

Rob Roy Ramey II, Ph.D.
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Education:

Cornell University, Ph.D. in Ecology and Evolutionary Biology, 1993

Yale University, School of Forestry & Environmental Studies. M.F.S. in Wildlife Ecology, 1986

University of California, Santa Cruz. B.A. in Biology & Natural History, 1981

Areas of Expertise:

Endangered species conservation (30+ years of experience with scientific research, consulting, and hands-on management of endangered species in the U.S. and abroad. Extensive experience with U.S. Endangered Species Act.)

Emerging Environmental Issues, Evolutionary Biology, Ecology, and Conservation
Scientific review, advising, and research

Research and Professional experience:

President, Wildlife Science International, Inc., Nederland, CO (2007 - present)

<https://www.wildlifescienceintl.com/>

Co-Principle Investigator, Desert Elephant Conservation - Namibia (2012 - present)

Consulting Science Advisor, Center for Environmental Science Accuracy and Reliability (CESAR), Sacramento, CA (2009-present)

Consulting Science Advisor to the Office of Assistant Secretary - Fish and Wildlife and Parks, Department of Interior, Washington D.C. (2005 - 2006)

Curator of Vertebrate Zoology, Denver Museum of Nature and Science (2000 - 2005)

Research Scientist, University of California, San Diego (1999 - 2000)

Visiting Scientist, San Diego Zoo, Center for Reproduction of Endangered Species (1998 - 1999)

USDA Postdoctoral Research Fellow, University of Colorado, Boulder (1994 - 1997)

Postdoctoral Research Associate, University of Colorado, Boulder (1994 - 1999)

Research Associate, University of California, White Mountain Research Station (1986 - 1994)

Wildlife Biologist, U.S.D.A. Forest Service, White Mountain Ranger District, CA (1987)

Research Assistant, Yale University, Department of Biology, New Haven, CT (1985)

Field biologist, Condor Research Center, Ventura, CA (1983 - 1984)

Field Biologist, Santa Cruz Predatory Bird Research Group, Santa Cruz, CA (1980 - 1983)

Teaching experience:

Continuing Legal Education International, American Law Institute, and University of Pennsylvania Workshops on Markets and the Environment - invited faculty to lecture on the U.S. Endangered Species Act (2004-2008)

Colorado Bar Association, invited faculty to lecture on the U.S. Endangered Species Act (2014)

The Watershed School, Boulder, CO - instructor for May Term course on *Biodiversity And Conservation Issues In Hawaii* (2010, 2013)

University of Colorado, Boulder. Instructor of Genetics (1998 - 1999)

University of Colorado, Boulder - Hughes Undergraduate Research Initiative (1996 - 1999)

Cornell University, Teaching Assistant for Evolutionary Biology (1988 - 1992)

Awards, Fellowships, Memberships, and Affiliations:

Boulder Climbing Community - Stewardship Award (2020)

Desert Lion and Elephant Conservation - Board Member (2012 to present)

International Union for the Conservation of Nature, Caprinae Specialist Group (2000 - 2013)

University of Colorado, Denver, Department of Environmental Science - Adjunct Faculty (2002 - 2006)

University of Denver, Department of Biology - Adjunct Faculty (2002 - 2004)

U.S. Department of Agriculture, Postdoctoral Research Fellowship (1994 - 1996)

Cornell University, Outstanding Graduate Student Teaching Award (1992)

Community Service:

Nederland Fire Protection District: Volunteer Firefighter (1996 - 2013, now retired)

Avocations:

Rock climbing, backcountry telemark skiing, river rafting, and travel to remote locations.

Selected Scientific Publications:

Ramey, R.R., J.M. Diamond, D.J. Cerasale (2021) Density and subsurface burrowing of a desert-dwelling land snail, *Helminthoglypta greggi*, in the western Mohave Desert. *Western North American Naturalist* 81(2):257–263.

Ramey, R.R., J.L. Thorley, A.S. Ivey (2018), Local and population-level responses of Greater sage-grouse to oil and gas development and climatic variation in Wyoming. *PeerJ* 6:e5417; DOI [10.7717/peerj.5417](https://doi.org/10.7717/peerj.5417)

Ramey, R.R., J.L. Thorley, A.S. Ivey (2015) Recent greater sage grouse (*Centrocercus urophasianus*) population dynamics in Wyoming are primarily driven by climate, not oil and gas development. Preprint available at: <https://www.biorxiv.org/content/10.1101/028274v1.full>

Ramey, E.M., R.R. Ramey, L.M. Brown, and S.T. Kelley (2013) Desert-dwelling elephants dig wells to purify drinking water. *Pachyderm* 53:66-72.

