

CURRICULUM VITAE

ANA DESIREE DAVIDSON

Colorado Natural Heritage Program
&
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EDUCATION

- 1998 – 2005 Ph.D. *with Distinction* in Biology, University of New Mexico (UNM).
- 1994 – 1998 B.S. *Magna Cum Laude*, Major in Biology, Minor in Earth & Planetary Sciences, UNM.
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PROFESSIONAL EXPERIENCE

- 2017-Present *Research Scientist III*. Colorado Natural Heritage Program, Colorado State University.
- 2017-Present *Joint Faculty Appointment*. Department of Fish, Wildlife, and Conservation Biology, Colorado State University.
- 2016-Present *Research Associate*. Department of Wildlife, Humboldt State University.
- 2014-Present *Research Assistant Professor*. Department of Biology, UNM.
- 2014-2016 *Teaching Faculty (Lecturer of Vertebrate Ecology)*. Department of Wildlife, Humboldt State University.
- 2014 *Research Ecologist*. Institute for Wildlife Studies (IWS).
- 2013 – 2014 *Research Assistant Professor*. Department of Ecology & Evolution, Stony Brook University (SBU).
- 2013 (May-June) *Special Visiting Researcher*. Centro de Biotecnologias, Universidade Federal do Rio Grande do Norte (UFRN), Natal, Brazil. Science without Borders Program. Host: Dr. Gabriel Costa.

(PROFESSIONAL EXPERIENCE CONTINUED)

- 2012 – 2013 *Research Assistant Professor.* Joint position between Department of Ecology & Evolution, SBU with Dr. Catherine Graham and NatureServe with Dr. Bruce Young, under a National Science Foundation (NSF) Dimensions of Biodiversity Grant, led by Dr. Thomas Brooks.
- 2009 – 2012 *Postdoctoral Research Assistant.* Institute of Ecology, UNAM with Dr. Gerardo Ceballos.
- 2007 – 2009 *National Science Foundation International Research Fellow.* Host: Institute of Ecology, UNAM, Dr. Gerardo Ceballos.
- 2006 – 2007 *Postdoctoral Fellow.* Institute of Ecology, UNAM with Dr. Gerardo Ceballos.
- 2005 – 2006 *Nature Conservancy Postdoctoral Fellow.* Hosts: Drs. Gerardo Ceballos, Institute of Ecology, UNAM and James H. Brown, Department of Biology, UNM.
- 2001 – 2005 *Museum Curatorial Assistant.* Division of Arthropods, Museum of Southwestern Biology (MSB), Department of Biology, UNM.

ADDITIONAL EXPERIENCE IN ECOLOGY

- 2000 - 2004 *Graduate Research Assistant.* Sevilleta Long-Term Ecological Research (LTER) Program, Department of Biology, UNM.
- 2002 (October) *Contract Biologist.* Southwestern Biomes, Inc. Riparian restoration monitoring project, Pueblo of Santa Ana, Bernalillo County, NM.
- 2002 (June) *Contract Biologist.* Grand Canyon Monitoring and Research Center, US Geological Survey. Ecological monitoring project of the Grand Canyon riparian ecosystem, Grand Canyon, AZ.
- 1998 – 2000 *Contract Biologist.* USDA, Jornada Experimental Range, Doña Ana County, NM. Cross-site desert grassland fire ecology study.
- 1999 (October) *Contract Biologist.* Arid Lands Project. Prairie dog ecology study at the Gray Ranch, Hidalgo County, NM.
- 1999 (October) *Contract Biologist.* Arid Lands Project. Cross-site desert grassland fire ecology study at the Gray Ranch, Hidalgo County, NM.

TEACHING EXPERIENCE

- 2019 *Instructor*. Design of Fish and Wildlife Projects, Department of Fish, Wildlife and Conservation Biology, CSU.
- 2014-2016 *Instructor*. Management of Mammals, Upland Habitat Ecology, Senior Project, Wildlife Techniques, Department of Wildlife, HSU.
- 2005-2018 *Guest lecturer* in upper division courses, including: Community Ecology, Mammalogy, Biodiversity Conservation, Conservation Biology, Restoration Ecology, Mammals Management, Wildlife Ecology and Management. HSU, UNAM, UNM, CSU.
- 2000 – 2003 *Instructor*. Desert Field Biology, Department of Biology, UNM.
- 1999-2005 *Graduate Teaching Assistant* in upper division courses: Ecosystem Dynamics, Bosque Biology and Desert Field Biology, and lower division General Biology Labs, Department of Biology, UNM.

