

NICOLE KORFANTA

Curriculum Vitae
korfanta@uwyo.edu

EDUCATION

Ph.D. in Zoology and Physiology, 2011
University of Wyoming

M.S. in Zoology and Physiology, 2001
University of Wyoming
Minor: Statistics

A.B. in Integrative Biology, 1995
University of California, Berkeley

EMPLOYMENT HISTORY

Director

Ruckelshaus Institute of Environment and Natural Resources, University of Wyoming 2013 – present

Guide and manage a university research and outreach unit with the mission of advancing the understanding and resolution of complex environmental and natural resources challenges. The Ruckelshaus Institute supports stakeholder-driven solutions to environmental challenges by communicating relevant research and promoting collaborative decision making. Specific duties include:

- Natural resource science and policy analysis for stakeholders and decision-makers (e.g., Open Spaces Initiative, Energy Development Mitigation Initiative, Western Water Initiative, Sustainability Initiative)
- Bridging university scholarship with the natural resource community through effective outreach (e.g., conferences, forums, workshops, presentations, and white papers); engaging diverse constituents, including a prominent advisory board, agencies, industry, non-governmental organizations, and the general public
- Associate Editor of *Western Confluence*, a bi-annual magazine intended to communicate complex natural resources stories through compelling story telling
- Ecological research on sensitive species, including work in western U.S. and internationally; focus on population demographic responses to landscape change and how those shape community structure, population viability analysis, and reserve areas
- Sustainability education and practice including improving campus operations and providing green building outreach
- Fundraising and grant writing, donor cultivation, and stewardship
- Personnel management including supervisory responsibilities, hiring, and professional development
- Teaching, including a graduate capstone course on U.S. environmental assessment, policy, and management; other courses as needed

Previous positions with the Haub School of Environment and Natural Resources, University of Wyoming

Associate Director, Haub School (2010 – 2013)

Assisted the director in guiding the William D. Ruckelshaus Institute and academic programs of the Haub School. Vision setting and day-to-day management of an applied research and outreach program with a focus on energy development mitigation, land use, and collaborative decision making. Oversaw a growing undergraduate and graduate program in interdisciplinary natural resource studies. Assisted with curriculum development and taught undergraduate and graduate courses on environmental science and natural resource policy.

Assistant Director, Academic Programs (2001 – 2010)

Responsible for interdisciplinary environment and natural resources curricular development and assessment, professional development short courses, teaching, and student advising. Managed student recruitment and grew the program from 40 to 150 students. Grant writing and private fundraising. Advanced campus sustainability through curricula, service, and green building initiatives, including overseeing the creation of one of UW's first LEED-certified green buildings (Bim Kendall House). Facilitated multi-stakeholder processes for complex wildlife issues (e.g., brucellosis, pallid sturgeon science, and prairie dog management). Organized distinguished speaker series, film series, forums, conferences, and professional training workshops.

Statistical Analyst

Department of Zoology and Physiology, University of Wyoming (2001)

Independently analyzed a large U.S. Forest Service dataset using a variety of statistical techniques to determine the effects of forest management practices on mammal populations.

Teaching Assistant

Department of Zoology and Physiology, University of Wyoming (1998 – 2001)

Prepared and taught laboratories for several biology courses.

Environmental Impact Statement Reviewer

Ruckelshaus Institute of Environment and Natural Resources, University of Wyoming (2000)

Served on an independent review board to summarize and evaluate the wildlife component of an Environmental Impact Statement for Winter Recreational Use in the Greater Yellowstone Area.

Lecturer

Department of Zoology and Physiology, University of Wyoming (1999)

Prepared and delivered lectures for General Ornithology course.

Entomology Laboratory and Field Technician

University of California, Berkeley (1994-1998)

Research assistant for biological control of insect pests in agricultural crops. Conducted field and laboratory trials. Managed and operated insectary of insect pests and parasites.

**Park Ranger
National Park Service (1994)**

Operated Hodgdon Meadow Campground in Yosemite National Park. Provided public education on Yosemite natural history. Field assistant for Great Grey Owl monitoring project.

PEER-REVIEWED PUBLICATIONS

Korfanta, N. M., M. L. Mobley, I. C. Burke. 2015. Fertilizing western rangelands for mule deer: an assessment of benefits of risks. *Wildlife Society Bulletin* 39: 1-8.

Korfanta, N. M., W. D. Newmark, M. J. Kauffman. 2012. Long-term demographic consequences of habitat fragmentation to a tropical understory bird community. *Ecology* 93: 2548-2559.

