R.**, et al 2013. Increasing arboreality with altitude: a novel biogeographical dimension. **Proceedings of the Royal Society B** 280: 20131581.
 - *Highlighted in Nature Climate Change Research Highlights (Nature Climate Change 3, 953 (2013)). Press coverage by The Economist
- 17. **Scheffers, B. R.,** et al 2013. Thermal buffering of microhabitats is a critical factor mediating warming vulnerability of frogs in the Philippine biodiversity hotspot. **Biotropica** 45: 628-635
- 16. **Scheffers, B. R.** and C. A. Paszkowski. 2013. Influence of natural habitat features on amphibian occurrence in urban stormwater wetlands. **Landscape and Urban Planning** 113: 139-149
- 15. Hocking, D. J., G. M. Connette, C. A. Conner, **B. R. Scheffers**, S. E. Pittman, W. E. Peterman, and R. D. Semlitsch. 2013. Effects of experimental forest management on a terrestrial, woodland salamander in Missouri. **Forest Ecology and Management** 287: 32-39
- 14. <u>Zozaya, S.,</u> **B. R. Scheffers**, S.L. MacDonald, C.J. Hoskin, and S. E. Williams. 2013. A significant range extension for the Australian Wet Tropics skink *Eulamprus frerei* (Reptilia: Squamata: Scincidae). **Memoirs of the Queensland Museum-Nature** 56: 621-624

- 13. **Scheffers, B. R.,** L. P. Joppa, S. L. Pimm, and W. F. Laurance. 2012. What we know and don't know about Earth's missing biodiversity. **Trends in Ecology and Evolution** 27: 501-510
- 12. **Scheffers, B. R.,** R. R. Corlett, A. Diesmos, and W. F. Laurance. 2012. Local demand drives a bushmeat industry in a Philippine forest preserve. **Tropical Conservation Science** 5: 133-141.
- 11. **Scheffers, B. R.,** A. V. Whiting and C. A. Paszkowski. 2012. The roles of spatial configuration and scale in explaining animal distributions in disturbed landscapes: a case study using pond-breeding amphibians. Supplement 25: 101-110 (invited MS for Raffles Bulletin of Zoology)
- 10. **Scheffers, B. R.** & C. A. Paszkowski. 2012. Effects of urbanization on North American amphibian species: identifying new directions for urban conservation. **Urban Ecosystems** 15:133-147

- 9. <u>Furman, B. L. S.</u>, **B. R. Scheffers**, and C. A. Paszkowski. 2011. The use of fluorescent powdered pigments as a tracking technique for snakes. **Herpetological Conservation & Biology** 6:473-478
- 8. Harris, J. B. C., J. L. Reid, **B. R. Scheffers**, T. C. Wanger, N. S. Sodhi, D. A. Fordham, B. W. Brook. 2011. Conserving imperiled species: A comparison of the IUCN Red List and US Endangered Species Act. **Conservation Letters** 5: 64-72
- 7. **Scheffers, B. R.,** et al. 2011. The world's rediscovered species: Back from the Brink? **PLoS ONE** 6(7): e22531.
- 6. Giam X, B. R. Scheffers, et al., 2011. Reservoirs of richness: least disturbed tropical forests are

5. Scheffers, B. R. and T. C. Wanger. 2011. Plastic: matching material with usage. Frontiers in Ecology and the Environment 9:151-152.

2006-2010

- 4. **Scheffers, B. R.** 2010. *Plethodon dorsalis | Eurycea lucifuga | Aneides aeneus*: Arboreality. **Herpetological Review**. 41: 190.
- 3. Scheffers, B. R. 2010. Pseudotriton ruber: Habitat usage. Herpetological Review. 41:191.
- 2. **Scheffers, B. R.**, et al., 2009. A comparison of two artificial cover objects for monitoring amphibians and reptiles. **Herpetological Review** 40: 419-421.
- 1. **Scheffers, B. R.,** J. B. C. Harris, and D. G. Haskell. 2006. Avifauna associated with ephemeral ponds on the Cumberland Plateau, Tennessee. **Journal of Field Ornithology** 77: 178-183.

BOOK CHAPTERS

- 2. Williams S.E., **B.R. Scheffers**, and J. Isaac. 2014. Tropical rainforests. Pp 67-72 *in*: "Ten Commitments: reshaping the lucky country's environment", Eds. D. Lindenmayer, S. Dovers, M. Harris Olson and S. Morton. CSIRO Publishing, Melbourne.
- 1. Gottfried, R., C. Butler, N. Hollingshead, M. Lane, D. Lemoine, D. Williams, and **B.R. Scheffers**. 2007. Modeling land-use change and its environmental impacts on the southern Cumberland Plateau. Pgs. 58-61 in Laband, D. (ed.) Emerging issues along urban: rural interfaces 2: Linking land-use science and society.

