

CURRICULUM VITAE

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EDUCATION

Ph.D., (Biology), University of Pennsylvania, 1985
M.Phil., (Biometry), Cambridge University, England, 1979
B.A., (Zoology), University of California, Berkeley, 1978

Professional Appointments:

2021 Clark Way Harrison Distinguished Visiting Professor, Washington University
2019 Visiting Scholar, University of Paul Sabatier, LabEx TULIP
2018 Laureate, Make Our Planet Great Again, Campus France, CNRS Moulis
2018 Visiting Professor, University Paul Sabatier
2015 - 2017 Visiting Professor, University of California, Berkeley,
Department of Integrative Biology and Museum of Vertebrate Zoology
2015 - Research Associate, California Academy of Sciences
2014 Adjunct Professor, Texas A&M University
2013 – 2015 Visiting Scientist, University of Brasilia
2009 – 2010 Visiting Professor, University of Paul Sabatier, Toulouse
2008 – 2009 Visiting Professor, Museum für Naturkunde, Berlin
2008 – Visiting Scientist, Station Theoretique et Expérimentale du CNRS Moulis,
France
2006 – 2007 Visiting Professor, James Cook University, Queensland, Australia
2005 – Full Professor
1994 – 1995 Visiting Associate Professor, Zoology, University of Washington
1991 – 2005 Associate Professor of Zoology, Ohio University
1985-1991 Assistant Professor of Zoology, Ohio University
1984-1985 Teaching Fellow, University of Pennsylvania
1984 Instructor (Adjunct), Cabrini College
1979-1981 Teaching Fellow, University of Pennsylvania

AWARDS, FELLOWSHIPS AND HONORS

2018 Laureate, Make Our Planet Great Again, Campus France, CNRS Moulis

1996 William's Lecturer, University of Akron, Department of Biology
1990 Participant, Morphometrics in Systematic Biology NSF Sponsored Workshop
1984-1985 I.B.M. Threshold Fellowship, University of Pennsylvania
1981-1984 PHS Training Grant in Theoretical and Integrative Biology, University of Pennsylvania, (PHS 5-T32-GM07517-05)
1979 - Elected Fellow, Cambridge Philosophical Society

OTHER PROFESSIONAL EXPERIENCE

2020 Handling Editor, *Oecologia*
2019 – Board of Editors, *Journal of Zoology*
2014 – 2015 Scientific Program Committee, 2nd Workshop on Ecological and Behavioral Physiology Responses of Organisms to Climate Change, Universidad Nacional del Comahue, Bariloche, Argentina
2014 Scientific Program Committee, Xth Latin American Congress of Herpetology
2000-2004 Board of Editors, *The American Naturalist*
1997-2000 Associate Editor, ECOLOGY/ECOLOGICAL MONOGRAPHS
1994-1998 Assembly of Delegates, Organization for Tropical Studies
1993-2004 Associate Editor, *Oecologia*

RECENT PROFESSIONAL DEVELOPMENT

2016 Introduction to Programming for Bioinformatics, Python Bootcamp for Genomics and Phenomics. California Institute for Quantitative Biosciences. University of California, Berkeley. 11 – 15 January.

2020 - Forward-Thinking Discussion on Biological Collections. AIBS Workshop.

PLENARY SPEAKER

2011 Australian Society of Herpetologists
2015 2nd Workshop “Ecological and Behavioral Physiology, Universitario Bariloche, Argentina

PUBLICATIONS (* - Undergraduate student, ** - Graduate student)

- Ibargüengoytía, N. R., M. Medina, A. Laspiur, D. B. Miles, B. Sinervo. (*In Press*). Effects of climate change on Liolaemidae. In *Las lagartijas de la Familia Liolaemidae: Sistemática, distribución e historia natural de una de las familias de vertebrados más diversas del cono sur de Sudamérica*.
- Huey, R. B., **D. B. Miles**, and E. R. Pianka. (2021) *Seasonality in Kgalagadi lizards: Inferences from Legacy Data*. *American Naturalist*.
- Silva, N. A., G. H. O. Caetano, P. H. Campelo, V. H. Gomes Lacerda Cavalcante, L. B. Godinho, **D. B. Miles**, H. M. Paulino, J. M. Alvarenga da Silva, B. A. de Souza, H. B. F. Silva, G. R. Colli. (2021) Effects of caudal autotomy on the locomotor performance of *Micrablepharus atticolus* (Squamata, Gymnophthalmidae). *Diversity* 13: 563 doi.org/10.3390/d13110562.
- Cosendey, B. N., B. Sinervo, C. F. D. Rocha, **D. B. Miles**, P. Almeida-Santos, P. Noguera-Costa, A. M. Vanderlaine. (*In Press*) How lizards handle climate change? A study on the stamina of *Glaucomastix littoralis* at different body temperatures. *Brazilian Journal of Ecology*.
- Ibargüengoytía, N.R., M. Medina, A. Laspiur, Y. Qu, S. C. Ausas, P. Augusto Ramirez, B. Sinervo, **D. B. Miles**. (*In Press*) Looking at the past to infer the future: Thermal traits track environmental change in Liolaemidae. *Evolution*
- Rutschmann, A., A. Dupoué, **D. B. Miles**, R. Megía Palma, M. Richard, D. Rozen-Rechels, A. Badiane, C. Lauden, M. Brevet, P. Blaimont, S. Meylan, J. Clobert, J.-F. Le Galliard. (2021) Nocturnal warming alters growth strategies, coloration, and parasite load in a diurnal lizard. *Journal of Animal Ecology*.
- Rozen-Rechels, D., A. Rutschmann, A. Dupoué, P. Blaimont, V. Chauveau, **D. B. Miles**, M. Guillon, M., Richard, A. Badiane, S. Meylan, J. Clobert, J.-F. Le Galliard, (2021) Interaction of hydric and thermal conditions drive geographic variation in thermoregulation in a widespread lizard. *Ecological Monographs*. e01440.
- Lara-Resendiz, R. A. P. Galina-Tessaro, B. Sinervo, **D. B. Miles**, J H. Valdez-Villavicencio, F. I. Valle-Jiménez, F. R. Méndez-de La Cruz (2021) How will climate change impact fossorial lizard species? Two examples in the Baja California Peninsula. *Journal Thermal Biology*.
- Miles, D. B.**, (2020) Can morphology predict the conservation status of Iguanian lizards? *Integrative and Comparative Biology*. 60: 535-548.
- Romero-Báez, O., R. Santos-Bibiano, M. A. Domínguez-Godoy, **D. B. Miles**, and F. J. Muñoz-Nolasco. (2020). Thermal ecophysiology of a native and a non-native gecko species in a tropical dry forest of Mexico. *Journal of Thermal Biology* 90: 102607.
- Rutschmann, A., D. Rozen-Rechels, A. Dupoué, P. Blaimont, P. de Villemereuil, **D. B. Miles**, M. Richard, and J. Clobert. (2020) Climate dependent heating and cooling efficiency in the common lizard. *Ecology and Evolution*. 10: 8007-8017.
- Farallo **, V. R., J. Uyeda, M. M. Muñoz, and **D.B. Miles**. (2020) Niche evolution varies depending on geographic scale: Implications for climate change. *Evolution* 74: 979 - 991. (cover photo).
- Caetano, G. H. O., G. Colli, **D. B. Miles**, J. C. Santos, et al. (2020) Time of activity is a better predictor of the distribution of a tropical lizard than environmental temperature. *Oikos* 129: 953-963.
- Dupoué, A, P. Blaimont, D. Rozen-Rechels, M. Richard, S. Meylan, J. Clobert, **D. B. Miles**, R. Martin, B. Decencièrre, S. Agostini, J.-F. Le Galliard. (2020) Water availability and