Barclay, J. H, **N. M. Korfanta,** M. J. Kauffman. 2011. Long-term population dynamics of a managed burrowing owl (*Athene cunicularia*) population. *Journal of Wildlife Management* 75:1295-1306.

Korfanta, N. M., D. B. McDonald, and T. E. Glenn. 2005. Burrowing owl (*Athene cunicularia*) population genetics: A comparison of North American forms and migratory habits. *Auk* 122: 464-478.

Korfanta, N. M., N. A. Schable, and T. C. Glenn. 2002. Isolation and characterization of microsatellite DNA primers in Burrowing Owl (*Athene cunicularia*). *Molecular Ecology Notes* 2: 584-585.

Korfanta, N. M., L. W. Ayers, S. H. Anderson, D. B. McDonald. 2001. A preliminary assessment of Burrowing Owl population status in Wyoming. *Journal of Raptor Research* 35: 337-343.

ARTICLES AND REPORTS

Korfanta, N. M. “Realtor conservationists—Anticipating residential development to protect habitat.” *Western Confluence*. Aug. 2016: 34-36.

Korfanta, N. M. “The bone people—The booming business of antler hunting on public lands.” *Western Confluence*. Jan. 2016: 18-20.

Korfanta, N. “Associate Editor’s note.” *Western Confluence*. Aug. 2015: i.

Korfanta, N. and N. Graf. “Sage grouse shape development patterns in Wyoming.” *Western Confluence*. Aug. 2015: 20. Print.

Korfanta, N. “Farming sagebrush.” *Western Confluence*. Aug. 2015: 24-25. Print.

Freedman, K.S. and **N.M. Korfanta.** 2014. Public Opinion on Natural Resource Conservation in Wyoming. Wyoming Open Spaces Initiative. Laramie, Wyoming: Ruckelshaus Institute of Environment and Natural Resources.

Ruckelshaus Institute of Environment and Natural Resources. 2005. Water production from coalbed methane development in Wyoming: a summary of quantity, quality, and management options. Prepared for the Office of the Governor, State of Wyoming.

McDonald, D., **N.M. Korfanta**, and S.J. Lantz. 2004. The Burrowing Owl (*Athene cunicularia*): a technical conservation assessment. [Online]. USDA Forest Service, Rocky Mountain Region. Download: <http://www.fs.fed.us/r2/projects/scp/assessments/burrowingowl.pdf>

Buskirk, S. W. and **N. M. Korfanta**. 2002. Parameter refinement for habitat capability models for the Rocky Mountains. Unpublished report to U.S.D.A. Forest Service, Region 2, Department of Zoology and Physiology, University of Wyoming, Laramie. 32 pp.

Ayers, L. W. and **N. M. Korfanta**. 2000. Wyoming State Summary of Burrowing Owl Research and Status *In* Ayers, L. W. and S. H. Anderson, eds. Status Assessment and Conservation Plan for the Western Burrowing Owl in the United States. Administrative Report. U.S. Department of Interior, Fish and Wildlife Service, Denver, CO.

Da Silva, P.G., K.M. Daane, **N.M. Korfanta**, R.H. Beede, B.A. Holtz, and W.J. Bentley. 1996. Biological control of hemipteran pests of pistachio: appearance, activity, and movement of insects in the orchard. California Pistachio Industry Annual Report, Crop Year 1995-1996, pp. 61-66.

Da Silva, P.G., K.M. Daane, **N.M. Korfanta**, R.H. Beede, B.A. Holtz, and W.J. Bentley. 1997. Biological Control of hemipteran pests of pistachio: effect of orchard floor management practices on stink bugs and their natural enemies on kernel necrosis and epicarp lesion. California Pistachio Industry Annual Report, Crop Year 1996-1997.

W.J. Bentley, W.W. Cone, K.M. Daane, and **N.M. Korfanta**. 1996. Mealybugs in North American vineyards. A guide to the identification and biology of mealybugs.

EDITED REPORTS

Rashford, B. S., A. M. Scott, M. Hayes, H. Sawyer. 2015. Targeting conservation easement purchases to benefit wildlife. University of Wyoming Ruckelshaus Institute of Environment and Natural Resources. Edited by **N. M. Korfanta** and S. L. Miller.

Scofield, A. M., B. S. Rashford, D. M. McLeod, R. H. Coupal, S. N. Lieske, S. E. Albeke. 2015. Residential development effects on firefighting costs in the wildland-urban interface. University of Wyoming Ruckelshaus Institute of Environment and Natural Resources. Edited by **N. M. Korfanta**, K. Freedman, and C. Kelley.

