

James W. Cain III

Wildlife and Conservation Science
Department of Biological and Environmental Sciences
Texas A&M University-Commerce, Commerce, Texas
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Education

- Ph.D.** Wildlife and Fisheries Science – University of Arizona, School of Natural Resources, Tucson, Arizona, May 2006
- M.S.** Biological Conservation – California State University, Department of Biological Sciences, Sacramento, California, May 2001
- B.S.** Biological Science – Colorado State University, Department of Biology, Fort Collins, Colorado, May 1997

Academic Positions and Teaching Experience

Assistant Professor (2008 – present) – Wildlife and Conservation Science, Department of Biological and Environmental Sciences, Texas A&M University-Commerce, Commerce, Texas

- | Undergraduate Courses | Semester |
|--|--|
| <i>Quantitative Biology</i> (BSc 412) | Fall 2008, Spring 2009, Fall 2009, Spring 2010 |
| <i>Wildlife Management I</i> (AG/BSc 335) | Fall 2008 |
| <i>Geospatial Mapping</i> (BSc 417) | Fall 2009 |
| <i>Field Methods for Wildlife and Conservation</i> (BSc 337) | Spring 2010 |
- **Graduate Courses**
 - Wildlife-habitat Relationships* (BSc 597) Spring 2009
 - Graduate Quantitative Biology* (BSc 504) Fall 2009
 - Faculty advisor for Texas A&M University-Commerce Student Chapter of The Wildlife Society
 - Organize and supervise undergraduate internships in wildlife management and conservation with outside universities, state and federal agencies and non-governmental organizations.

Adjunct Professor (2007 – present) – Wildlife Conservation and Management, School of Renewable Natural Resources, University of Arizona, 325 Biological Sciences East, Tucson, Arizona

Lecturer (2008) – Post-graduate Project Office, University of the Witwatersrand, Johannesburg, South Africa

- Developed and taught a workshop on Quantitative Methods for Science Masters Students
- Workshop covered principles of research/experimental design, development and testing of research hypotheses, use of the hypothetico-deductive method, and statistical approaches, with an emphasis on the relationships between research hypotheses and experimental design

Lecturer (2007) – School of Animal, Plant, & Environmental Sciences, University of the Witwatersrand, Johannesburg, South Africa

- Taught lectures and laboratories for APES 3038: *Populations and Resources*. Course covered population dynamics, demographic processes, behavioral ecology of resource use, predator-prey and plant-herbivore interactions, competition, parasites and pathogens, food chains and webs, metapopulation dynamics, and population viability analysis.

- Co-taught APES Honors Course: *Approaches to Science*. Presented lectures on study design, statistical inference, and modeling.

Lecturer (2004 – 2005, part-time) – School of Natural Resources, University of Arizona, Tucson, Arizona.

- Assisted with Wildlife and Fisheries Science 444: *Wildlife Management - Mammalian Species* (~6 lectures/year).
- Prepared and presented lectures on the history and evolution of wildlife management in North America, basic concepts of population dynamics, the role of hunting in wildlife management, and welfare factors of wildlife, including water management for wildlife in the Southwest.

Graduate Teaching Assistant (2000 – 2001) – Department of Biological Sciences, California State University, Sacramento, California.

- Taught 5 laboratory sections of BIO 05: *General Biology* during 2 semesters.
- Topics included the introduction to basic principles of biology survey of plant and animal kingdoms, structure and function of organ systems, adaptations to the environment, and evolutionary relationships.

Research Positions

Honorary Research Fellow (2008 – present) – Center for African Ecology, School of Animal, Plant, & Environmental Sciences, University of the Witwatersrand, Johannesburg, South Africa.

- Influence of ecosystem heterogeneity and predation risk on habitat selection, resource use, and movements of formerly migratory wildebeest (*Connochaetes taurinus*) and zebra (*Equus quagga*) in Kruger National Park, South Africa.
- Competition and multi-scale habitat partitioning between tall grass grazers: sable antelope (*Hippotragus niger*), zebra (*Equus quagga*) and buffalo (*Syncerus caffer*).