PUBLICATIONS

- 2019 Augustine, D., **A. D. Davidson**, K. Dickinson, and B. Van Pelt. Thinking like a grassland: Challenges and opportunities for biodiversity conservation in the Great Plains of North America. *Rangeland Ecology and Management* <https://doi.org/10.1016/j.rama.2019.09.001> (Invited)
- 2019 Lacher, T.E., Jr., **A. D. Davidson**, T. Fleming, E. P. Gomez-Ruiz, G. McCracken, N. Owen-Smith, C. Peres, and S. Vander Wall. The functional roles of mammals in ecosystems. *Journal of Mammalogy*. [Special Centennial Commemoration Issue](#) 100:942–964. (Invited)
- 2018 **Davidson, A. D.**, E. A. Hunter, J. Erz, D. C. Lightfoot, A. M. McCarthy, J. K. Mueller, K. T. Shoemaker. Reintroducing a keystone burrowing rodent to restore an arid North American grassland: challenges and successes. *Restoration Ecology* 26:909-920.
- 2018 Holt, B. G., G. C. Costa, C. Penone, T. M. Brooks, J-P. Lessard, **A. D. Davidson**, S. B. Hedges V. Radeloff C. Rahbek, C. Rondinini, and C. H. Graham. Environmental variation is a major predictor of global trait turnover in mammals. *Journal of Biogeography* 45:225-237.
- 2017 **Davidson, A. D.**, K. T. Shoemaker, B. Weinstein, G. Costa, V. Radeloff, C. Rondinini, G. Ceballos, and C. Graham. Geography of global mammal extinction risk. *PLOS One* . *PLoS ONE* 12(11): e0186934.

(PUBLICATIONS CONTINUED)

- 2017 Brum, F. T., C. H. Graham, G. C. Costa, S. B. Hedges, C. Penone, V. C. Radeloff, C. Rondinini, R. Loyola, and **A. D. Davidson**. Global priorities for conservation across multiple dimensions of mammalian diversity. *Proceedings of the National Academy of Sciences* 114:7641-7646
- 2017 Böhm, M., R. Kemp, R. Williams, **A. D. Davidson**, A. Garcia, K.M. McMillan, H. R. Bramhall, and B. Collen. Rapoport's rule and determinants of species range size in snakes. *Diversity and Distributions* 23:1472-1481.
- 2016 Kennedy, C. M., P. L. Hawthorne, D. A. Mitevac, L. Baumgartend, K. Sochia, M. Matsumoto, J. S. Evans, S. Polasky, P. Hamelf, E. M. Vieirag, P. Ferreira Develayh, C. H. Sekercioglu, **A. D. Davidson**, E. M. Uhlhorn, J. Kieseckera. Optimizing land use decision-making to sustain Brazilian agricultural profits, biodiversity and ecosystem services. *Biological Conservation* 204:221-230.
- 2016 Penone, C., B. Weinstein, C. H. Graham, T. M. Brooks, S. B. Hedges **A. D. Davidson**, and G. C. Costa. Global mammal beta diversity show parallel assemblage structure in similar but isolated environments. *Proceedings of the Royal Society B*. 283:20161028.
- 2016 Böhm, M., D. Cook, H. Ma, J. Carr, **A.D. Davidson**, A. Garcia, B. Tapley, P. Pearce-Kelly, and Jamie Carr. Hot and bothered: using trait-based approaches to assess climate change vulnerability in reptiles. *Biological Conservation* 204:32-41.
- 2016 Oliveira, B., G. C. Costa, T. M. Brooks, **A. D. Davidson**, C. Rondinini, and C. H. Graham. Species and functional diversity accumulate differently in terrestrial mammals. *Global Ecology and Biogeography*. 25:1119-1130.
- 2016 Ponce-Guevara*, E., **A. D. Davidson**, R. Sierra-Corona, G. Ceballos. Interactive Effects of Black-Tailed Prairie Dogs and Cattle on Shrub Encroachment in a Desert Grassland Ecosystem. *PLOS ONE* 11(5): e0154748.
- 2016 Böhm, M., R. Williams, H. Bramhall, K. McMillan, **A.D. Davidson**, A. Garcia, L. Bland, J. Bielby, and B. Collen. The correlates of extinction risk in reptiles: the relative importance of biology, geography and threat. *Global Ecology and Biogeography* 25: 391-405.