TEACHING EXPERIENCE

- Environment and Natural Resources 1100 – Environmental and Natural Resources Problems and Policies (co-instructor)
- Environment and Natural Resources 2000 – Environment and Society (co-instructor)

- Environment and Natural Resources 3900 – Seminar: Politics of Biodiversity Management (instructor)
- Environment and Natural Resources 4000/5000 – Approaches to Environmental and Natural Resources Problem-Solving (mentor)
- Environment and Natural Resources 4600/5600 – Campus Sustainability (co-instructor)
- Environment and Natural Resources 4900/5900 – Environment and Natural Resources Policy Practice (team mentor)
- Environment and Natural Resources 5900 – Environmental Assessment Graduate Capstone (lead instructor)
- Biology 1010 – General Biology (taught laboratories)
- Biology 2020 – General Biology (taught laboratories)
- Zoology and Physiology – Comparative Chordate Anatomy (taught laboratories)
- Zoology and Physiology 3115 – Human Physiology (taught laboratories and lectured)
- Zoology and Physiology 4350/5350 – General Ornithology (lecturer)

GRADUATE STUDENT ADVISING

- Cait Rottler, Ph.D. Botany and Environment and Natural Resources, committee member (May 2016)
- Joshua Taboga, M.A. Global and Area Studies/Environment and Natural Resources, committee member. Sustainability and the auto-love affair: Challenging German pro-car structure in Freiburg-Vauban (May 2015)
- Bailey Schreiber, J.D./M.A. in Environment and Natural Resources, committee member. Expanding the mitigation horizon: The role of the habitat exchange in landscape-scale mitigation (May 2015)
- Jenny Johnson, M.S. Economics and Finance/Environment and Natural Resources, committee member. “The implications of invasive species policies on the regional economy of the Great Lakes: A computable general equilibrium model” (May 2013)
- Jarod Waite, M.S. Natural Science/Environment and Natural Resources, committee chair. “High school environmental science curriculum: How place, experience, and the study of ornithology can lead to a deeper understanding of ecological concepts and the scientific process.” (Dec 2011)

RESEARCH PRESENTATIONS

- Korfanta, N. M., M. L. Mobley, and I. C. Burke. Fertilizing western rangelands for mule deer: a sound mitigation strategy? Research Across Disciplines Departmental Seminar, Ecosystem Science and Management Korfanta, Laramie, WY (2014)
- Korfanta, N. M., M. L. Mobley, and I. C. Burke. Fertilizing western rangelands for mule deer: a sound mitigation strategy? The Wyoming Chapter of the Wildlife Society Annual Meeting. Rock Springs, WY (2013)
- Korfanta, N. M. Using demography to guide reserve design for understory bird conservation in a fragmented tropical forest. Paper accepted, unable to attend. The Wildlife Society Annual Meeting, Hilo, Hawaii (2011)

- Miller, S. N., H. R. Griscom, T. Gyedu-Ababio, N. M. Korfanta, and W. A. Shivoga. A multidisciplinary research and outreach framework for the sustainable management of watersheds. Abstract and oral presentation at The 3rd KNP Science Networking Meeting. Skukuza, Mpumalanga, South Africa (2005)
- Korfanta, N. M., S. N. Miller, and H. Bergman. Beyond the fence: linking on- and off-park land uses with biodiversity conservation in Kruger National Park. Abstract and oral presentation at The 3rd KNP Science Networking Meeting. Skukuza, Mpumalanga, South Africa (2005)
- Korfanta, N. M. Society for Conservation Biology Annual Meeting. Population genetics of burrowing owls (*Athene cunicularia*): What microsatellite DNA markers reveal about demographic characteristics. Hilo, Hawaii (2001)
- Korfanta, N. M. Society for Conservation Biology Annual Meeting. Burrowing owl (*Athene cunicularia*) and boreal owl (*Aegolius funereus*) population genetics: Cross-specific amplification of microsatellite DNA. Missoula, Montana (2000)
- Korfanta, N. M. Raptor Research Foundation Annual Meeting. “A preliminary assessment of burrowing owl status in Wyoming.” Ogden, Utah (1998)