Postdoctoral Fellow (2006 – 2008) – Center for African Ecology, School of Animal, Plant, & Environmental Sciences, University of the Witwatersrand, Johannesburg, South Africa.

- Synthesize the information gathered on spatial and temporal variation in forage and water resources and on the distribution, movement, and habitat selection of sable antelope, buffalo, and zebra.
- Generate landscape-scale model of spatial and temporal heterogeneity in forage quality using remote sensing data.
- Develop an model to guide management actions with regard to the provision of surface water and fire policy as it affects these species
- Prepare grant proposals, publications and reports.

Project Leader - Dissertation research (2001 – 2006) – School of Natural Resources, University of Arizona, Tucson, Arizona.

- Designed and implemented a large-scale, manipulative study to determine the influence of man-made water sources on desert bighorn sheep in southwestern Arizona.
- Monitored movement and home range use of female desert bighorn sheep using GPS/satellite/VHF telemetry, vegetation and fecal pellet sampling. Scheduled and led annual aerial population surveys.
- Prepared grant proposals, publications and reports.

Project Leader - Thesis research (1999 – 2001) – Department of Biological Sciences, California State University, Sacramento, California.

- Designed and implemented a nest predation study of willow flycatchers and yellow warblers in the central Sierra Nevada, California.
- Scheduled and supervised volunteers and field assistants.

- Conducted territory surveys and mapping, point counts, time-constrained reptile searches, established and maintained track plate transects, conducted nest searches and reproductive monitoring, and constructed remote-triggered cameras to identify nest predators.
- Prepared publications and reports.

Project leader/manager (2000 – 2001) – Department of Biological Sciences, California State University, Sacramento, California.

- Designed, implemented, and managed a study of avian activity, habitat use, and assessment of bird-aircraft strike hazard at Beale Air Force Base, California.
- Developed budget and supervised personnel.
- Prepared publication and reports.
- Made recommendations for future avian research and monitoring projects concerning the aircraft-bird strike hazard and on possible management actions for the reduction of the bird-aircraft strike hazard at Beale Air Force Base.

Project Leader (1999 – 2000) – Department of Biological Sciences, California State University, Sacramento, California.

- Supervised a demography study of willow flycatchers in the Sierra Nevada, California.
- Scheduled and supervised field assistants, conducted territory surveys and mapping, conducted point counts, nest searches, reproductive monitoring, and nestling banding.
- Prepared agency reports.

Graduate Students

2009 – present. Joseph Lewis. M.S. student. Department of Biological and Environmental Science, Texas A&M University-Commerce. Thesis: *Population status, habitat selection and seasonal activity of an inland alligator (Alligator mississippiensis) population at the Fort Worth Nature Center.*

2009 – present. Kathryn N. Smith. M.S. student, Department of Biological and Environmental Science, Texas A&M University-Commerce. Thesis: *Nesting ecology and multi-scale habitat selection of Black-capped vireos (Vireo atricapilla) in the Devil's River area of Texas.*

2009 – present. Morgan Vance. M.S. student. Department of Biological and Environmental Science, Texas A&M University-Commerce. Thesis: *Influence of ecosystem heterogeneity and predation risk on habitat selection, resource use, and movements of formerly migratory wildebeest (Connochaetes taurinus) and zebra (Equus quagga) in Kruger National Park, South Africa.*

2006 – present. Ryan O'Shaughnessy, M.S. student, School of Animal, Plant, and Environmental Sciences, University of the Witwatersrand, Johannesburg, South Africa. Thesis: *Comparative diet and habitat selection of puku (Kobus vardonii) and lechwe (Kobus leche) antelope on the Chobe River Floodplain, Botswana.*

2006 – present. Committee member. Moses Otiali Esilaba, Ph.D. student, School of Animal, Plant, and Environmental Sciences, University of the Witwatersrand, Johannesburg, South Africa. Dissertation: *Effect of wildlife on forage selection by cattle in a semi-arid environment, Kenya.*