(PUBLICATIONS CONTINUED)

- 2015 Sierra–Corona*, R., **A. D. Davidson**, E.L. Fredrickson, H. Luna-Soria, E. Ponce, and G. Ceballos. Black-tailed prairie dogs, cattle, and the conservation of North America’s arid grasslands. *PLOS ONE* 10(3): e0118602.
- 2014 Penone, C., **A. D. Davidson**, K. T. Shoemaker, M. Di Marco, , C. Rondinini, T. Brooks, B. Young, C. H. Graham, and G. C. Costa. Imputation of missing data in life-history traits datasets: which approach performs the best? *Methods in Ecology and Evolution* 5:961-970.
- 2014 **Davidson, A. D.**, M. T. Friggens, K. Shoemaker, C. L. Hayes, J. Erz, and R. Duran. Population dynamics of reintroduced Gunnison’s prairie dogs in the southern portion of their geographic range. *Journal of Wildlife Management* 78:429-439.
- 2014 Murray, K. A., L. D. Verde Arregoitia, **A. D. Davidson**, M. Di Marco, and M. M. I. Di Fonzo. Threat to the point: improving the value of comparative extinction risk analysis for conservation action. *Global Change Ecology* 20:483-494.
- 2014 Bergstrom, B. J., L. C. Arias, **A. D. Davidson**, A. W. Ferguson, L. Randa, and S. R. Sheffield. License to kill: reforming Wildlife Services to restore biodiversity and ecosystem function. *Conservation Letters* 7:131-142.
- 2014 J. H. Brown, C. Allen, J. R. Burger, W. Burnside, M. Chang, **A. D. Davidson**, T. Fristoe, M. J. Hamilton, S. T. Hammond, A. Kodrick-Brown, N. Mercado-Silva, J. Nekola, J. Okie, and W. Woodruff. Macroecology meets Macroeconomics: Resource Scarcity and Global Sustainability. *Ecological Engineering* 65:24-32.
- 2013 Nekola J., J. H. Brown, R. Burger, W. Burnside, **A. D. Davidson**, T. Fristoe, M. J. Hamilton, S. T. Hammond, A. Kodrick-Brown, N. Mercado, J. Okie. The Malthusian-Darwinian dynamic and human nature. *Trends in Ecology and Evolution* 28:127-130. * all authors contributed equally
- 2012 Lightfoot, D. C., **A. D. Davidson**, D. G. Parker, L. Hernandez, J. Laundre. Bottom-up regulation of desert grassland and shrubland rodent communities: implications of species-specific reproductive potentials. *Journal of Mammalogy* 93(4):1017-1028.
- 2012 **Davidson, A. D.**, J. K. Detling, and J. H. Brown. Ecological roles and conservation challenges of social, herbivorous, burrowing mammals in the world’s grasslands. *Frontiers in Ecology and the Environment* 10:477-485.

(PUBLICATIONS CONTINUED)