- temperature induce oxidative status during pregnancy in a viviparous lizard (*Zootoca vivipara*) *Functional Ecology* 34: 475-485.
- Sinervo, B, A. Chaine, **D. B. Miles**. (2020) Social games and genic selection drives mammalian mating system evolution and speciation. *American Naturalist* 195: 247 – 254.
- Wu, Q. **, M. Richard, A. Rutschmann, **D. B. Miles**, and J. Clobert. (2019) Environmental variation mediates the prevalence and co-occurrence of parasites in the common lizard, *Zootoca vivipara*. *BMC Ecology* 19:1-11.
- Garcia-Porte, J., J. Garcia-Porta, I. Irisarri, M. Kirchner, A. Rodríguez, S. Kirchhof, J. L. Brown, A. MacLeod, A. P. Turner, F. Ahmadzadeh, G. Albaladejo, J. Crnobrnja-Isailovic, I. De la Riva, A. Fawzi, P. Galán, B. Göçmen, D. J. Harris, O. Jiménez-Robles, U. Joger, O. J. Glavaš, M. Kariš, G. Koziel, S. Künzel, M. Lyra, **D. B. Miles**, et al. (2019) Phylogenomic relationships of lacertid lizards reveal physiological and functional genomic adaptation to climate. *Nature Communications*. 10: 1-12.
- Gilbert, A. L. ** and **D. B. Miles** (2019a) Spatiotemporal variation in thermal niches suggests lability rather than conservatism of thermal physiology along an environmental gradient. *Biological Journal of the Linnean Society*. 128: 263-277.
- Gilbert, A. L. ** and **D. B. Miles** (2019b) Antagonistic Responses of Exposure to Sublethal Temperatures: Adaptive Phenotypic Plasticity Coincides with a Reduction in Organismal Performance. *American Naturalist* 194: 344-355.
- Fierro-Estrada N., Y. G. González-González, M. Martínez Gómez, A. García, F. R. Méndez de la Cruz, and **D. B. Miles**. (2019) Thermoregulation of the lizard *Barisia imbricata* at altitudinal extremes. *Amphibia-Reptilia* 40: 349 – 360.
- Hazard, L. C., K. A. Nagy, **D.B. Miles**, E. I. Svensson, D. Costa and B. Sinervo. (2019) Phenotypic integration, physiological performance, and survival in a lizard (*Uta stansburiana*) with alternative mating strategies. *Physiological Zoology and Biochemistry*. 92: 303-315.
- Whiting, M. J. and **D. B. Miles**. (2019) Behavioral ecology of aggressive behavior in lizards In *Behavior of Lizards: Evolutionary and Mechanistic Perspectives* (Bels, V. and Russell, A., eds) CRC Press.
- Salem, S. B. D. B. Miles, A. A. Alm Eldeen, R. M. Kandyel (2019) Scanning electron microscope studies of the dorsal lingual surface of some reptilian species. *Egypt. J. Exp. Biol. (Zool.)*, 15: 219 – 228.
- Farallo, V. R. **, R. Wier *, and **D. B. Miles**. (2018) The Bogert effect revisited: Salamander regulatory behaviors are differently constrained by time and space. *Ecology and Evolution*. 8: 11522-11532.
- Gomez-Alés, R., J. C. Acosta, V. Astudillo, M. Códoba, G. M. Blanco, **D. Miles** (2018) Effect of temperature on the locomotor performance of species in a lizard assemblage in the Puna region of Argentina. *Journal of Comparative Physiology B* 188: 977 - 990
- Logan, M.L., J. D. Curlis, A. L. Gilbert **, **D.B. Miles**, A. Chung, J. W. McGlothlin, R. M. Cox (2018) Thermal physiology and thermoregulatory behaviour exhibit low heritability despite genetic divergence between lizard populations. *Proceedings Royal Society London B* 285 (1878) 20180697.
- Dupoué, A., A. Rutschmann **, J.-F. Le Galliard, J. Clobert, J., P. Blaimont, B. Sinervo, **D. Miles**, C. Haussy, S. Meylan. (2018) Climate warming and drying induce population extinction despite a reduction of baseline corticosterone in wild lizards. *Journal of Animal Ecology*. 87: 1331-1341

- Octavio A.-O., A. F. Johnson, M. Agha, E. B. Allen, ... , **D. B. Miles** et al. (2018) Harnessing Cross-border Resources to Confront Climate Change. *Environmental Science and Policy Journal*. (Total of 91 authors) 87:128 – 132.
- Diele-Viegas, L. **, L. J. Vitt, B. R. Sinervo, G. R. Colli, F. P. Werneck, **D. B. Miles**, W. E. Magnusson, J. C. Santos, C. M. Sette **, G. H. O. Caetano **, E. Pontes **, T. C. S. Ávila-Pires. (2018) Thermal physiology of Amazonian lizards (Reptilia: Squamata). *PLoS One* 13: e0192834.
- Pontes-da- Silva, E **, W. E. Magnusson, B. R. Sinervo, G. H. Caetano **, **D. B. Miles**, G. R. Colli, L. M. Diele-Viegas **, J. Fenker, J. C. Santos and F. P. Werneck. (2018) Extinction risks forced by climatic change and intraspecific variation in the thermal physiology of a tropical lizard. *Journal of Thermal Biology* 73: 50-60.
- Sinervo, B, Q. Yin, **D. B. Miles**, and Fausto Mendez de la Cruz (2018) Climate change, thermal niches, extinction risk and maternal-effect rescue of Toad-headed lizards, *Phrynocephalus*, in thermal extremes of the Arabian Peninsula to the Tibetan Plateau. *Integrative Zoology* 13:450-470.
- Salem, S. B., **D. B. Miles**, A.A. Alm-Eldeen, and R.M. Kandyl** (2017). Comparative histological characterization of the tongue in two reptiles, *Scincus scincus* (Scincidae) and *Uromastix ornata* (Agamidae) in relation to diet. *Egypt. J. Exp. Biol. (Zool)*. 13: 319 - 327. DOI: 10.5455/egysebz.20171214034607
- Kirchhof, S. **, R. S. Hetem, H. M. Lease, **D.B. Miles**, D. Mitchell, J. Müller, M.-O. Rödel, B. Sinervo, T. Wassenaar, and I. W. Murray (2017) Thermoregulatory behaviour and high thermal preference buffer impact of climate change in a Namib Desert lizard. *Ecosphere*. 8: e02033.
- Dupoué, A., A. Rutschmann **, J. F. Le Galliard, J. Clobert, F. Angelier, C. Marciau, S. Ruault, **D. B. Miles**, S. Meylan. (2017) Extremely short telomeres precede population extinction in wild lizards. *Scientific Reports*.
- Dupoué, A., A. Rutschmann **, J.-F. Le Galliard, **D. B. Miles**, J. Clobert, D. F. DeNardo, G. A. Bruschi, S. Meylan (2017) Water availability and environmental temperature correlate with geographic variation in water balance in common lizards (*Zootoca vivipara*). *Oecologia* 185: 561-571.
- Gilbert, A. ** and **D. B. Miles**. (2017) Natural Selection on Thermal Preference, Critical Thermal Maxima, and Locomotor Performance. *Proceedings of the Royal Society London B* 284: 2017536. DOI: 10.1098/rspb.2017.0536.
- Vicenzi, N. **, V. Corbalán, **D.B. Miles**, B. Sinervo, and N. Ibarregüengoytia (2017) Predicting extinction risk for the high-Andean lizard *Phymaturus palluma* using eco-physiological modelling. *Biological Conservation* 206: 151 - 160.
- Meylan, S., F. Lallemand, C. Haussy, J. Bleu **, and **D. B. Miles** (2017) Arginine vasotocin inhibits social behavior and enhances essential activities in the common lizard (*Zootoca vivipara*). *General and Comparative Endocrinology* 243: 10 - 14.
- Williams, K. A. ** and **D. B. Miles** (2016) Demographic costs associated with differences in habitat space occupancy. *PLoS One*. 11 (11), e0165472
- Rutschmann, A. **, **D. B. Miles**, J. Clobert, M. Richards (2016a) Warmer temperatures attenuate the classic offspring quality and number trade-off in the common lizard, *Zootoca vivipara*. *Biology Letters* 12: 20160101