2007 – 2009. Abraham Nqabutho Dabengwa, M.S. student, School of Animal, Plant, and Environmental Sciences, University of the Witwatersrand, Johannesburg, South Africa. Thesis: *Assessing the role of woody cover in resource selection by sable antelope (Hippotragus niger) in northern Kruger National Park.*

Publications and presentations

Publications

Manuscripts in preparation:

- Cain, J.W., III**, and N. Owen-Smith. In prep. The costs of drinking: relative water dependency of sable antelope and zebra. To be submitted to *Journal of Zoology*.
- Cain, J.W., III**, N. Owen-Smith, and V.A. Macandza. In prep. Diel habitat use of buffalo, sable antelope, and zebra in northern Kruger National Park, South Africa. To be submitted to *Journal of Wildlife Management* or *Journal of Zoology*.
- Macandza, V.A., N. Owen-Smith, and **J.W. Cain, III**. In prep. Habitat partitioning among tall grass grazers in Kruger National Park: sable antelope, zebra and buffalo. To be submitted to *Ecology*.
- Macandza, V.A., N. Owen-Smith, and **J.W. Cain, III**. In prep. Competitive relationships and the decline of a low density grazer in the Kruger National Park. To be submitted to *Journal of Animal Ecology*.
- Cain, J.W., III**, P.R. Krausman, J.R. Morgart, and G. Duff. In prep. Impact of severe drought on nutritional quality of desert bighorn sheep forage. To be submitted to the *Journal of Wildlife Management*.
- Cain, J.W., III**, P.R. Krausman, and J.R. Morgart. In prep. Habitat use and distribution of desert bighorn sheep in relation to forage conditions and the influence of perennial water sources. To be submitted to the *Journal of Wildlife Management*.
- Cain, J.W., III**, J.P. Marshal, V.C. Bleich, and P.R. Krausman. In prep. Influence of precipitation and El Niño on population dynamics of desert bighorn sheep in Arizona and California. To be submitted to *Journal of Animal Ecology* or *Ecology*.

Published and in press manuscripts:

- Flesch, A.D., C.W. Epps, **J.W. Cain, III**, M. Clark, P.R. Krausman, and J.R. Morgart. In Press. Potential effects of the United States-Mexico Border Fence on Wildlife. *Conservation Biology*.
- Marshal, J.P., **J.W. Cain, III**, V.C. Bleich, and S.S. Rosenstock. 2009. Intrinsic and extrinsic sources of variation in the dynamics of large herbivore populations. *Canadian Journal of Zoology* 87:103-111.
- Parrini, F., **J.W. Cain, III**, and P.R. Krausman. 2009. *Capra ibex*. *Mammalian Species* 830:1-12.
- Smith, S.M. and **J.W. Cain, III**. 2009. Foraging efficiency and vigilance behaviour of impala: the influence of herd size and neighbor density. *African Journal of Ecology* 47:109-118.
- Cain, J.W., III**, P.R. Krausman, J.R. Morgart, B.D. Jansen, and M.B. Pepper. 2008. Responses of desert bighorn sheep to the removal of water sources. *Wildlife Monographs* 171.
- Cain, J.W., III**, B.D. Jansen, R.R. Wilson, and P.R. Krausman. 2008. Potential thermoregulatory advantages of shade use by desert bighorn sheep. *Journal of Arid Environments* 72:1518-1525.
- Magome, H., **J.W. Cain, III**, N. Owen-Smith, and S.R. Henley. 2008. Forage selection of sable antelope in Pilanesberg Game Reserve, South Africa. *South African Journal of Wildlife Research* 38:35-41.
- Krausman, P.R., L.K. Harris, R.R. Wilson, **J.W. Cain, III**, K.K.G. Koenen. 2007. Bombing and Sonoran pronghorn: a clear and present danger? *Journal of Wildlife Management* 71:2820-2823.
- Owen-Smith, N. and **J.W. Cain, III**. 2007. Indicators of adaptive responses in home range utilization and movement patterns by a large mammalian herbivore. *Israel Journal of Ecology & Evolution* 53:423-438.
- Cain, J.W., III**, P.R. Krausman, S.S. Rosenstock, and J.C. Turner. 2006. Thermoregulation and water balance in desert ungulates. *Wildlife Society Bulletin* 34:570-581.