Ramey, R.R. (2012) On the Origin of Specious Species. In: *Institutions and Incentives in Regulatory Science*. J. Johnston (ed.), Lexington Books.

- Miller, B.J., B.F.J. Manly, D. Murphy, D. Fullerton, and R.R. Ramey (2012) Primary factors associated with the decline of delta smelt (*Hypomesus transpacificus*) in the San Francisco Bay-Delta Estuary:1972-2006. *Reviews in Fisheries Science* 20(1):1-19.
- Ramey, R.R., L.M. Brown, and F. Blackgoat (2011) Oil and gas development and greater sage grouse (*Centrocercus urophasianus*): a review of threats and mitigation measures. *The Journal of Energy and Development* 35(1):49-78.
- Leggett, K.E.A., L.M. Brown, and R.R. Ramey (2011) Matriarchal associations and reproduction in a remnant subpopulation of desert-dwelling elephants in Namibia. *Pachyderm* 49:20-32.
- Wehausen, J.D., S.T. Kelley, and R.R. Ramey (2011) A review of experimental evidence concerning respiratory disease transmission between domestic sheep and bighorn sheep. *California Fish and Game* 97(1):7-24.
- Ley, R.E. M. Hamady, C. Lozupone, P. Turnbaugh, R.R. Ramey, S. Bircher, M.L. Schlegel, T.A. Tucker, M.D. Schrenzel, R. Knight, and J.I. Gordon (2008) Evolution of mammals and their gut microbes. *Science* 320:1647-1651.
- Ramey, R.R., J.D. Wehausen, H.P. Liu, C.W. Epps, and L. Carpenter (2007) How King et al. (2006) define an "evolutionarily distinct" mouse subspecies: a response. *Molecular Ecology* 16: 3518–3521.
- Safae, S., G.C. Weiser, E.F. Cassirer, R.R. Ramey, and S.T. Kelley (2006) Microbial diversity in bighorn sheep revealed by culture-independent methods. *Journal of Wildlife Disease* 42(3):545-559.
- Ramey, R.R., J.D. Wehausen, H.P. Liu, C.W. Epps, and L. Carpenter (2006) Response to Vignieri et al. (2006): Should hypothesis testing or selective post hoc interpretation of results guide the allocation of conservation effort? *Animal Conservation* 9:244–247.
- Timm, R.M., R.R. Ramey, and the Nomenclature Committee of the American Society of Mammalogists (2005) What constitutes a proper description? *Science* 309:2163-2164.
- Epps, C.W., P.J. Palsboll, J.D. Wehausen, G.K. Roderick, R.R. Ramey II and D.R. McCullough (2005) Highways block gene flow and cause a rapid decline in genetic diversity of desert bighorn sheep. *Ecology Letters* 8:1029-1038.
- Ramey, R.R., H.P. Liu, C.W. Epps, L. Carpenter, and J.D. Wehausen (2005) Genetic relatedness of the Preble's meadow jumping mouse (*Zapus hudsonius preblei*) to nearby subspecies of *Z. hudsonius* as inferred from variation in cranial morphology, mitochondrial DNA, and microsatellite DNA: implications for taxonomy and conservation. *Animal Conservation* 8:329-346.
- Charif, R., R.R. Ramey, K. Payne, W. Langbauer, R. Martin, and L.M. Brown (2005) Spatial relationships and matrilineal kinship in African savanna elephant (*Loxodonta africana*) clans. *Behavioral Ecology and Sociobiology* 57(4):327-338.