- Gilbert, A. **, **D. B. Miles** (2016) Food, temperature, and endurance: Effects of food deprivation on the thermal sensitivity of physiological performance. *Functional Ecology* 30:1790 - 1799.
- Lattanzio **, M. and **D. B. Miles** (2016) Trophic niche divergence among colour morphs that exhibit alternative mating strategies. *Royal Society Open Science* 3: 150531.
DOI: 10.1098/rsos.150531.
- Lattanzio **, M. and **D. B. Miles** (2016) Stable carbon and nitrogen isotopic discrimination and turnover in a small-bodied insectivorous lizard. *Isotopes in Environmental and Health Studies*. dx.doi.org/10.1080/10256016.2016.1154854.
- Farallo **, V. and **D.B. Miles** (2016) The importance of microhabitat: a comparison of two microendemic *Plethodon* species to the widespread *P. cinereus*. *Copeia*. 2016: 67-77.
- Rutschmann **, A., **D. B. Miles**, J.-F. Le Galliard, M. Richard, S. Moulherat, B. Sinervo and J. Clobert (2016b) Climate and habitat interacts to shape the thermal reaction norms of breeding phenology across lizard populations. *Journal of Animal Ecology*.
DOI: 10.1111/1365-2656.12473
- Hipsley, C. A. **, **D. B. Miles**, J. Müller (2014) Morphological disparity opposes a latitudinal diversity gradient in lacertid lizards. *Biology Letters* 10: doi:10.1098/rsbl.2014.0101.
- Lattanzio **, M. and **D. B. Miles** (2014) Ecological divergence among colour morphs mediated by changes in spatial network structure associated with disturbance. *Journal of Animal Ecology* 83: 1490 – 1500. doi: 10.1111/1365-2656.12252
- Lattanzio **, M., K. Metro **, and **D.B. Miles** (2014) Preference for Male Traits Differ in Two Female Morphs of the Tree Lizard, *Urosaurus ornatus* PLoS One. DOI 10.1371/journal.pone.0101515
- Beal **, M., M. Lattanzio **, **D.B. Miles** (2014) Differences in the thermal physiology of adult Yarrow's spiny lizard (*Sceloporus jarrovi*) in relation to sex and body size. *Ecology and Evolution* 4: 4220 – 4229.
- Meylan, S., M. Richard, S. Bauer, C. Haussy, and **D. Miles** (2013) Costs of mounting an immune response during pregnancy in a lizard. *Physiological and Biochemical Zoology* 86: 127 - 136.
- Zajitschek, S.R.K., F. Zajitschek, **D.B. Miles**, and J. Clobert (2012) The effect of coloration and temperature on sprint performance in male and female wall lizards. *Biological Journal of the Linnean Society* 107: 573-582.
- Medina M., Sclaro A., Méndez-De la Cruz F., Sinervo B., **Miles D.**, Ibarguengoytia N. (2012) Thermal biology of the genus *Liolaemus* a phylogenetic approach reveals advantages of the genus to survive climate change. *Journal of Thermal Biology* 37:579-586.
- Meylan, S., **D. B. Miles**, J. Clobert (2012) Hormonally mediated Maternal Effects, Individual Strategy and Global Change. *Philosophical Transactions of the Royal Society* 367: 1647-1664.
- Sinervo, B. and **D. B. Miles** (2011) Hormones and the Reproductive Behavior in Reptiles. *Biology of the Reptilia*. Elsevier.
- Sinervo, B., **D. B. Miles**, N. Martinez-Mendez, R. Lara-Resendiz, and F. R. Mendez De La Cruz (2011) Response to comment on “Erosion of lizard diversity by climate change an altered thermal niches. *Science* 332: 537 – 538.
- Heulin, B., Y. Surget-Groba, B. Sinervo, **D. Miles**, A. Guiller (2011) Dynamics of haplogroup frequencies and survival rates in a contact zone of two mtDNA lineages of the lizard *Lacerta vivipara*. *Ecography* 34: 436 – 447.

- Sinervo, B., F. Mendez de la Cruz, **D. B. Miles**, et al. (2010) Erosion of lizard diversity by climate change and altered thermal niches. *Science* 328: 894 – 899.
- Farris, K., S. Converse, S. Zack, W. Gaines, **D. B. Miles** et al. (2010) Short-term Effects of Fire and Fire Surrogate Treatments on Avian Nest Survival: A National-Scale, Interdisciplinary Analysis. *Open Environmental Sciences* 4: 53 – 62.
- Streby, H. M^{**}. and **D. B. Miles** (2010) Effects of prescribed burns and shelterwood harvests on nesting success of neotropical migratory birds. *Open Environmental Sciences* 4: 31 – 40.
- Goodman, B.A. **D. B. Miles**, L. Schwarzkopf. 2008. Life on the rocks: habitat use drives morphological and performance evolution in lizards. *Ecology* 89: 3462-3471.
- Mills, S. C., L. Hazard, L. Lancaster, T. Mappes, **D. B. Miles**, T. A. Oksanen, and B. Sinervo (2008) Gonadotropin hormone modulation of testosterone, immune function, performance and behavioral tradeoffs among male morphs of the lizard, *Uta stansburiana*. *American Naturalist* 171: 339 – 357.
- Sinervo, B., J. Clobert, **D. B. Miles**, A. McAdam, and L. T. Lancaster (2008) The role of pleiotropy vs. signaller–receiver gene epistasis in life history trade-offs: dissecting the genomic architecture of organismal design in social systems. *Heredity* 101: 197 – 211.
- Miles, D. B.**, J. B. Losos, and D. J. Irschick (2007) Morphology, performance and foraging mode. *In Lizard Ecology*. (S. M. Reilly, D. B. Miles and L. McBrayer, eds). Cambridge University Press, England. Pp 49 - 93.
- McBrayer, L. D., **D. B. Miles**, and S. M. Reilly (2007) The evolution of the foraging mode paradigm in lizard ecology. *In Lizard Ecology*. (S. M. Reilly, D. B. Miles and L. McBrayer, eds). Cambridge University Press, Cambridge, England. Pp. 508 - 521.
- Miles, D. B.**, B. Sinervo, L. Hazard, E. Svensson, and D. Costa (2007) Alternative Mating Strategies: Integrating Hormones, Physiology and Behavior. *Functional Ecology* 21: 653 - 665.
- Miles, D. B.**, B. Sinervo, and R. Calsbeek (2007) Corticosterone, locomotor performance, and metabolism in side-blotched lizards (*Uta stansburiana*) *Hormones and Behavior* 51: 548 - 555
- Sinervo, B, B. Heulin, Y. Surget-Groba, J. Clobert, **D. B. Miles**, A. Corl^{**}, A. Chaine, and A. Davis^{**} (2007) Models of density-dependent genic selection and a new rock-paper scissors social system. *American Naturalist* 170: 663 – 680.
- Miles, D.B.** (2004). The race goes to the swift: Fitness consequences of variation in sprint performance in juvenile lizards. *Evolutionary Ecology Research* 6: 63 – 75.
- Fazio III, V. W. ^{**}, **D. B. Miles**, and M. M. White. (2004) Allozyme variation and population structure in the endangered Black-capped Vireo, *Vireo atricapillus*. *The Condor* 106: 377 – 385.
- Losos, J. B. and **D. B. Miles** (2002) Testing the hypothesis that a clade has adaptively radiated: Iguanid lizard clades as a case study. *The American Naturalist* 160: 147 – 157.
- Miles, D. B.** R. Noecker ^{**}, M. M. White, and W. Roosenburg (2002) Genetic relationships among populations of *Sceloporus undulatus* fail to support subspecific designations. *Herpetologica* 58: 277-292.
- Miles, D. B.**, H. L. Snell, and H. M. Snell (2001) Intrapopulation variation in endurance of Galápagos lava lizards (*Microlophus albemarlensis*): evidence for an interaction between natural and sexual selection. *Evolutionary Ecology Research* 3: 795 – 804.
- Vitt, L. J., S. S. Sartorius, T.C.S. Avila-Pires, M. C. Espósito and **D. B. Miles**. (2000) Niche segregation among sympatric Amazonian teiid lizards. *Oecologia* 122: 410 – 420.