- 2012 Burger, J. R., C. Allen, J. H. Brown, W. Burnside, **A. D. Davidson**, T. Fristoe, M. J. Hamilton, N. Mercado, J. Okie, W. Zuo, and J. Nekola. The macroecology of sustainability. *PLoS Biology* 10(6): e1001345. * all authors contributed equally
- 2012 **Davidson, A. D.**, A. G. Boyer, H. Kim, S. Pompa-Mansilla, M. J. Hamilton, D. P. Costa, G. Ceballos, and J. H. Brown. Drivers and hotspots of extinction risk in marine mammals. *Proceedings of the National Academy of Sciences* 109:3395-3400.
- 2011 Brown, J. H., W. Burnside, **A. D. Davidson**, J. P. DeLong, B. Dunn, M. J. Hamilton, N. Mercado, J. Okie, W. Woodruff, and W. Zuo. Energetic limits to economic growth. *BioScience* 61:19-26.
- 2011 Hamilton, M. J., **A. D. Davidson**, R. M. Sibly, and J. H. Brown. Universal scaling of production rates across mammalian lineages. *Proceedings of the Royal Society B* 278:560-566.
- 2010 Lightfoot, D. C., **A. D. Davidson**, D. Parker, and C. M. McGlone. Rabbit abundance in northern Chihuahuan Desert grassland and shrubland habitats relative to rainfall and plant production. *Western North American Naturalist* 70:490-499.
- 2010 **Davidson, A. D.**, E. Ponce, D. C. Lightfoot, E. L. Fredrickson, J. H. Brown, J. Cruzado, S. L. Brantley, R. Sierra, R. List, D. Toledo, and G. Ceballos. Rapid response of a grassland ecosystem to an experimental manipulation of a keystone rodent and domestic livestock. *Ecology* 91:3189-3200.
- 2010 Ceballos, G., **A. D. Davidson**, R. List, J. Pacheco, P. Manzano, G. Santos, and J. Cruzado. Rapid decline of a grassland ecosystem and its ecological and conservation implications. *PLoS ONE* 5:e8562.
- 2009 Ceballos, G., R List, **A. D. Davidson**, E. Fredrickson, R. Sierra, L. Martínez, J. Herrick, and J. Pacheco. Grassland conservation in the borderlands: understanding coupled human- ecological systems to achieve conservation goals in Lopez-Hoffman, L., R. Varady, and K. Flessa. Conservation of Shared Environments: Learning from the United States and Mexico. University of Arizona Press.
- 2009 **Davidson, A. D.**, M. J. Hamilton, A. G. Boyer, J. H. Brown, and G. Ceballos. Multiple ecological pathways to extinction in mammals. *Proceedings of the National Academy of Sciences* 106:1702-1705.

(PUBLICATIONS CONTINUED)

- 2008 **Davidson, A. D.**, D. C. Lightfoot, and J. L. McIntyre. Engineering rodents create key habitat for lizards. *Journal of Arid Environments* 72:2142-2149.
- 2008 **Davidson, A. D.** and D. C. Lightfoot. Burrowing rodents increase landscape heterogeneity in a desert grassland. *Journal of Arid Environments* 72:1133-1145.
- 2007 **Davidson, A. D.** and D. C. Lightfoot. Interactive effects of keystone rodents on the structure of desert grassland arthropod communities. *Ecography* 30:515-525.
- 2006 **Davidson, A. D.** and D. C. Lightfoot. Keystone rodent interactions: prairie dogs and kangaroo rats structure the biotic composition of a desertified grassland. *Ecography* 29:755-765.
- 1999 **Davidson, A. D.**, R. R. Parmenter, and J. R. Gosz. Responses of small mammals and vegetation to a reintroduction of Gunnison's prairie dogs. *Journal of Mammalogy* 80:1311-1324.

DATA PAPERS

- 2016 Penone, C., B. Weinstein, C. H. Graham, T. M. Brooks, S. B. Hedges **A. D. Davidson**, and G. C. Costa. Global mammal betadiversity (1-5). Data from: Global mammal betadiversity show parallel assemblage structure in similar but isolated environments. Dryad Digital Repository. DOI: <https://doi.org/10.5061/dryad.3kd7c>
Description: R file containing values for taxonomic, phylogenetic and trait turnover calculated for all terrestrial mammals at 1-degree grid-cell resolution.
- 2016 Böhm M., R. Williams, H. R. Bramhall, K. M. McMillan, **A. D. Davidson**, A. Garcia, L. M. Bland, J. Bielby, B. Collen. Species traits and variables - data table. Data from: Correlates of extinction risk in squamate reptiles: the relative importance of biology, geography, threat and range size. *Dryad Digital Repository*. DOI: <https://doi.org/10.5061/dryad.3hq89/1>
Description: Species trait data and environmental variables for 1,139 squamate reptiles.
- 2016 Böhm M, R. Williams, H. R. Bramhall, K. M. McMillan, A. D. Davidson, A. Garcia, L. M. Bland, J. Bielby, B. Collen. Composite phylogeny of squamate reptiles. Data from: Correlates of extinction risk in squamate reptiles: the relative importance of biology, geography, threat and range size. *Dryad Digital Repository*. DOI: <https://doi.org/10.5061/dryad.3hq89/2>.
Description: Non-dated composite phylogeny of squamate reptiles (1,139 species + *Sphenodon punctatus* as outgroup).