INVITED PRESENTATIONS

- UW Sage Grouse Reclamation Workshop. “What fertilization of western rangelands means for Sage Grouse.” Casper, WY (2015)
- Petroleum Association of Wyoming. “Energy development mitigation initiative.” Casper, WY (2015)
- Wyoming Landscape Conservation Initiative Executive Committee. “Collaborative opportunities with the Haub School and the Energy Mitigation Initiative.” Cheyenne, WY (2014)
- Rocky Mountain Power Blue Sky Conference. “The Bim Kendall House as a case study in solar power generation.” Laramie, WY (2013)
- BLM Resource Advisory Council. Introduction to the Energy Development Mitigation Research and Outreach Initiative. Laramie, WY (2013)
- Cheyenne Audubon Society. Travels in East Africa: Ndege, Pikipiki, and Gari. Cheyenne, WY (2008)
- Student Affairs Administrators in Higher Education annual conference. 2006. “Sustainability at 7200.” Breckenridge, CO (2006)
- Council of Environmental Deans and Directors. “Connecting campuses with decision-makers: assembling an advisory board.” Warrenton, Virginia (2002)
- Institute of Environment and Natural Resources: Student –Faculty Forum on Environment and Natural Resources. “Population genetics of the burrowing owl: Implications for conservation and management.” Laramie, WY (2000)
- Laramie Audubon Society. “Burrowing owl (*Athene cunicularia*): Priest of the prairie dog.” Laramie, WY (1999)
- Wildlife Society Student Chapter. “Population genetics and natural history of the burrowing owl.” Laramie, WY (1999)
- Cheyenne Audubon Society. “Burrowing owl (*Athene cunicularia*): Priest of the prairie dog.” Cheyenne, WY (1999)

UNIVERSITY GUEST LECTURES

- Marketing 4600 - Campus Sustainability. “The LEED process and green building in Wyoming” (2014, 2015)
- Environment and Natural Resources 1300 - Foundations of Sustainability. “Green building design.” (2014, 2015)
- Environment and Natural Resources 1200 - Environment. “From theory to practice: Implementing sustainability.” (2014, 2015)
- Marketing 4600 - Campus Sustainability, UW. “The LEED process and green building in Wyoming” (2013, 2014, 2015)
- American Studies/Civil Engineering 4800/5800 – Historic Preservation, UW. Sustainability and the Built Environment. “Sustainable building through historic preservation” (2013)
- Zoology and Physiology 5890 - Graduate Seminar, UW. “Professional skills for biology professionals” (2012)
- Zoology and Physiology 5890 – Quantitative Conservation Biology, UW. “Demography and population persistence: lessons from the tropics” (2011)

CONFERENCES AND FORUMS HOSTED AND ORGANIZED

- Sustaining Big Game Migrations in the West, a Ruckelshaus Institute Emerging Issues Forum. Co-sponsored a well-attended forum on the science and policy of ungulate migrations, featuring state and federal agency leaders, NGO’s, landowners, industry, and other stakeholders. Led agenda formulation, fundraising, and conference moderation. Oversaw meeting logistics and assessment (2015)
- Second UW Sustainability Summit, Laramie, WY. Green building conference and progressive dinner. Moderator and event planning/execution (2013)
- Conservation Finance Forum, Casper, WY (jointly with The Nature Conservancy – Wyoming and the Wyoming Stockgrowers’ Association). Event planning, convening, and fundraising (2013)
- First UW Sustainability Summit, Laramie, WY. Event convening, planning, and fundraising (2009)
- Wyoming Landscape Conservation Initiative Science Workshop. Facilitation services (2011)
- Research Needs and Management Strategies for Pallid Sturgeon Recovery. Facilitation services (2007)
- Brucellosis in the Greater Yellowstone Area Workshop. Facilitation services (2005)
- Haub School of Environment and Natural Resources Board of Directors meetings, event planning and organization (twice annually, 2001-present)

BOARDS AND COMMITTEES

- U.S. Green Building Council – Wyoming. Board member (2014 – present). Secretary (2015 – present)
- Haub School of Environment and Natural Resources Tenure and Promotion Committee, University of Wyoming. Committee member (2015-present)

- Biodiversity Institute Faculty Advisory Committee, University of Wyoming. Committee member (2013 – 2014)
- Haub School of Environment and Natural Resources Faculty Advisory Committee, ex officio, University of Wyoming. Committee member (2010 – 2015)
- Campus Sustainability Committee, University of Wyoming. Appointed by President Buchanan.
 - Co-chair (2013 – present)
 - Conservation and Efficiency Revolving Fund Subcommittee member (2014-present)
 - Committee member (2006 – 2013)
- Wyoming Agriculture and Natural Resources Mediation Program. Board member, appointed by Governor Freudenthal (2006 – 2009)
- Wyoming Audubon. Board member (2007 – 2009)