- Robson, M. A. ** and **D. B. Miles** (2000) The association between social dominance and physiological performance in a lizard. *Functional Ecology* 14: 338 – 344.
- Miles, D. B.**, B. Sinervo, and W. A. Frankino** (2000) Reproductive burden, locomotor performance, and the cost of reproduction in free-ranging lizards. *Evolution* 54: 1386 - 1395.
- Sinervo, B., **D. B. Miles**, W. A. Frankino**, D. DeNardo, and M. Klukowski* (2000) Testosterone, endurance and Darwinian fitness: Natural and sexual selection on the physiological bases of alternative male behaviors in side-blotched lizards. *Hormones and Behavior* 38: 222-233.
- Warheit, K. I., J. D. Forman, J. B. Losos, and **D. B. Miles** (1999) Morphological diversification and adaptive radiation: A comparison of two diverse clades. *Evolution* 53: 1226 - 1234
- Miles, D. B.** and A. E. Dunham (1996) Paradox of the Phylogeny: Character displacement of analyses of body size evolution in island *Anolis*. *Evolution* 50: 594-603.
- Miles, D. B.**, L. A. Fitzgerald, and H. L. Snell (1995) Morphological correlates of locomotion in hatchling marine iguanas (*Amblyrhynchus cristatus*). *Oecologia* 103: 261-264.
- Ricklefs, R. E. and **D. B. Miles** (1994) Ecological and evolutionary inferences from morphology: An Ecological Perspective. *In Ecological Morphology: Integrative Organismal Biology*. P.C. Wainwright and S.M. Reilly, (eds.) pp. 13-41. University of Chicago Press.
- Losos, J. B. and **D. B. Miles** (1994) Adaptation, constraint, and the comparative method: Phylogenetic issues and methods. *Ibid.* pp. 60-98.
- Miles, D. B.** (1994) Covariation between Morphology and Locomotory Performance in Sceloporine Lizards. *In Lizard Ecology: Historical and Experimental Perspectives*, L.J. Vitt and E.R. Pianka (eds.) pp 207-235. Princeton University Press.
- Miles, D. B.** (1994) Population Differentiation in Locomotory Performance and the Potential Response of a Terrestrial Organism to Global Environmental Change. *American Zoologist* 34: 422-436.
- Miles, D. B.** (1994) Introduction to the Symposium: Contribution of Long Term Ecological Research to Current Issues in the Conservation of Biological Diversity. *American Zoologist* 34: 367-370.
- Miles, D. B.**, and A. E. Dunham (1993) Historical Perspectives in Ecology and Evolutionary Biology: The Use of Phylogenetic Comparative Analyses. *Annual Review of Ecology and Systematics*. 24: 587-619.
- Miles, D. B.** and A. E. Dunham (1992) Comparative analysis of phylogenetic effects in the life history patterns of Iguanid Reptiles. *American Naturalist* 139: 848-869.
- Reznick, D. N., **Miles, D. B.**, and S. Winslow (1992) Life History Variation of *Poecilia picta* (Poeciliidae) from the island of Trinidad. *Copeia* 1992: 782-790.
- Miles, D. B.** (1990) A comparison of three multivariate statistical techniques for the analysis of avian foraging data. *Studies in Avian Biology* 13: 295-308.
- Miles, D. B.** (1990) Importance and consequences of temporal variation in avian foraging behavior and resource exploitation. *Studies in Avian Biology*. 13: 210-217.
- Petter, S.**, **D. B. Miles**, and M. M. White (1990) Genetic evidence of a mixed reproductive strategy in an "apparently" monogamous bird. *Condor* 92: 702-708.
- Reznick, R. N. And **D. B. Miles** (1989) A review of life history patterns in Poeciliid fishes. *In: Evolution and ecology of Poeciliid fishes*. (G.K. Meffe and F.F. Snelson eds.) pp. 125-147.
- Dunham, A. E., **D. B. Miles**, and D. N. Reznick (1988) Life history patterns of squamate

reptiles. In: *Biology of the Reptilia*, Vol 16, Ecology B. (C. Gans and R.B. Huey, eds.) pp. 441-522. New York, Liss.

Miles, D. B. And R. G. Smith (1987) A computerized racetrack for measuring sprint speed in cursorial animals. *Functional Ecology* 1: 281-286.

Miles, D. B., R. E. Ricklefs, and J. Travis (1987) Concordance of eco-morphological relationships in three assemblages of passerine birds. *American Naturalist* 129: 347-364.

Miles, D. B. (1986) An incidence of Brown-headed Cowbird parasitism of Rufous-crowned Sparrows. *Southwestern Naturalist* 31:253-254.

Dunham, A. E. and **D. B. Miles** (1985) Patterns of covariation in life history traits of squamate reptiles: the effects of size and phylogeny reconsidered. *American Naturalist* 126: 231- 257.

Miles, D. B. And R.E. Ricklefs (1984) The correlation between ecology and morphology in deciduous forest passerine birds. *Ecology* 65: 1629-1640.

Books

Lizard Ecology: The evolutionary consequences of foraging mode (2007) Edited by S. M. Reilly, L. D. McBrayer, and **D. B. Miles**. Cambridge University Press, Cambridge, England.

Papers in Review

Machado, L.P.C. G.H.O. Caetano, V.H.L. Cavalcante, **D.B. Miles**, G.R. Colli. Climate change shrinks environmental suitability for a viviparous Neotropical skink. Submitted to *Global Change Biology*.

Sinervo, B., and **D. B. Miles**^{***}. The human mating system and a rock-paper-scissors game for LGBT-Heterosexuals across the sexes. Submitted to *Nature*.

Goerge, T. ^{**} and **D. B. Miles** Testing the Pace-of-Life Syndrome: Thermal and Behavioral Correlates of Push-up Display Rate in *Urosaurus ornatus*. Submitted to *Ethology*.

Martin, R.N^{*}, **D. B. Miles**, A. Gilbert, S. Kirchhof, L. McBrayer, S. Clusella-Trullas, N. Ibarquengoytía, M. Medina, B. Sinervo, E. Pianka, and R. B. Huey. Move, Adapt or Perish: Responses of a Kalahari lizard to 50 years of climate change. Submitted to *Global Change Biology*

Piantoni, C., N. R. Ibarquengoytía, C. A. Navas, and **D. B. Miles**. Intraspecific variation of the thermal sensitivity in lizards of the Cerrado based on the variation in the locomotor performance. Submitted to *Global Environmental Change*.

Gilbert, A, and **D. B. Miles**. Evolutionary Decoupling of Thermoregulatory Behavior and Thermal Physiology. Submitted to *Proceedings of the Royal Society B*.

Lara-Resendiz, R. A, P. C. Rosen, B. Sinervo, **D. B. Miles**, F.R. Méndez-de La Cruz. Thermal quality to *Gopherus evgoodei* at the tropical deciduous forest and the consequences of habitat modification by buffelgrass. Submitted to *Journal of Thermal Biology*.