GRANTS, AWARDS, AND FELLOWSHIPS*AWARDED*

- 2020 Understanding how to manage prairie dog population dynamics in the context of plague, climate, and livestock production. Lead-PI, \$500,000.
- 2018 Participatory research to quantify prairie dog impacts on livestock production in western rangelands. USDA-NIFA-AFRI-006351. Lead-PI, \$300,000.
- 2018 Identifying potential landscapes for conservation across the grasslands of central North America: integrating keystone species, land use patterns, and climate change. USFWS. Lead-PI, \$497,638.
- 2018 Developing innovative solutions for human-bison coexistence across North America. School of Environmental Sustainability (SoGES), CSU. Lead-PI, \$18,660.
- 2018 Developing innovative solutions for human-bison coexistence across North America. Office of the Vice President for Research. CSU. Co-PI, \$17,475.
- 2018 Cross-continental comparison of the cascading effects of ecosystem engineers. La Trobe University, Australia. Co-PI, \$8,770.80.
- 2018 Cross-continental comparison of digging mammal impacts on invertebrate biodiversity and function. Australian Research Council, Australia. Co-PI, \$17,420.
- 2016 Research Grant. USFWS National Landscape Conservation Cooperative. \$50,000. (declined)
- 2015 Research Grant. New Mexico Department of Game and Fish. \$20,000.
- 2014 Carlos Slim Research Grant. World Wildlife Fund. \$200,000.
- 2013 Future Fellowship (awarded to Australian Professor, Dr. Heloise Gibb, to study in US with me). Australian Research Council.
- 2013 Sandwich Fellowship (awarded to Brazilian Ph.D. Student, Fernanda Thiesen Brum, to study abroad for 9 months at SBU, with me as her advisor). Brazil Science without Borders Program. \$8500.

(GRANTS, AWARDS, AND FELLOWSHIPS CONTINUED)

- 2013 UNAM Fellowship (awarded to Mexican Ph.D. Student, Eduardo Ponce, to study abroad for 3 months at SBU, with me as his advisor). UNAM. \$5000.
- 2013 Carlos Slim Research Grant. World Wildlife Fund. \$120,000.
- 2013 Research Grant. Program for the protection of the black-tailed prairie dog in Sonora and Chihuahua. National Commission of Natural Protected areas (CONANP), Secretariat of Environment and Natural Resources (SEMARNAT). \$25,000.
- 2013 Range-Wide Prairie Dog Mapping Project. Prairie Dog Coalition, Humane Society of the United States (HSUS). \$40,000.
- 2012 Research Grant. New Mexico Dept. Game and Fish. \$17,000.
- 2012 President's Award to Conservation Committee members. American Society of Mammalogists.
- 2009 Research Grant. United States Fish and Wildlife Service. \$25,000.
- 2008 Research Grant. Share with Wildlife Program, New Mexico Dept. Game and Fish. \$11,000.
- 2008 Research Fellowship. UNAM. \$25,000.
- 2007 Research Fellowship. NSF. International Research Fellowship Prog. \$157,705.
- 2006 Postdoctoral Fellowship. UNAM. \$24,000.
- 2006 Postdoctoral Fellowship. J. M. Kaplan Fund. \$15,000.
- 2005 Postdoctoral Fellowship. The Nature Conservancy. \$25,000.
- 2005 Postdoctoral Fellowship. J. M. Kaplan Fund. \$15,000.
- 2005 Research Grants. T & E, Inc. \$5,000.
- 2004 – 2005 Share with Wildlife Program. New Mexico Dept. Game and Fish. \$5,000.
- 1999 – 2004 Graduate Research Assistantships. NSF. \$28,900. (total across these years)

(GRANTS, AWARDS, AND FELLOWSHIPS CONTINUED)

- 2001 – 2004 Graduate Research Grants. T & E, Inc & Alvin R. and Caroline G. Grove Summer Scholarship, UNM Graduate Research, Project, and Travel Grant. \$5,200.
- 1997 – 1998 Research Experiences for Undergraduates & Undergraduate Student in Environmental Biology Awards. NSF. \$6,700.