- Brown, L.M., R.R. Ramey, B. Jiron, and T. Gavin (2004) Population structure and mtDNA variation in sedentary Neotropical birds isolated by forest fragmentation. *Conservation Genetics* 5:743-757.
- Ramey, R.R., T. Tserenbataa, S. Amgalanbaatar, and Z. Namshir (2004) A new method of argali (*Ovis ammon*) capture using horsemen and drive nets. *Mongolian Journal of Biological Sciences* 2(1):19-21.
- Turner, J.C., C.L. Douglas, C.R. Hallum, P.R. Krausman, and R.R. Ramey (2004) Determination of critical habitat for the endangered Nelson's bighorn sheep in southern California. *Wildlife Society Bulletin*. 32(2):427-448.
- Tserenbataa, T., R.R. Ramey II, O.A. Ryder, T.W. Quinn, and R.P. Reading (2004) A population genetic comparison of Argali sheep (*Ovis ammon*) in Mongolia using ND5 gene of mtDNA: Implications for conservation. *Molecular Ecology* 13:1333-1339.
- Ramey, R.R., G. Luikart, and F.J. Singer (2000) Genetic bottlenecks resulting from restoration efforts: the case of bighorn sheep in Badlands National Park. *Journal of Restoration Ecology*. 8(4S):85-90.
- Ramey, R.R., W.M. Boyce, B. Farrell, and S. Kelley (2000) Phylogeny and host specificity of psoroptic mange mites as indicated by ITS sequence data. *Journal of Medical Entomology* 37(6):791-796.
- Wehausen, J.D. and R.R. Ramey (2000) Cranial morphometric and evolutionary relationships in the northern range of *Ovis canadensis*. *Mammalogy* 81(1):145-161.
- Ramey, R.R. (2000) New perspectives on the evolutionary origins, historic phylogeography, and population structure of North American mountain sheep. In Thomas, A.E, and H.L. Thomas (eds.). *Transactions of the 2nd North American Wild Sheep Conference*. April 6-9, 1999, Reno, NV 470pp.
- Boyce, W.M., R.R. Ramey, T.C. Rodwell, E.S. Rubin, and R.S. Singer (1999) Population subdivision among desert bighorn sheep (*Ovis canadensis*) ewes revealed by mitochondrial DNA analysis. *Molecular Ecology* 8:99-106.
- R.R. Ramey and K. Gottlieb (1998) Keep your DNA dry and in the dark: Considerations on the preservation of DNA forensic evidence. *Forum Conveniens* 9(1):7.
- Young, B., S. Johnson, M. Bahktiara, D. Shugarts, R.K. Young, M. Allen, R.R. Ramey, and D. Kuritzkes. (1998) Resistance mutations in protease and reverse transcriptase genes of human immunodeficiency virus type 1 isolates from patients with combination antiretroviral therapy failure. *Journal of Infectious Diseases* 178:1497-1501.
- Boyce, W.M., P.W. Hedrick, N.E. Muggli-Cockett, C.T. Pendo, and R.R. Ramey (1997) Comparative analysis of intra and interpopulation genetic variation in mountain sheep at major histocompatibility complex and microsatellite loci. *Genetics* 145:421-433.

Ramey, R.R. (1995) Mitochondrial DNA variation, population structure and evolution of mountain sheep in the southwestern United States and Mexico. *Molecular Ecology* 4:429-439.

Wehausen, J.D. and R.R. Ramey (1993) A morphometric reevaluation of the Peninsular bighorn subspecies. *Desert Bighorn Council Transactions* 37:1-10.

Snyder, N.R.F., R.R. Ramey and F. Sibley (1986) The nest-site biology of the California condor. *Condor* 88:228 - 241.

Other publications:

Ramey, R.R. (2014) A doctor's battle with Ebola is a moral tonic for the world. Letter to the Editor of *The Washington Post*. 5 August 2014.

Ramey, R.R. and L.M. Brown. (2011) Extinct Predictions: Dire extinction estimates have not been confirmed in the wild. Invited op ed for the *Financial Post* (Canada). 14 June 2011.

Ramey, R.R. (2011) Species nomenclature, classification and problems of application. In Grzimek's Animal Life Encyclopedia: Evolution. Gale. Farmington Hills, MI.

Congressional testimony:

April, 8 2014, United States House of Representatives, Committee on Resources, Hearing on: *H.R. 4315, (Hastings), "21st Century Endangered Species Transparency Act," H.R. 4316, (Lummis), "Endangered Species Recovery Transparency Act," H.R. 4317, (Neugebauer), "State, Tribal, and Local Species Transparency and Recovery Act," and H.R. 4318, (Huizenga), "Endangered Species Litigation Reasonableness Act."* (Provided oral and written testimony.)

August 1, 2013, United States House of Representatives, Committee on Resources. Oversight Hearing on: *"Transparency and Sound Science Gone Extinct?: The Impacts of the Obama Administration's Closed-Door Settlements on Endangered Species and People."* (Provided oral and written testimony.)

July 3, 2012, California State Legislature, Senate Committee on Natural Resources and Wildlife. Provided oral and written testimony on scientific issues concerning supposed human disturbance of bighorn sheep, relevant to Assembly Bill AB880. (AB880 was subsequently passed and signed into law by Governor Brown).

July 31, 2007, United States House of Representatives, Committee on Resources. Legislative Hearing on: *"Crisis of Confidence: The Political Influence of the Bush Administration on Agency Science and Decision-Making"* (Provided written testimony.)

April 28, 2004, United States House of Representatives, Committee on Resources. Legislative Hearing on: *"H.R. 2933, To amend the Endangered Species Act of 1973 to reform the process for designating critical habitat under that Act."* (Provided oral and written testimony.)