^{***}Corresponding author

Papers in Revision

- Angeli, N.F.^{**}, **D. B. Miles**, and L. A. Fitzgerald. Hotter temperature tolerance for ectotherms facing threats from an invasive predator. To be submitted to *American Naturalist*.
- Sinervo, B.^{***}, **D. B. Miles**^{***}, J. Lovich, R.B. Huey, et al. (34 coauthors). Desert tortoises race against climate change: past, present and future.
- Sinervo, B., **D. B. Miles**, B. Heulin, J. Clobert (*Revision in to be submitted*) Lizard extinctions and demographic collapse in response to extreme climate events.
- Williams, K.^{**} and **D.B. Miles**. (*Revision to be submitted*) A conceptual framework for the analysis of individual variation in behavior in natural population. *Integrative and Organismal Biology*
- Diele-Viegas, L. M., V. A. Menezes, B. Sinervo, **D. B. Miles** and C. F. D. Rocha. (*Revision to be submitted*) Climate change implications on thermal biology of the African hallow in South America, the endemic skink *Trachylepis atlantica*. *Biological Conservation*.
- Wu, Q., **D. B. Miles**, M. Richard, A. Rutschmann, and J. Clobert. Intraspecific diversity alters the relationship between climate change and parasitism—Evidence from spatio-temporal data in a polymorphic ectotherm. Revision submitted to *Global Change Biology*.

Papers in preparation

- Joos, J.^{**}, C. Pimiento, **D.B. Miles**, and J. Müller. Megafauna extinction altered body size distribution in tortoises. To be submitted to *Proc. Roy. Soc. B*.
- Miles, D. B.**, J. Müller, B. Sinervo, J. Lovich, R. Resendiz, F. Mendez de la Cruz, R. B. Huey. Evolution of body temperature and thermoregulatory mode in the world's Tortoises. *In prep*. To be submitted to PNAS.
- Zamorano, L. S., **D. B. Miles**, Terry Irwin, and D. Kavanaugh. Patterns of diversification in a continental radiation of ground beetles (Coleoptera: Carabidae: Lachnophorini).
- Zamorano, L. S., **D. B. Miles** and Terry Irwin. Collapse of an Amazonian arthropod community in response to climate change.

SOFTWARE

- Caetano, G., Santos, J. C., **Miles, D.** & Sinervo, B. Mappinguari v0.0.1. A species distribution modeling package premised on eco-physiological traits. *Zenodo* (2017).

ARTICLES IN THE POPULAR PRESS

- Huey, R. B. and **D. B. Miles** 2014. Is the sand too hot for the lizards? *SANPark Times* p. 46.
- Huey, R. B. and **D. B. Miles** 2017. The dunes are alive -- with the sound of barking. *SANPark Times*

COLLABORATIONS

Alexis Chaine, CNRS, Experimental Ecology Research Station Moulis, France
Jean Clobert, CNRS, Experimental Ecology Research Station, Moulis, France
Patrick Fitze, Museum of Natural History, Madrid, Spain
Lee Fitzgerald, Texas A&M University
Brett Goodman, University of Adelaide
Raymond B. Huey, University of Washington
Nora Ibarquengoytia, University of Bariloche
Lance McBrayer, Georgia Southern University
Fausto Mendez de la Cruz, UNAM, Mexico
Jonathan Losos, Washington University
Johannes Müller, Humboldt-Universität zu Berlin, Museum für Naturkunde, Berlin, Germany
Rafa Lara Resendiz, UNAM, Mexico
Phil Rosen, University of Arizona
Alexis Rutschmann, CNRS Experimental Ecology Research Station, Moulis, France
Leslie Ruyle, Texas A&M University
Lin Schwarzkopf, James Cook University
Barry Sinervo, University of California, Santa Cruz
Howard Snell, University of New Mexico
Martin Whiting, Macquarie University, Sydney, Australia

GRANTS

- 1980** An eco-morphological analysis of six tropical lowland forest bird communities. American Museum of Natural History (Chapman Memorial Fund and Sigma Xi)
- 1981** The relationship between morphology and ecology in a Sonoran desert bird community. Explorers Club.
- 1982** Patterns in morphology and ecology in two Sonoran desert bird communities. Frank M. Chapman Memorial Fund and Sigma Xi.
- 1983** Species turnover along an habitat gradient in two Sonoran Desert avian communities. Frank M. Chapman Memorial Fund.
- 1985** Estimating the performance gradient for species of *Urosaurus*. American Museum of Natural History (Theodore Roosevelt Memorial Fund).
- 1986** Estimating the performance gradient for saxicolous and arboreal species of *Urosaurus*. Ohio University Research Committee (\$4000.00).
- 1986** The winter exploitation system of Eastern Bluebirds. Ohio Department of Natural Resources (\$1780.00).
- 1987** A comparative analysis of the relationship between morphology and locomotion in Iguanid lizards. NSF (three year grant, \$84,000.00).
- 1988** Comparative analysis of the relationship between morphology and locomotion in iguanid lizards. NSF REU supplement (one year award, \$7,900).
- 1989** Comparative analysis of the relationship between morphology and locomotion in Iguanid lizards. NSF REU supplement (one year award, \$5,700).
- 1990** A comparative analysis of the relationship between morphology and locomotion in Sceloporine lizards. NSF LTER supplement. \$23,000.
- 1990** Comparative analysis of the relationship between morphology and locomotion in

- Iguanid lizards. NSF REU supplement. \$7900.
- 1991** Geographic variation in locomotion and morphology in *Urosaurus ornatus*. National Geographic Society, \$13,501.
- 1992 – 1996** The roles of natural selection and sexual selection in the evolution of sexual dimorphism in body-size. Co-PI with Howard Snell, University of New Mexico. NSF \$191,000. (IBN 92-07895)
- 1993** Estimation of the phylogenetic relationships among North American Sceloporine lizards (Phrynosomatidae). OU Baker Fund, \$8000.00 (PI with Matthew White)
- 1994 - 1995.** Spatial analysis of vertebrate habitat use in the Jornada Experimental Range. Coalition for International Environmental Recovery and Assessment. \$17,500
- 1995** Organismal response to global environmental change. Ohio University Post-Doctoral Fellowship (\$20,000).
- 1999** *ORNIS*: A cyber field guide/laboratory manual: A web-accessible interactive learning environment for classroom, laboratory and field environments. Ohio University, Technology Initiative Award, \$12,275.00
- 1999** The interaction between natural and sexual selection in the evolution of sexual size dimorphism in Galapagos lava lizards: (Tropiduridae: *Microlophus*). Baker Award Committee, \$9,300.00
- 2000 - 2005** A national study of the consequences of fire and fire surrogate treatments. USDI – USDA Joint Fire Science Program: \$213,000.
- 2001** Effects of Fire and Fire Surrogates on Chiropteran and Flying Squirrel populations. \$24,000. USDI – USDA Joint Fire Science Program
- 2002** Effects of Fire and Fire Surrogates on Chiropteran populations. \$6,000. USDI – USDA Joint Fire Science Program
- 2003** Correlational selection on physiology and alternative male strategies. Co-PI with Barry Sinervo, Lisa Hazard, and Daniel Costa. NSF \$220,000, 2003 – 2006.
- 2004** Voinovich Undergraduate Research Scholarship. Ohio University \$3000.
- 2005** Correlational selection and alternative mating strategies. National Geographic Society. Co-PI with B. Sinervo, A. Corl and S. Kuchta. \$20,000.
- 2008.** Synergistic effects of Atrazine and Chytrid Fungus on Tadpole Development. IUCN SSC Amphibian Specialists Group Seed Grant. \$1650.
- 2009.** Detecting sublethal responses of lizards to human managed landscapes using Stable Isotope Assays and Stress Hormones. Ohio University Research Committee. \$6700.
- 2010.** Effect of Light and Temperature Cycles and Climate Change on Adaptation in Lizards. CoPI with Sinervo, B., D. Parapijpe. NSF \$476,000.
- 2013.** Quantifying climate-forced extinction risks for lizards, amphibians, fishes, and plants. Co-PI with Sinervo, B., and J. Pitterman. NSF \$885,000.
- 2015.** Will Behavioral Compensation Buffer Species Loss in a Warming Climate? Ohio University Research Committee. \$8000.
- 2016.** Assessment of Extinction Risk of Kgalagadi Lizards: The roles of climate change, habitat modification and phenology. Ohio University Baker Fund. \$11,998.
- 2018.** University of Toulouse: Campaign for Recruitment of External (International) Visiting Professors. €5000.00
Integrating temporal and spatial variation in biophysical attributes with ecophysiological and demographic data to predict extinction and persistence of ectothermic vertebrate populations. French Embassy: Make Our Planet Great Again. €10000.