- Cain, J.W., III**, K.S. Smallwood, H.L. Loffland, and M.L. Morrison. 2006. Influence of mammal activity on nesting success of passerines. *Journal of Wildlife Management* 70:522-531.
- Krausman, P.R., J. Avey, P.K. Devers, J. Tull, B.D. Jansen, and **J.W. Cain, III**. 2006. Distances moved by desert mule deer when startled. *Southwestern Naturalist* 51:436-439.
- Krausman, P.R., S.S. Rosenstock, and **J.W. Cain, III**. 2006. Introduction: Developed waters for wildlife: Science, perception, values and controversy. *Wildlife Society Bulletin* 34:563-569.
- Cain, J.W., III**, H.E. Johnson, and P.R. Krausman. 2005. Wildfire and desert bighorn sheep habitat, Santa Catalina Mountains, Arizona. *Southwestern Naturalist* 50:506-513.
- Cain, J.W., III**, P.R. Krausman, B.D. Jansen, and J.R. Morgart. 2005. Influence of topography and GPS fix interval on GPS collar performance. *Wildlife Society Bulletin* 33:926-934.
- Krausman, P.R., J.R. Morgart, L.K. Harris, C.S. O'Brien, **J.W. Cain, III**, S. S. Rosenstock. 2005. Introduction: Management for the survival of Sonoran pronghorn in the United States. *Wildlife Society Bulletin* 33:5-7.
- Pepper, M.B., P.R. Krausman, B.D. Jansen, and **J.W. Cain, III**. 2005. Desert bighorn sheep osteology. *Desert Bighorn Council Transactions* 48:23-27.
- Cain, J.W., III**, P.R. Krausman, and H.L. Germaine. 2004. *Antidorcas marsupialis*. *Mammalian Species* 753:1-7.
- Cain, J.W., III**, D.M. Queheillalt, M.L. Morrison, and K. Christopherson. 2004. Bird habitat use and bird-aircraft strikes at Beale Air Force Base, California. *Transactions of the Western Section of the Wildlife Society* 40:90-100.
- Krausman, P.R., V.C. Bleich, **J.W. Cain, III**, T.R. Stephenson, D.W. DeYoung, P.W. McGrath, P.K. Swift, B.M. Pierce, and B.D. Jansen. 2004. Neck lesions in ungulates from collars incorporating satellite technology. *Wildlife Society Bulletin* 32:987-991.
- Cain, J.W., III**, and M.L. Morrison. 2003. Reproductive ecology of dusky flycatchers in montane meadows of the central Sierra Nevada. *Western North American Naturalist* 63:507-512.
- Cain, J.W., III**, M.L. Morrison, and H.L. Bombay. 2003. Influence of predator activity on the nest success of willow flycatchers and yellow warblers. *Journal of Wildlife Management* 67:600-610.
- Cain, J.W., III**, P.R. Krausman, J.R. Morgart, and J.J. Hervet. 2002. Use of GPS/Satellite telemetry systems in mountain sheep research. *Desert Bighorn Council Transactions* 46:10-17.
- Queheillalt, D.M., **J.W. Cain, III**, D.E. Taylor, M.L. Morrison, S.L. Hoover, N. Tuatoo-Bartley, L. Ruge, K. Christopherson, M.D. Hulst, M.R. Harris, and H.L. Keough. 2002. The exclusion of rare species from community level analyses. *Wildlife Society Bulletin* 30:756-759.
- Wilson, T.G., and **J.W. Cain**. 1997. Resistance to the insecticides Lufenuron and Propoxur in natural populations of *Drosophila melanogaster*. *Journal of Economic Entomology* 90:1131-1136.