OTHER PROFESSIONAL PUBLICATIONS

- 5. **Scheffers B.R.**, B. Oliveira, I. Lamb, and D.P.Edwards. 2019. Mischaracterizing the conservation benefits of trade (commentary). **Mongabay** https://news.mongabay.com/2019/11/mischaracterizing-the-conservation-benefits-of-trade-commentary/
- 4. **Scheffers B.R.** and J.M. Watson. 2016. Climate change is affecting life on Earth and that's not good news for humanity. **The Conversation** https://theconversation.com/climate-change-is-affecting-all-life-on-earth-and-thats-not-good-news-for-humanity-66475 (>62,00 readers)
- 3. Williams, S.E., **B.R. Scheffers**, and L. Falconi. 2015. Let's get serious about protecting wildlife in a warming world. **The Conversation** https://theconversation.com/lets-get-serious-about-protecting-wildlife-in-a-warming-world-42109 (>2,500 readers)
- 2. Williams S.E. and **B.R. Scheffers**. 2013. As climate changes, animals move fast to escape the heat. **The Conversation** https://theconversation.com/as-climate-changes-animals-move-fast-to-escape-the-heat-18511 (>18,000 readers and over 200 comments)
- 1. **Scheffers, B.R.** 2012. Climate change research Philippine biodiversity hotspot. **FrogLog** 104: 38-39

FUNDING

2020-2023	NOAA Restore (co-PI) Ecological and economic impacts of land use and climate change on coastal food webs and fisheries. \$890,000
2020-2022	USGS Southeast Climate Adaptation Center (PI), An assessment of invasive species range shifts in the southeastern USA and actions to manage them. \$347,605
2018	USAID Partnership for Enhanced Engagement in Research Supported Partner Cooperation Supplement (US Partner) Community-based monitoring and management of Madagascar's National Park protected areas. \$7,684
2018-2020	National Geographic Society (PI) Life in the trees: vertical stratification of frogs in wet and dry rainforests of Madagascar. \$29,966
2017-2021	USAID Partnership for Enhanced Engagement in Research (US Partner) Community-based monitoring and management of Madagascar's National Park protected areas. \$230,000 *one of the first climate change grants awarded by USAID PEER program
2013-2016	Research Council of Norway. <i>Thermal heterogeneity in human disturbed landscapes</i> as part of Research Council of Norway (logging and oil palm in Colombia) (~\$550, 000; \$30,000 to Scheffers).
2014	National Geographic Society Research and Exploration grant (PI) Mini-ecosystems with big biodiversity: assessing the threat of human disturbance on epiphytes within rainforest canopies of Madagascar. \$21,000
2014	Centre for Tropical Biodiversity and Climate Change. (PI) Exploring the velocity of climate change: identifying future directions for assessing the impacts of climate change on species distributions and ecosystems. Workshop associated with Association for Tropical Biology and Conservation. \$4000
2013	Center for Tropical Biology and Climate Change – Research Grant; James Cook University, Townsville, Australia. (PI) <i>Testing the arboreality hypothesis in the Australian Wet Tropics</i> . \$3063
2010-2013	National University of Singapore. (co-PI) <i>Understanding the biotic attrition in Southeast Asian forests.</i> \$108,457 (\$50,000 to Scheffers)
2011	Wildlife Reserves Singapore Conservation Fund. (PI) Effects of habitat disturbance on canopy amphibians and reptiles in Southeast Asia. \$20,379
2008	Ducks Unlimited (North American Waterfowl Management Plan). (PI) Amphibian breeding, movement patterns, and habitat selection within urbanized landscapes. \$16,466

2007	City of Edmonton Wetlands and Stormwater Facilities. (PI) Amphibian breeding, movement patterns and habitat selection within urbanized landscapes: Using amphibian distribution as a means for maintaining connected natural areas. \$19,582
2007	Alberta Sport, Recreation, Parks & Wildlife Foundation. (PI) Amphibian breeding, movement patterns, and habitat selection within the city of Edmonton. \$3,419
2007	Canadian Circumpolar Institute. (PI) <i>The effect of urbanization on the distribution and abundance of amphibians in northern cities.</i> \$1,350
2007	Alberta Conservation Association Biodiversity Grant. (PI) Amphibian breeding, movement patterns, and habitat selection within urbanized landscapes. \$8,817
2007	Ducks Unlimited (North American Waterfowl Management Plan). (PI) Can amphibians serve as an indicator of wetland health? \$13,604
2007	Friends of Elk Island National Park. (PI) Can amphibians serve as an indicator of wetland health? \$1,350