Global Travel Award, Ohio University \$750

2019. TULIP. Visiting Scholar. University of Toulouse. €3500

Centre d'Étude de la Biodiversité Amazonienne (CEBA) €15000

Honors Tutorial College, Ohio University – Research Apprenticeship \$3000

2020. NSF. OPUS Conceptual and analytical synthesis of ecomorphological insights into diversification and adaptation. \$209,451

2021. “Metabolic Meltdown” Ohio University Research Committee \$8000.

TEACHING

Courses Taught at Ohio University

BIOS 2200 Biodiversity and Conservation Biology
BIOS 2750 Introduction to Animal Ecology
BIOS 2710 Field Ornithology
BIOS 3760 Field Ecology
BIOS 4050 Comparative Methods in Evolutionary Morphology
BIOS 4710 Ornithology*
BIOS 4770 Population Ecology*
BIOS 4780 Community Ecology*
BIOS 4810 Conservation Biology*
BIOS 4920 Advanced Evolutionary Biology
BIOS 4920 Physiological Ecology
BIOS 5770 Graduate Course in Population Ecology
BIOS 5780 Graduate Course in Community Ecology
BIOS 5810 Graduate Course in Conservation Biology*
BIOS 6830 Graduate Colloquium in Animal Behavior
BIOS 6830 Modeling in Ecology and Evolutionary Biology using R*
BIOS 6830 Modern Comparative Methods*
BIOS 6830 Graduate Student Core Course: Foundations in Ecology and Evolution
BIOS 7970 Seminar in Conservation Biology*
BIOS 8700 Biostatistics II: Multivariate Statistics*

*Courses I developed at Ohio University.

Course Taught at Washington University, St. Louis, MO

Biol 4138 Global Environmental Change and Thermal Ecology

Honors Instruction

BIOS 1990T Freshman Honors Tutorial in Evolution and Ecology,
BIOS 2970T Honors Tutorial in Evolutionary Physiology
BIOS 2990T Sophomore Honors Tutorial
BIOS 3970T Honors Tutorial in Adaptive Phenotypic Plasticity
BIOS 4990T Senior Honors Tutorial

Invited Lectures

Behavioral Ecology, Department of Zoology, University of Washington, Seattle, Spring 1995
Methods in Field Ornithology, Department of Tropical and Marine Biology, James Cook
University, Queensland Australia, Spring 2008
Physiological Responses to Climate Change in Ectotherms: Physiological Ecology Ohio
University, Spring 2012 (2 lectures)

Altered Thermals Niches and Extinction Risk in Lizards (OU Environmental Studies Capstone Course 2012)

Extinction of Desert Tortoises. Geography 3060X. (Physical and Global Dimensions of Climate Change. Fall 2018)

Wildlife Biology. University College Ohio University UC1900.

Topics in the Thermal Ecology of Lizards. Rider University (Biology 390) Herpetology

UNDERGRADUATE, GRADUATE AND POSTDOCTORAL SUPERVISION:

Undergraduate Honors Tutorial/Senior Theses:

William Narotski, Mary Jo-Ellen Erickson, Anu Gupta, Paul Tuck, Cassandra Thompson, Rachel Martin

Undergraduate Research:

David Althoff, Anthony Brown, Doug Bruggeman, Patricia Chalfant, Cynthia Caldwell, Jay Diffendorfer, Hillary Faeta, Greg Haenel, Joseph Joyce, Scott Marriott, Stacy Meltzer, David Morris, James O'Connor, Dan Rabosky, Kevin Skerl, Mary Sparks, John Steffen, Cassandra Thompson, Rachel Martin

Provost's Undergraduate Research Fund (Grant to support undergraduate research):

Cynthia Caldwell, James O'Connor, Cassandra Thompson, Rachel Martin

Graduate Student Supervision:

Master of Science Theses:

Janet Easley (1987) *Kin recognition in a lycosid spider, Lycosa punctulata*

Stephanie Petter (1988) *Behavioral observation of the mating system and an electrophoretic examination of parentage in the field sparrow in Athens, Ohio*

Abdul Abdi (1991) MSES Non thesis option

Tim McMahon (1992) *The effects of habitat structure and predator avoidance on avian sociality and foraging behavior*

Eric Hart (1992) *An analysis of wolf captures on the Kenai Peninsula, Alaska*

M.J. Erickson (1992) *Biomechanical properties of Phrynosomatid lizard long bones*

Vicky German (1993) *Avian assemblages and habitat use in reclaimed and unreclaimed strip mines of Southeastern Ohio*

Victor Fazio (1994) *Genetic variation in an endangered passerine, Vireo atricapillus woodhouse*

Michael Robson (1994) *The relationship between locomotor performance and dominance in male tree lizards (Urosaurus ornatus)*

Scott Blackburn (1994) *Patterns of ecomorphological variation in an assemblage of whiptail lizards (Teiidae: Cnemidophorus)*

Matthew Hohmann (1996) *Spatio-temporal variation in population trends of successional-nesting passerines in eastern North America*

Robert Amling (1997) *Evolution of food storage behavior in the avian family Corvidae*

- Debbie Builder (1997) *An analysis of the locust borer Megacyllene robiniae Foster (Coleoptera: Cerambycidae) attacks on coal strip-mined and unmined lands in Southeastern Ohio*
- Glenda Kenner (1997) - MSES Non thesis option
- Robert Scott Placier (2000) *A comparison of bird utilization within forest tracts following silvicultural clearcutting and "New Forestry" timber harvesting in Southeastern Ohio*
- Brian Knapp (2001) *A hierarchical investigation of female-biased sexual size dimorphism in Sceloporus lizards*
- Andrea Sites (2001) *The initial impacts of a shelterwood cut on nonbreeding birds in southeastern Ohio*
- Teresa Dennis (2002) *Responses of avian communities to shelterwood cuts and prescribed burns in eastern deciduous forests.*
- Henry Streby (2005) *Effects of selective thinning and prescribed burning on nesting neotropical migrant birds in a mixed oak forest ecosystem: avian hematozoa and nesting success*
- Marci Brandenburg (2004) *Effects of deer exclosures on forest floor mammals*
- Rita Steyn (2005) *Evaluating reef condition and the impact of blast-fishing in the coral reefs surrounding the island Balobaloang, South Sulawesi, Indonesia*
- Todd McCabe (2006) *Bird species richness within different plantation types on Camiguin Island, Philippines*
- Christina Wieg (2008) *Geographic variation in the Bahamian brown racer*
- Richard Carter (2008) *Foraging habitat selection of Ohio bats an examination between eastern second growth forest, eastern old growth forest, and pasture land*
- Kelly Williams-Sieg (2008) *Avian community composition and foraging behavior in response to commercial thinning and habitat structure*
- Gabriel Radik (2009) *Assessing risks of amphibian declines using multiple stressors*
- Kari Searl (2010) *Effects of host density, active burrow density, and sex ratio on ectoparasite load of black-tailed prairie dogs (Cynomys ludovicianus) in northern Colorado*
- Nicole Finnicum (2012) *Patterns of avian species diversity along an urbanization gradient in Edinburgh, Scotland*
- Emily Kuzmick (2015) *Investigating the viability of Agave americana as a potential bioenergy feedstock and its relative impact on surrounding wildlife*
- Holly Latteman (2019) *Black Vulture (Coragyps atratus) range expansion: An example of Human-Wildlife Conflict*