Government Publications and Agency Reports

- Smith, K.N., M.L. Morrison, and **J.W. Cain, III**. 2009. Black-capped vireo monitoring at Devils River State Natural Area. Annual Report to Texas Parks and Wildlife Department.
- Smith, K.N., M.L. Morrison, and **J.W. Cain, III**. 2009. Black-capped vireo monitoring at Dolan falls Preserve. Annual Report to The Nature Conservancy.
- Cain, J.W., III** and N. Owen-Smith. 2008. Diel patterns of habitat use by sable antelope, zebra, and buffalo in northern Kruger National Park. Research Progress Report. South African National Parks, Kruger National Park Scientific Services, Skukuza, South Africa.
- Cain, J.W., III**, P.R. Krausman, S.S. Rosenstock, and J.C. Turner. 2005. Literature review and annotated bibliography: Water requirements of desert ungulates. USGS Open-File Report

- 2005-1141. United States Geological Survey, Southwest Biological Science Center, Sonoran Desert Research Station, University of Arizona, Tucson, Arizona, USA.
- Krausman, P.R., J.R. Morgart, L.K. Harris, C.S. O'Brien, **J.W. Cain, III**, and S.S. Rosenstock. 2004. Sonoran pronghorn literature: An annotated bibliography. USGS Open-File Report 2005-1265. United States Geological Survey, Cooperative Park Studies Unit, School of Natural Resources, The University of Arizona, Tucson, Arizona, USA.
- Krausman, P.R., **J.W. Cain, III**, and H.E. Johnson. 2004. Impact of the Bullock and Aspen fires on desert bighorn sheep habitat in the Pusch Ridge Wilderness Area, Arizona. Final report in fulfillment of contract #41-8197-3-0107. United States Forest Service, Coronado National Forest.
- Stitt, E.W., **J.W. Cain, III**, C.R. Schwalbe, and D.E. Swann. 2003. Using infrared cameras to monitor burrow associates of desert tortoises at Saguaro National Park. Final report to Western National Parks Association.
- Cain, J.W.**, M.L. Morrison, and W.E. Avery. 2001. Avian behavior and winter habitat use at Beale Air force Base, California (November 2000–February 2001). Final Report to Beale Air Force Base, United States Air Force.
- Bombay, H.L., M.L. Morrison, D.E. Taylor, and **J.W. Cain**. 2001. Annual report and preliminary demographic analysis for willow flycatcher monitoring in the Central Sierra Nevada. U.S. Forest Service, Tahoe National Forest.
- Morrison, M.L., H.L. Bombay, **J.W. Cain**, and D.E. Taylor. 2000. Annual report and preliminary demographic analysis for willow flycatcher monitoring in the central Sierra Nevada. U.S. Forest Service, Tahoe National Forest.
- Bombay, H.L., **J.W. Cain**, M.L. Morrison, and L.S. Hall. 1999. Annual report for the challenge cost-share agreement between California State University, Sacramento and U.S.D.A. Forest Service, Tahoe National Forest regarding willow flycatcher monitoring.
- Morrison, M.L., L.S. Hall, H.L. Bombay, and **J.W. Cain**. 1999. Annual report for the memorandum of understanding between California State University, Sacramento and California Department of Fish and Game regarding willow flycatcher.

Presentations and Posters (*presenter)

- ***Cain, J.W., III**, N. Owen-Smith, and V. Macandza. 2009. The costs of drinking: comparative water dependency of sable antelope and zebra in Kruger National Park, South Africa. 16th Annual Conference of The Wildlife Society, Monterey, California, USA.
- *Smith, S.M. and **J.W. Cain, III**. 2008. Foraging efficiency and vigilance behavior of impala. 15th Annual Conference of the Wildlife Society, Miami, Florida, USA.
- ***Cain, J.W., III**, and N. Owen-Smith. 2008. Habitat management for large mammals in arid and semi-arid ecosystems: consequences of providing water sources for wildlife. Invited Seminar. Harry Oppenheimer Okavango Research Centre, University of Botswana, Maun, Botswana.
- Cain, J.W., III**, *B.D. Jansen, R.R. Wilson, and P.R. Krausman. 2008. Thermoregulatory advantages of shade use by desert bighorn sheep. 88th Annual Meeting of the American Society of Mammalogists, Brookings, South Dakota, USA.
- *Macandza, V., N. Owen-Smith, B.F. Erasmus, and **J.W. Cain, III**. 2008. Spatial separation between low density and high density grazers: sable antelope, buffalo, and zebra in the Kruger National Park. 6th Annual Kruger National Park Science Networking Meeting, Skukuza, South Africa.
- *Smith, S.M. and **J.W. Cain, III**. 2008. Foraging efficiency and vigilance behavior of impala: the influence of herd size and distribution. Annual Meeting of the Arizona/New Mexico Chapter of The Wildlife Society, Prescott, Arizona, USA