ORGANIZED SYMPOSIA AND WORKSHOPS

- 2020 (July) **Davidson, A. D.**, C. Anderson, and C. Hartway. Crossing the divide: Grassland conservation for wildlife and people. North American Congress for Conservation Biology.
- 2019 **Davidson, A. D.**, L. Pejchar, J. Barfield, and C. Hartway. Developing innovative solutions for human-bison coexistence across North America. Colorado State University.
- 2016 Shoemaker, K. T., **A. D. Davidson**, J. Busch. NSF Research Coordination Network Workshop: plague resistance in prairie dogs NSF EEID proposal development. Colorado State University, Fort Collins, CO, USA.
- 2015 **Davidson, A. D.**, D. Wagner, and K. T. Shoemaker. Understanding plague resistance in prairie dogs and its potential consequences for large-scale conservation of North America's central grasslands. Colorado State University, Fort Collins, CO, USA.
- 2013 Bergstrom, B., A. A. Ahlers, **A. D. Davidson**, A. Ferguson, R. Honeycutt, and L. Randa. Predator Control Technical Session. 93rd American Society of Mammalogists Meeting, Philadelphia, PA, USA.
- 2010 **Davidson, A. D.**, A. G. Boyer, and G. Ceballos. Addressing the Extinction Crisis for a Changing Planet: Synthesis and New Directions for Predicting Risk Across Vertebrates Symposium, 24th International Congress for Conservation Biology Meeting, Edmonton, Canada.
- 2010 **Davidson, A. D.**, M.T. Friggens, D. C. Lightfoot, and S. C. Collins. Determining the Cascading Effects of a Reintroduced Keystone Rodent on a Grassland Ecosystem. Workshop held at the Sevilleta LTER, NM, USA.
- 2009 Skroch, M. and **A. D. Davidson**. Ecology and Conservation of the US-Mexico Borderlands Region Symposium, USGS and the Society for Conservation Biology's 10th Biennial Conference of Research on the Colorado Plateau, Flagstaff, AZ, USA.

SELECTED INVITED PRESENTATIONS & SEMINARS

- 2020 (APRIL) **Davidson, A. D.** Ecological roles and conservation challenges of burrowing mammals in the world's grasslands. Colorado State University-Pueblo, Pueblo, CO.
- 2019 **Davidson, A. D.** Burrowing mammals in grasslands: their ecological roles and co-existence with humans. Preservation of Prairie Wildlife, Erie, CO.
- 2018 Augustine, D. and **A. D. Davidson.** Thinking like a grassland: Challenges and opportunities for biodiversity conservation in the Great Plains of North America. Great Plains Grassland Summit, Denver, CO.
- 2018 **Davidson, A. D.** Metamodeling for prairie dog ecosystem conservation? National Science Foundation Research Cooperation Network Workshop: Using metamodels to enable transdisciplinary research for the study of dynamic biological systems under global change. Jacksonville, FL.
- 2017 **Davidson, A. D.** Ecological roles of burrowing mammals in grasslands around the world. *In* symposium: From microbes to moles: Diversity in soils support resilience in ecosystem services. Ecological Society of America Meeting, Portland, OR.
- 2017 **Davidson, A. D.** Scaling up biodiversity conservation: from prairie dogs to global vertebrates. Colorado State University, Ft. Collins, CO, USA
- 2015 **Davidson, A. D.** Biodiversity conservation: from local to global scale. *In* symposium: Scaling up biodiversity conservation: from local to global. Humboldt State University, Arcata , CA, USA.
- 2015 **Davidson, A. D.** Biodiversity conservation: from local to global scale. *In* symposium: Going Macro: Is Scaling Up All the Same? Ecological Society of America Meeting, Baltimore, MD.
- 2013 **Davidson, A. D.,** J. K. Detling, and J. H. Brown. Biodiversity conservation: from prairie dogs to global mammal extinction risk. Humboldt State University, Arcata , CA, USA.
- 2013 **Davidson, A. D.,** J. K. Detling, and J. H. Brown. Biodiversity conservation: from prairie dogs to global mammal extinction risk. Oklahoma State University, Stillwater , OK, USA.
- 2013 **Davidson, A. D.** Biodiversity conservation: from prairie dogs to global mammal extinction risk. University of Nebraska-Lincoln, Lincoln, NE.