Doctoral Dissertations:

- Clay Corbin (2002) *Morphological and Ecological Evolution in Old and New World Flycatchers*
- Kelly Williams (2013) *Behavioral plasticity in Hooded Warblers (Setophaga citrina)*
- Matthew Lattanzio (2013) *Ecological and phenotypic divergence among Ornate Tree Lizard (Urosaurus ornatus) color morphs in response to environmental variation*
- Alexis Rutschmann (SETE, CNRS Moulis, France, Co-advisor with Jean Clobert, 2016)
- Vincent Farallo (2017) *Notes from the underground: linking microhabitat and species distributions of plethodontid salamanders*
- Ramadan Kandyel (2017) (University of Tanta, Egypt, co-advisor)
- Sebastian Kirchhof (2017 Humboldt University, Berlin, co advisor with Johannes Müller) *Spatial and temporal diversity dynamics in Southern African lacertid lizard populations under climate change*

Jorge González Espinosa (2018, Universidad de Estado, Hildago, co advisor with Norma Manriquez) *Distribución, caracterización del hábitat y diversidad genética de Sceloporus jalapae*

Qiang Wu 2018 (Co-advisor with Jean Clobert). Population stress under anthropogenic perturbations in *Zootoca vivipara*: a perspective from parasite and behavior.

Brandan Gray (2019) Ecology, morphology, and behavior in the New World Wood Warblers.

Anthony Gilbert, (2020). Selection and plasticity: Novel phenotypic trajectories in the era of climate change.

Current Students:

Ph.D.: Julia Joos, Almir de Paula, Juan Pablo Aguilar, Tyler Goerge

MSc.

Alaina Friedrich

Visiting Graduate Students

Russell Burke - University of Michigan

Nicole Angeli - Texas A&M University

Andre Bruinje - University of Nata, Brazill

Luisa Diele-Viegas - University of Rio de Janeiro, Brazil

Pedro Campelo – University of Brasilia, Brazil.

Post-Doctoral Supervision

Willem Roosenburg (1995)

Suzie Mills (Co-advised with Barry Sinervo)

Lisa Hazard (Co-advised with Barry Sinervo)

Facundo Cabeza (Co-advised with Nora Ibarguengöytia)

Visiting Postdoctoral Students

Carla Piantoni (2015) University of Sao Paolo

Ishan Agrawal (2016) Villanova University

External Examiner

Ph.D.

Josefa Bleu (University of Pierre and Marie Curie, Paris, France),

Skye Cameron (University of Queensland),

Brent Goodman (James Cook University),

Carryn Manicom (James Cook University),

Ghada Mutawa (Mansoura University, Egypt),
Nicole Angeli (Texas A&M University)
Sebastian Kirchhof (Humboldt University)
Felix Pellerin (University Paul Sabatier)
Fonti Kar (University of New South Wales)

Habilitation: Sandrine Meylan (University of Pierre and Marie Curie)

M.Sc.:

Edward Hearne (Memorial University, Canada)
Edgar Bernal (Universidad de Los Andes, Bogota, Colombia)

PARTICIPATION IN WORKSHOPS AND WORKING GROUPS

- 2011** Universidad Nacional del Comahue, Bariloche, Argentina – 5 day Workshop on Climate Change and Phylogenetic Comparative Methods (with Barry Sinervo, Nora Ibargüengoytia, and Fausto Mendez de la Cruz)
- 2012** Texas Cooperative Wildlife Collection, *Sceloporus arenicolus* Research Integration Workshop.
- 2013** Universidad de Puerto Madryn, Argentina – 5 day Workshop on Climate Change (with Barry Sinervo and Ray Huey)
- 2014** Universidad del Estado Hildago – 5 day Workshop on Phylogenetic Comparative Methods
- 2014** Humboldt University Research Bridge Builder, Princeton University, New Jersey
- 2015** Universidade do Estado Mato Grosso
Universidade do Estado do Rio de Janeiro, UERJ – 5 day Workshop on Climate Change (with Barry Sinervo and Guarino Colli)
2nd Workshop “Ecological and Behavioral Physiology: Challenges in a Changing World”
Universitario Bariloche.
Field Course “Ecologia de Transicao Cerrado-Floresta Amazonica” Invited Lecturer
- 2017** Universidad Autonoma Tlaxcala. 5-day workshop on Risk of Extinction in Ectothermic Vertebrates in Response to Climate Change (with Aníbal Díaz de la Vega, Norberto Martinez, Fausto Mendez de la Cruz, Rafa Lara Resendiz)
- 2021** Mitigating Climate Change. NSF sponsored Workshop. 12 – 13 October.

INVITED SEMINARS

- 1984 University of California, Berkeley, Museum of Vertebrate Zoology
- 1985 Ohio University, Department of Zoology
Wright State University, Department of Biology
- 1986 Ohio University, Department of Botany
- 1987 University of Wisconsin, Madison, Department of Zoology
- 1988 Ohio University, Ecology Graduate Group
- 1989 Savannah River Ecology Laboratory
University of California, Riverside, Department of Biology

Ohio University, Ecology Graduate Group
 1990 Ohio University, Regulatory Physiology Group
 1991 Saguaro National Monument, NPS Research Symposium
 Cleveland State University, Department of Biology
 University of Windsor, Department of Biology
 1992 Denison University, Department of Biology
 1994 University of Michigan, Museum of Zoology
 University of Washington, Department of Zoology
 1996 Charles Darwin Research Station, Galápagos
 McGill University, Department of Biology
 University of Akron, Department of Biology
 1997 Texas A&M University, Department of Fish and Wildlife Sciences
 University of New Mexico, Sevilleta Field Station
 The Ohio State University, Department of Zoology
 1998 Department of Biology, University of California, Santa Cruz
 Saguaro National Park, Tucson, Arizona
 1999 Sevilleta LTER Research Symposium
 University of New Mexico, Department of Biology
 2004 Indiana University Purdue University, Fort Wayne, IN
 2006 James Cook University, Townsville, Queensland, Australia
 Keynote Speaker, University of Kentucky, Lexington
 2007 Saguaro National Park Investigators Symposium
 2008 CNRS, Experimental Evolution Station, Moulis, France
 Department of Ecology and Evolution, University of Paul Sabatier, Toulouse
 Museum für Naturkunde, Berlin, Germany
 2010 Western Washington University, Department of Biology
 Saguaro National Park, Climate Change Symposium
 Gobabeb Desert Training and Research Center, Namibia
 2011 Brigham Young University
 Universite Pierre et Marie Curie, Paris, France
 2012 Georgia Southern University
 University of Macquarie, Department of Biology
 Texas A&M University, Texas Cooperative Wildlife Collection
 2013 University of Brasilia, Brazil
 2014 University of Stellenbosch, South Africa
 UNAM, Chamela Research Station
 2015 Station Experimental d'Ecologie CNRS, Moulis
 2015 University of Mato Grosso, Brazil
 2016 Museum of Vertebrate Zoology, University of California, Berkeley
 Integrative Biology (2x), Seminar in Herpetology "Herp Group"
 University of California, Santa Cruz
 University of California Museum of Paleontology
 2017 Universidad Autonoma Tlaxcala, Mexico
 Texas A&M University, Department of Biology/Wildlife and Fisheries Sciences
 Northern Kentucky University, Department of Biology
 2019 SETE CNRS, Moulis