- ***Cain, J.W., III**, P.R. Krausman, J.R. Morgart, B.D. Jansen, and M.B. Pepper. 2007. Effects of removing man-made water sources on desert bighorn sheep. 14th Annual Conference of The Wildlife Society, Tucson, Arizona, USA.
- *Smith, S.M. and **J.W. Cain III**. 2007. Group foraging and vigilance behavior of impala. 14th Annual Conference of The Wildlife Society, Tucson, Arizona, USA. (Poster).
- ***Cain, J.W., III**, P.R. Krausman, J.R. Morgart, B.D. Jansen, and M.B. Pepper. 2007. Effects of removing man-made water sources on desert bighorn sheep. 21st Annual Meeting of the Society for Conservation Biology, Port Elizabeth, South Africa. (Poster).
- ***Cain, J.W., III**, and N. Owen-Smith. 2007. Water dependency and movements of sable antelope. 5th Annual Kruger National Park Science Networking Meeting, Skukuza, South Africa.
- ***Cain, J.W., III**, P.R. Krausman, and J.R. Morgart. 2006. Effects of removing man-made water sources on adult mortality and juvenile recruitment of desert bighorn sheep. Annual Meeting of the Arizona/New Mexico Chapter of The Wildlife Society, Flagstaff, Arizona, USA.
- ***Cain, J.W., III**, H.E. Johnson, and P.R. Krausman. 2005. Effects of wildfires on desert bighorn sheep habitat in the Santa Catalina Mountains, Arizona. 48th Annual Meeting of the Desert Bighorn Council, Alpine, Texas, USA.
- ***Cain, J.W., III**, P.R. Krausman, J.R. Morgart, and B.D. Jansen. 2004. Influence of topography and fix interval on GPS collar performance. 11th Annual Conference of The Wildlife Society, Calgary, Alberta, Canada.
- Cain, J.W., III.**, *P.R. Krausman, and J.R. Morgart. 2004. Response of desert bighorn sheep to the removal of man-made water sources. Wildlife Water Development Workshop: a review of the science, policy, and human dimensions. Tempe, Arizona, USA.
- *Bombay, H.L., M.L. Morrison, **J.W. Cain**, and D.E. Taylor. 2003. Demographics for willow flycatchers in the central Sierra Nevada, California: 1997-2002. 10th Annual Conference of The Wildlife Society, Burlington, Vermont, USA.
- ***Cain, J.W., III**, P.R. Krausman, J.R. Morgart, and J.J. Hervet. 2003. Distribution of desert bighorn sheep in relation to forage conditions. Third International Wildlife Management Congress, Christchurch, New Zealand.
- ***Cain, J.W., III**, P.R. Krausman, J.R. Morgart, and J.J. Hervet. 2002. Benefits of using GPS/Satellite telemetry systems in wildlife research. Annual Meeting of the Arizona/New Mexico Chapter of The Wildlife Society, Safford, Arizona, USA.
- ***Cain, J.W., III**, P.R. Krausman, J.R. Morgart, and J.J. Hervet. 2002. Use of GPS/Satellite telemetry systems in desert bighorn sheep research. 46th Annual Meeting of the Desert Bighorn Council, Palm Springs, California, USA.
- ***Cain, J.W., III**, and M.L. Morrison. 2001. Nest success of willow flycatchers and yellow warblers in relation to predator activity in the central Sierra Nevada, California. Annual Conference of the Western Section of The Wildlife Society, Sacramento, California, USA.
- ***Cain, J.W., III**, and M.L. Morrison. 2000. Nest success of willow flycatchers and yellow warblers in relation to predator activity in the central Sierra Nevada, California. Annual Conference of the Western Section of The Wildlife Society, Riverside, California, USA.
- *Bombay, H.L., M.L. Morrison, **J. W. Cain**, and D.E. Taylor. 2000. Preliminary demographics for willow flycatchers in the central Sierra Nevada, California: 1997-2000. Conference for the Ecology and Conservation of the Willow Flycatcher, Tempe, Arizona, USA.