TALKS AND SEMINARS

INVITED SEMINARS

- 2020 Florida Fish and Wildlife Annual Meeting, Florida, USA. Host: Beth Stys
- 2019 Depart. Ecology and Evolutionary Biology, University of Kansas. Host: Rafe Brown
- 2018 Depart. Ecology and Evolution, Stony Brook University. Host: Patricia Wright
- 2017 Depart. Biology, University of Florida. Host: Bob Holt
- 2017 Depart. Ecology and Evolutionary Biology, University of Connecticut. Host: Carlos Robledo-Garcia
- 2017 Depart. Ecology and Evolutionary Biology, University of California Berkeley. Host: Caroline Williams
- 2014 Depart. of Animal and Plant Sciences, University of Sheffield, UK. Host: David Edwards
- 2013 School of Biological Sciences, University of Queensland. Host: Luke Shoo
- 2013 A. Watson Armour Seminar Series, The Field Museum, Chicago, IL. Host: Larry Heaney
- 2012 Centre for Tropical Environmental and Sustainability Science, James Cook University, Australia. Host: William Laurance
- 2011 Dept. of Biology, Sewanee: University of the South. Host: Jon Evans

WORKSHOPS AND WORKING GROUPS

- 2020 Workshop, *The buffering capacity of forests in a warming world*. Oscar and Lili Lamms Minne Foundation, Stockholm, Sweden
- 2019 **Co-Organizer and convener.** Synthesis and writing workshop, *Climate change redistribution*. Species on the Move, Kruger National Park, South Africa
- 2017 Emerging Frontiers Workshop, *Co-extinctions and climate change*. Organization for Tropical Studies, La Selva, Costa Rica
- 2016 Synthesis and writing workshop, *Climate change redistribution*. Species on the Move, Tasmania, Australia
- Workshop, *Climate adaptation and scenario planning under climate change*. Florida Fish and Wildlife Conservation Commission, Homosassa Springs, FL, USA

- Working group, *Climate change vulnerability assessments*. IUCN Climate Change Specialist Group, Birdlife International, Cambridge, UK
- 2014 **Organizer and convener.** Workshop, *Exploring the velocity of climate change*. Association for Tropical Biology and Conservation, Cairns, Australia

CONFERENCE TALKS

- 2021 (Invited Symposium) 8th International Canopy Conference (delayed 1YR; COVID 19)
- 2019 Species on the Move conference, Kruger National Park, South Africa
- 2018 Association for Tropical Biology and Conservation, Borneo, Malaysia
- 2017 (Invited Symposium) Association for Tropical Biology and Conservation, Borneo, Malaysia
- 2017 (Invited Plenary) Florida Climate Institute conference, Florida, USA
- 2016 Species on the Move conference, Tasmania, Australia
- 2015 (Invited Symposium) Association for Tropical Biology and Conservation, SE Asia Chapter Meeting, Cambodia
- 2014 Association for Tropical Biology and Conservation, Queensland, Australia
- 2013 Association for Tropical Biology and Conservation, San Jose, Costa Rica
- 2013 Ecological Society of America, Oregon, USA
- 2012 Association for Tropical Biology and Conservation, Bonito, Brazil
- 2010 Association for Tropical Biology and Conservation, Bali, Indonesia
- 2008 Wildlife Society, Chapter Meeting, Alberta, Canada
- 2005 American Ornithological Society, Quebec, Canada

PUBLIC SPEAKING

- 2019 Invited public lecture on climate change and panel discussion, Public Interest Environmental Conference, UF Levin School of Law, Florida, USA
- World to Come, *Merging art and science to address climate change*. Harn Art Huseum, Gainesville, FL
- 2017 Featured speaker at March for Science, climate change speech. Gainesville, FL, USA
- 2017 Invited speaker, Facing the Tide, climate change event, Alachua Conservation Trust, FL, USA

PROFESSIONAL SERVICE AND LEADERSHIP

GENERAL SERVICE

- 2020 Contributor, IUCN Amphibian Conservation Action Plan, Surveys and Monitoring Working Group, Amphibian Specialist Group (IUCN-SSC, ASG)
- 2020 **Expert Reviewer,** United Nations Environment Program, Climate Adaptation Gap Report UNFCCC
- 2020 Guest Editor, Special Issue, Frontiers in Forests and Global Change
- 2019 Chair and Convener, *Species on the Move* climate change conference, Naples, FL, USA (May, 2023; delayed 1-yr COVID 19)
- 2020 Executive Board and Data Sharing Steering Committee, Center Valbio, Madagascar
- 2019 **Board Member,** Alachua County Land Conservation Board
- 2019 **Symposium Chair and Theme Leader**, Species on the Move Conference, Kruger National Park, South Africa
- 2017 Faculty Advisory Committee, Florida Climate Institute, University of Florida
- 2014 Steering Committee/Research Member, IUCN Climate Change Specialist Group
- 2017 2019 Advisory Board Member, Rise For The Earth, Climate change NGO