2020 AICAR, Mexico, Plenary Speaker
Ohio University, Ecology and Evolutionary Biology
Ohio University, Institute for Quantitative Biology
2021 Washington University
University of Missouri, St. Louis

Public Presentations and Outreach

2015 STEM to STEAM workgroup (Ohio University)
2016 Museum of Vertebrate Zoology, University of California, Berkeley, CAL Day
2020 Ohio University Science Café
2021 III Herpetorama, Brazil. Roundtable Discussion. Ecophysiological Research

Ohio University Faculty Awards and Honors

OHIO Faculty Newsmaker Certificate of Recognition for Media Coverage 2018

Faculty High Fives Ohio University; December 2019

SERVICE

Departmental:

Chair, Graduate Studies, Biological Sciences (2003 - 2006, Spring 2017)
Ad hoc Curriculum Revision Committee (1986, 1998)
Promotion and Tenure Committee (1995 –1999, 2019-)
Advisory Committee
Graduate Committee
Chair, Strategic Planning Priorities Committee
Student Advising

Search Committees:

Chair:

Search Committee for Behavioral Ecologist (1997)
Search Committee for Conservation Biologist (2015)
Search Committee for Comparative Genomics (2018-2019)

Member:

Search Committees:

Evolutionary Biologist

College of Arts and Sciences:

Executive Committee, Master of Science in Environmental Studies Program (1988 – 1995)
Director, Conservation Biology Program (1990 – 1999)

Land Lab Advisory Committee

Coordinator Land Lab Advisory Committee (1997 – 2000, 2007 -)

Faculty Development Committee (1994 – 1998)

Faculty Development Committee Chair (1996 – 1998)

Faculty Fellowship Committee (2019), Chair

Promotion and Tenure Committees (Associate and Professor)

Quantitative Biology Program Committee

University:

Graduate Council (1990 – 1994)

Member, Policy and Regulations Subcommittee (1990 – 1994)

Member, Admissions Subcommittee (1999 – 2000)

Acting Chair, Admissions Subcommittee

Kennedy Lecture Committee (1999, 2018-)

Faculty Senate (Elected 2 terms) 2000 - 2008

Member, Faculty Compensation and Space Committee

Chair, Space Utilization Subcommittee

Institutional Animal Care and Use Committee (2003 – 2007)

First Year Experience (2012 -)

Ridges Master Plan, Land Use Subcommittee, 2014-2015

STEM-2-STEAM (2015)

OTHER PROFESSIONAL SERVICE:

External Reviewer: Habilitation, Dissertation, Thesis

2021 Fonti Kar, Ph.D., University of New South Wales

2019 Félix Pellerin, Ph.D. University of Toulouse

2018 Qiang Wu, Ph.D., University of Toulouse

2014 Skye Cameron, Ph.D., University of Queensland

2012 Sandrine Meylan, HDR, University of Pierre et Marie Curie, Paris, France

2011 Josefa Bleu, Ph.D., University of Pierre et Marie Curie, Paris, France

2010 Carryn Manicom, Ph.D., University of James Cook University

2007 Brett Goodman, Ph.D., University of James Cook University

1996 Edward Hearne – MSc thesis Memorial University, Canada

External Reviewer – Departmental Reviews, Job Searches

2021 Norwegian University of Science and Technology, Department of Biology

2020 External Reviewer Indiana State University, Department of Biology

Manuscript Reviews:

Ad Hoc Reviewer of manuscripts for the following journals:

Acta Theriologica, American Journal of Physiology, American Naturalist, American Zoologist,

The Auk, Basic and Applied Ecology, Behavior, Axios, Behavioral Ecology, Behavioral Ecology and Sociobiology, Behavioral Processes, Biology Letters, Biological Journal of the Linnean Society, BioScience, Canadian Journal of Zoology, Condor, Conservation Physiology, Copeia, Current Biology, Current Zoology, Ecology, Ecology and Evolution, Evolutionary Ecology, Evolutionary Ecology Research, Ecology Letters, Ecological Applications, Ecological Monographs, Ethology, Evolution, Evolution Applications, Functional Ecology, Global Change Biology, Global Ecology and Biogeography, Hardware X, Herpetologica, Herpetological Monographs, Hormones and Behavior, Integrative and Comparative Biology, Integrative Zoology, Journal of Herpetology, Journal of Animal Ecology, Journal of Arid Environments, Journal of Comparative Physiology B, Journal of Evolutionary Biology, Journal of Experimental Biology, Journal of Experimental Zoology, Journal of Thermal Biology, Journal of Theoretical Biology, Journal of Zoology, Methods in Ecology and Evolution, Molecular Ecology, Nature, Nature: Scientific Reports, North Western Journal of Zoology, Oecologia, Quarterly Review of Biology, Physiological and Biochemical Zoology, PLoS One, Proceedings of the National Academy of Sciences, Proceedings of the Royal Society of London B, Science, Southwestern Naturalist, Systematic Biology, and Zoological Journal of the Linnean Society.

Nominator Kyoto Prize 2016

Fulbright Selection Committee (Germany), October 2008.

Ad Hoc Reviewer for McGraw-Hill Publishing, Wadsworth Publishing, Oxford University Press, Prentice Hall Publishing, Benjamin Cummings, Princeton University Press, and University of California Press.

Grant Reviews:

Ad Hoc Reviewer for the ANR (French National Science Foundation), American Philosophical Association (Lewis and Clark Award), Austrian NSF, Ernest E Williams Award (Society for the Study of Amphibians and Reptiles), Israel National Science Foundation, National Geographic Society Committee on Research and Exploration National Science Foundation: Programs in Ecology, Population Biology and Physiological Ecology, Ecological and Evolutionary Physiology, Systematic Biology, Florida Game and Fish Department, MacQuarie University Research Fellowships Scheme, Czech Science Foundation, Brazilian Science Foundation

NSF Panel Participation

NSF – IOS – Physiological Systems (2012)
NSF - IOS - Integrative Ecological Physiology (2016)
NSF - DEB - Dimensions of Biodiversity (Declined)
NSF- GRFP (2020, 2021)

External Reviewer Tenure and Promotion/Promotion to Full Professor

Elon University, North Carolina

Harvey Mudd College

Texas A&M University

University of New Mexico

University of Akron, Ohio

University of Oklahoma

Temple University

Monash University

Brigham Young University

University of the Pacific

SERVICE IN PROFESSIONAL SOCIETIES

Judge, Murray Buell Student Paper, Ecological Society of America, Annual Meeting, 1990, 1997, 1998, 2000, 2001, 2004.

Judge, Student Presentations. Society for Integrative and Comparative Biology. Annual Meeting. Multiple Years

Judge, District 12 Science Fair, Ohio University, 1985 - 2015

Judge, State Science Day, Ohio Wesleyan University, April, 1999, 2004

Judge, Raymond B. Huey Best Student Paper Award Division of Ecology and Evolution SICB. 2013 - 2018.

Organizer, Symposium: "Contributions of Long Term Ecological Research to Current Issues in the Conservation of Biological Diversity" American Society of Zoologists, Division of Ecology, Annual Meeting, Vancouver, 1992

Education Committee, Ecological Society of America (2000 - 2003)

Program Officer, Division of Ecology and Evolution, Society for Integrative and Comparative Biology (2014 – 2016).

"Ask an Expert" SICB Division of Phylogenetic and Comparative Biology – Annual Meeting 2019

Grant Committee – Jones-Lovich Grant in Aid of Research, Herpetologists League 2021 -

Scientific Committees

IV Congreso Colombiano Zoologia (2014):

Simposio Latinoamericano Sobre Sistemática y Biogeografía de Anfibios y Reptiles.

Impacts of Climate Change on the Herpetofauna of South America

2nd Workshop – Ecophysiological and Behavioral Physiology: Challenges in a changing world

Universidad Nacional del Comahue, Bariloche, Argentina (2015)

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