Research Grants (% involvement)

2009 – Dallas Chapter of the Safari Club. Research Grant. Habitat selection, movements, and conservation of formerly migratory wildebeest (*Connochaetes taurinus*) in southern Africa. \$6,732 (100%).

- 2008 – Office of Graduate Studies and Research, Texas A&M University-Commerce. Faculty Research Enhancement Grant. Influence of ecosystem heterogeneity and predation on habitat selection, resource use, and movements of non-migratory wildebeest. \$13,875 (100%).
- 2008 – Faculty Development Committee, Texas A&M University-Commerce. International Studies Grant. Habitat selection, movements, and conservation of formerly migratory wildebeest (*Connochaetes taurinus*) in South Africa. \$1,700 (100%).
- 2008 – Office of Graduate Studies and Research, Texas A&M University-Commerce, Faculty Mini-grant. Habitat selection, movements, and conservation of formerly migratory wildebeest (*Connochaetes taurinus*) in South Africa. \$600 (100%).
- 2006 – Arizona Desert Bighorn Sheep Society, Phoenix, Arizona, Research Grant. Impact of drought on desert bighorn sheep forage. \$5,000 (75%).
- 2006 – Foundation for North American Wild Sheep, Cody Wyoming, Grant in Aid of Research. Impact of drought on desert bighorn sheep forage. \$5,000 (75%).
- 2005 – Foundation for North American Wild Sheep, Cody Wyoming, Grant in Aid of Research. Influence of man-made water sources on desert bighorn sheep. \$20,000 (75%).
- 2004 – Foundation for North American Wild Sheep Cody, Wyoming, Grant in Aid of Research. Influence of man-made water sources on desert bighorn sheep. \$5,000 (75%).
- 2004 – United States Forest Service, Coronado National Forest. Impact of the Bullock and Aspen fires on desert bighorn sheep habitat in the Pusch Ridge Wilderness Area, Arizona. \$5,000 (50%).
- 2003 – Arizona Game and Fish Department. Literature review and annotated bibliography on water requirements of desert ungulates. \$9,900 (50%).
- 2003 – Boone and Crockett Club, Missoula, Montana, Grant in Aid of Wildlife Research. Influence of man-made water sources on desert bighorn sheep. \$7,250 (80%).
- 2003 – Foundation for North American Wild Sheep, Cody, Wyoming, Grant in Aid of Research. Influence of man-made water sources on desert bighorn sheep. \$10,000 (90%).
- 2002 – Boone and Crockett Club, Missoula, Montana, Grant in Aid of Wildlife Research. Influence of man-made water sources on desert bighorn sheep. \$10,000 (90%).
- 2002 – 2006 - Arizona Agricultural Experiment Station Project Grant, University of Arizona. Manipulating water sources of desert bighorn sheep in the Cabeza Prieta National Wildlife Refuge, Arizona. \$35,000 (50%).