2016	Organizing Committee Member, Species on the Move climate change conference,
	Australia (2016)
2012 - 2015	Amphibian Specialist Group (IUCN-SSC, ASG), The Philippines
2015 - 2016	Research Associate, Field Museum of Natural History, Chicago, USA

PEER REVIEWER

Science • Ecology Letters • Proceedings of the National Academ of Sciences • Ecography • Proceedings Royal Society B • Trends in Ecology and Evolution • Global Change Biology • Global Ecology and Biogeograpy • Conservation Biology • Functional Ecology • Biology Letters • Oeceologia • Biological Conservation • Animal Conservation • Integrative and Comparative Biology • Biotropica • Landscape and Urban Planning • Global Ecology and Conservation • Amphibian and Reptile Conservation • International Journal of Biometeorology • Rangelands

GRANT REVIEWER

2020	Natural Environment Research Council, Pushing the Frontiers call, UK
2019	Czech Science Foundation, Czech Republic
2018	Marsden Fund, Royal Society Te Apārangi, New Zealand
2018	National Geographic Society conservation grant
2017	Rainforest Trust Conservation Grant
2017	National Geographic Society explorers grant

TEACHING

2020	Ecology of Climate Change, University of Florida
2020	Amphibians of SE USA, University of Florida
2019	Tropical Ecology and Climate Change (Study abroad in Ecuador), University of Florida and University of San Fransico – Quito
2019	Ecological Responses to Climate Change, University of Florida
2018	Tropical Ecology and Climate Change (Study abroad in Ecuador), University of Florida and University of San Fransico – Quito
2017	Ecological Responses to Climate Change, University of Florida
2017	Global Change Biology
2014	Tropical Ecology for Organization for Tropical Studies (OTS) and Xishuangbanna Tropical Botanical Gardens (XTBG) (sponsored by USA National Science Foundation and Chinese Academy of Science; 2014), Yunnan, China

Additional teaching at Post-doc and Graduate Student level:

Co-taught 2 courses (2013-2014; James Cook University, Australia), Teaching Assistant for 5 courses (2010-2011; National Univ. of Singapore), Teaching Assistant for 5 courses (2007-2009; University of Alberta, Canada), and 1 year high school (VA, USA)

MENTORING

POST-DOCTORAL RESEARCH FELLOW					
2019-2020	Dr. X	Dr. Xiaoli Fan (In-Lab visiting Research Scholar, Lishui University, China)			
2019	Dr. Y	Dr. Yiming Huan (visitation from SUSTEC, China)			
2019	Dr. Re	ebecca Senior (visitation from Princeton University)			
2016 - 2018	Dr. B	runno Oliveira			
PRIMARY AD	VISOR				
2020 -	BSc	Sierra Scauzillo Honors Thesis, University of Florida Topic: Characterizing the color niche of Appalachian salamanders			
2019 -	PhD	Alex Baecher University of Florida Topic: Predicting spatial connectivity and range shifts of terrestrial vertebrates			
2019 -	PhD	David Klinges University of Florida Topic: Forecasting microclimates across space and time			
2016 -	PhD	Edmund Basham University of Florida Topic: Climatic drivers of vertical stratification of amphibian communities			
2016 -	PhD	Lily Leahy (external co-Chair, James Cook University) Topic: The biogeography of vertical stratification in tropical ant communities			
2015 - 2018	PhD	Pamela Gonzalex del Pliego Castaneda (external co-Chair, Sheffield University) Amphibian conservation in the face of land-use change and global warming			
2016 - 2018	MSc	Jesse Borden University of Florida Ecological disturbances and canopy communities			
2016 - 2018	MSc	Farwah Shariff University of Florida Scaling thermal traits in space and time to understand thermal niche partitioning in aquatic macroinvertebrates			
2017	MSc	Wendtwoin Imelda Gécica Yogo (external Chair, AgroParisTech) Seasonality and microhabitats mediate inter- and intraspecific variation in the minimum and maximum thermal tolerances of mosquitoes			
2013 - 2016	PhD	Shuang Xing (external supervisor, University of Hong Kong) Morphological variation of tropical lepidoptera communities across environmental gradients and implications for climate change			
2016	MSc	Pauline Dufour (external Chair, Marie Currie University) Divergent melanism strategies in Andean butterfly communities structure diversity patterns and climate responses			
2016	MSc	RAKOTONIAINA "Lydou" Andriamahohatra (external Chair, University of Antananarivo)			

NEWS COVERAGE & PUBLIC OUTREACH

My research has been featured in over 200 news outlets.

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<u>Climate change is toppling tree frogs from rainforest canopies</u>. **Massive Science**, 7/12/2020 Biodiversity on the brink: The consequences of a weakened Endangered Species Act. **Yale**

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