(SELECTED INVITED PRESENTATIONS & SEMINARS CONTINUED)

- 2013 **Davidson, A. D.** Biodiversity conservation: from prairie dogs to global mammal extinction risk. Universidade Federal do Rio Grande do Norte, Natal, Brazil.
- 2013 **Davidson, A. D.** Forecasting global mammal extinction risk & unraveling the consequences across the dimensions of biodiversity. McMaster University, Hamilton, Ontario, Canada.
- 2013 **Davidson, A. D.** Forecasting global mammal extinction risk & unraveling the consequences across the dimensions of biodiversity. Stony Brook University, Stony Brook, NY, USA.
- 2013 **Davidson, A. D.** Forecasting global mammal extinction risk. Conservation Biogeography Special Session, 6th International Biogeography Society meeting, Miami, Florida, USA.
- 2011 **Davidson, A. D.** Biodiversity conservation through two lenses: community ecology and macroecology. University of California, Irvine, Irvine, CA, USA.
- 2010 **Davidson, A. D.,** M. J. Hamilton, A. G. Boyer, J. H. Brown, G. Ceballos. Multiple ecological pathways to extinction in terrestrial and marine mammals. Addressing the Extinction Crisis for a Changing Planet: Synthesis and New Directions for Predicting Risk Across Vertebrates Symposium, 24th International Congress for Conservation Biology Meeting, Edmonton, Alberta, Canada.
- 2009 **Davidson, A. D.** Interactive Effects of Small and Large Herbivores on the Structure of Grassland Ecosystems. University of North Dakota, Grand Forks, ND, USA.
- 2009 **Davidson, A. D.,** S. L. Brantley, J. H. Brown, J. Cruzado, E. L. Fredrickson, D. C. Lightfoot, R. List, P. Manzano-Fischer, E. Ponce, J. Pacheco, G. Santos, R. Sierra, and G. Ceballos. The Janos grassland ecosystem: 20 years of synthesis and experimental research revealing new insights for conservation and management. Ecology and Conservation of the US-Mexico Borderlands Region Symposium, USGS and the Society for Conservation Biology's 10th Biennial Conference of Research on the Colorado Plateau, Flagstaff, AZ, USA.

(SELECTED INVITED PRESENTATIONS & SEMINARS CONTINUED)

- 2009 **Davidson, A. D.**, M. J. Hamilton, A. G. Boyer, J. H. Brown, G. Ceballos. Multiple ecological pathways to extinction in mammals. Global Patterns of Mammal Species Distribution: Implications for Macroecology and Conservation Symposium, International Mammalogical Congress, Mendoza, Argentina.
- 2009 **Davidson, A. D.**, M. J. Hamilton, A. G. Boyer, J. H. Brown, G. Ceballos. Multiple ecological pathways to extinction in mammals. Biogeography of Extinction Symposium, International Biogeography Society Meeting, Merida, Mexico.

CURRENT & RECENT PROFESSIONAL SERVICE

- Reviewer *Science, Proceedings of the National Academy of Sciences, National Science Foundation, Proceedings of the Royal Society B, Ecological Applications, Ecology, Oikos, Conservation Biology, PLOS ONE, Oecologia, Ecosphere, Journal of Applied Ecology, Journal of Mammalogy, Ecography, Frontiers in Biogeography, Restoration Ecology, Plant Ecology, Basic and Applied Ecology, Western North American Naturalist, Southwestern Naturalist, Journal of Arid Environments, Arctic, Antarctic, and Alpine Research, Landscape and Urban Planning.*
- 2019 – Present *Board Member.* Southern Plains Land Trust.
- 2019 – Present *Steering Committee Member.* Great Plains Conservation Network.
- 2019 – Present *Bison Sub-Committee Member.* Great Plains Conservation Network.
- 2019 – Present *Prairie Dog Sub-Committee Member.* Great Plains Conservation Network.
- 2010 – Present *Conservation Committee Member.* American Society of Mammalogists.
- 2005 – Present *Scientific Advisory Board Member.* Prairie Dog Coalition, HSUS.