Awards, Scholarships, and Fellowships

- 2007 – Postdoctoral Research Fellowship. National Research Foundation, South Africa.
- 2007 – Postdoctoral Research Fellowship. School of Animal, Plant, & Environmental Sciences, University of the Witwatersrand, South Africa.
- 2006 – Postdoctoral Research Fellowship. School of Animal, Plant, & Environmental Sciences, University of the Witwatersrand, South Africa.
- 2006 – Doug Morrison Award, Arizona Chapter of The Wildlife Society
- 2005 – Rick F. Seegmiller Memorial Scholarship.
- 2005 – Hansen-Welles Memorial Scholarship, Desert Bighorn Council.
- 2004 – Arizona Desert Bighorn Sheep Society Scholarship.
- 2003 – Hansen-Welles Memorial Scholarship, Desert Bighorn Council.
- 2003 – Arizona Desert Bighorn Sheep Society Scholarship.
- 2002 – National Fish and Wildlife Foundation Budweiser Conservation Scholarship.
- 2002 – Hansen-Welles Memorial Scholarship, Desert Bighorn Council.
- 2001 – Biological Conservation Scholarship. Department of Biological Sciences, California State University, Sacramento.

2001 – Graduate Research Award. Biological Sciences Alumni Chapter, Department of Biological Sciences, California State University, Sacramento.

2000 – Biological Conservation Scholarship. Department of Biological Sciences, California State University, Sacramento.

Professional Affiliations

- American Society of Mammalogists
- Association of Field Ornithologists
- Cooper Ornithological Society
- Desert Bighorn Council
- South African Wildlife Management Association
- The Wildlife Society
 - Certified Wildlife Biologist

Professional Service

Editorial Service

- Editor: Krausman, P.R., and Cain, J.W. III, editors. In Prep. The Basics of Wildlife Management. The Wildlife Society and John Hopkins University Press.
- Editor: Cain, J.W., III, and P.R. Krausman, editors. 2006. Proceedings of the 2005 Conference of the Southwest Section of The Wildlife Society. Managing Wildlife in the Southwest: New Challenges for the 21st Century. Southwest Section of The Wildlife Society, Tucson, Arizona, USA.
- Associate Editor (2005): Special Section of *The Wildlife Society Bulletin*
- Technical editor (2004 – 2007): *Wildlife Monographs*

Reviewer

- *African Journal of Ecology* (2008 – present)
- *Animal Behaviour* (2006)
- *Canadian Field Naturalist* (2009)
- *European Journal of Wildlife Research* (2005 – present)
- *Journal of Applied Ecology* (2009 – present)
- *Journal of Arid Environments* (2006 – present)
- *Journal of Wildlife Management* (2003 – present)
- *Southwestern Naturalist* (2009)
- *Studies in Avian Biology* (2004)
- *Western North American Naturalist* (2008 – present)
- *Wildlife Society Bulletin* (2003 – 2006)
- *Wilson Bulletin* (2009 – present)

Professional Organization and Conference Service

- Faculty Advisor (2008 – present). Student Chapter of The Wildlife Society, Texas A&M University-Commerce
- Board Member (2004 – 2005). Corresponding Secretary, Arizona Chapter of The Wildlife Society.
- Committee Member. (2005). Conference Planning Committee. 2006. Annual Meeting of the Arizona/New Mexico Chapter of The Wildlife Society, Flagstaff, Arizona, USA
- Committee Member (2005). Conference Planning and Program Committees. Conference of the Southwest Section of The Wildlife Society: Managing Wildlife in the Southwest: New Challenges for the 21st Century, Alpine, Texas, USA.

- Committee chair. (2005). Proceedings Committee. Conference of the Southwest Section of The Wildlife Society: Managing Wildlife in the Southwest: New Challenges for the 21st Century, Alpine, Texas, USA
- Session chair. (2006). Annual Meeting of the Arizona/New Mexico Chapter of The Wildlife Society, Flagstaff, Arizona, USA.
- Session chair. (2004). Annual Meeting of the Arizona/New Mexico Chapter of The Wildlife Society, Safford, Arizona, USA.
- Session chair. (2003). Third International Wildlife Management Congress, Christchurch, New Zealand.

References

Dr. Paul R. Krausman, Boone and Crockett Professor of Wildlife Conservation, College of Forestry and Conservation, Wildlife Biology Program, 32 Campus Drive Forestry Building University of Montana, Missoula, Montana 59812
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