UNIVERSITY OF WYOMING SERVICE ACTIVITIES

- Tenure and Promotion review committee. Haub School of Environment and Natural Resources (2014 – present)
- Search committee member. Haub School Assistant Professor of Natural Resource Science position (2014 – 2015)
- Search committee member. Haub School Assistant Accountant position (2015)
- Search committee member. Haub School Assistant Event Planner position (2015)
- Search committee chair. Ruckelshaus Institute Assistant Research Scientist position (2014)
- Search committee member. Knobloch Wyoming Excellence Chair in Conservation Economics and Finance (2014)
- Search committee chair. Biodiversity Institute Education/Outreach position (2013)
- School of Energy Resources director review. Committee member for director's performance review. Interviewed campus and off-campus stakeholders and contributed to a final report (2013)
- Search committee member. Knobloch Chair in Conservation Finance (2013)
- Faculty co-advisor. Students for a Sustainable Environment (2002-2009)
- Search committee chair. Spicer Chair in the Environment and Natural Resources program (2008)
- Search committee member. College of Law natural resources position (2008)
- Search committee member. Environment and Natural Resources director search (2008)
- Search committee member. Botany and Renewable Resources Departments faculty search (2005)

GRANTS AND FUNDRAISING

Obtained funding for renovation and building of the Bim Kendall House, the office and teaching spaces for the University of Wyoming Environment and Natural Resources program:

- Private donation - \$765,000 (plus \$765,000 matched by a Wyoming Legislature facilities matching grant program) – for purchase of the Hitchcock House and to build an addition (with assistance from UW Foundation; 2006)

- Private donations (24 individual gifts) - \$30,225 for the Bergman Gardens (with assistance from John Turner, Chairman of the Ruckelshaus Institute; 2008)
- Rocky Mountain Power Blue Skies Grant, for purchase of photovoltaic panels - \$30,000 (plus \$30,000 match from Wyoming State Legislature matching grant program; 2008)
- The Kresge Foundation, Green Building Planning Grant - \$65,000 (plus \$65,000 match from Wyoming State Legislature facilities matching grant program; 2008)

Research:

- Natural resource condition assessments for four National Park Service units - Fort Laramie National Historic Site, Agate Fossil Beds National Monument, Scotts Bluff National Monument, and Badlands National Park. PI's: Nicole Korfanta and Gary Beauvais. Assessment - \$250,000 (2014)
- Graduate Student Recruitment Grant, University of Wyoming. Funding to support creative recruitment of graduate students - \$2,000 (2007)
- Dick and Lynne Cheney Study Abroad Grant, University of Wyoming - \$1,300 (2007)
- Scott-Walters Study Abroad Scholarship, Department of Zoology and Physiology, University of Wyoming - \$200 (2007)
- Institute of Environment and Natural Resources Environmental Issues Grant, University of Wyoming (with Dr.'s Dave McDonald and Gary Beauvais) - \$14,448 (2000)
- J.P. Ellbogen Outstanding Graduate Student Teacher Award, University of Wyoming - \$1,500 (2000)
- Sigma Xi, Grant in Aid of Research - \$1,000 (1999)
- Arts and Sciences Summer Independent Study Award, University of Wyoming - \$1,800 (1999)
- L. Floyd Clark Summer Research Award, University of Wyoming - \$1,500 (1998)
- Stephen R. Tully Memorial Award, Raptor Research Foundation - \$500 (1998)

Outreach:

- Sage grouse conservation outreach and education. Medicine Bow Conservation District. Public outreach and education on creating and using fence markers for sage grouse conservation - \$3,598 (2014)
- Argosy Family Foundation, funding for Community Sustainability Symposium - \$10,000 (2008)
- Argosy Family Foundation, funding for a distinguished speakers series - \$20,000 (2005)

REVIEWER

- Peer reviewer – Ecosphere, Wilson Journal of Ornithology, Wildlife Research, Biological Conservation
- Book reviewer – Conservation/management book chapter of *Mammals of Wyoming* by Steve Buskirk (2013)
- Competitive Research Awards, reviewer – College of Agriculture and Natural Resources Experimental Station (2012)

IN THE NEWS

- “Solar panels at UW should cut 50 tons of carbon dioxide a year,” Casper-Star Tribune, Nov. 22, 2015.
- “Survey: Wyomingites strongly in favor of conservation.” Cheyenne Tribune Eagle, Oct. 29, 2014.
- “[UW Sustainability Committee convenes forum on glass recycling.](#)” Laramie Boomerang, Nov. 21, 2013.
- “[UW program seeks to minimize effect of development on wildlife.](#)” Laramie Boomerang, Dec. 13, 2013.
- Channel 5 (Cheyenne, WY) Evening News. Interview regarding the Bim Kendall House and sustainability, Aug. 2010.

AWARDS AND CERTIFICATIONS

- Certified Copyeditor—UC San Diego Extension (2016)
- Certified Mediator—Wyoming Agriculture and Natural Resources Mediation Program (2005 – 2007)
- John P. Ellbogen Outstanding Graduate Assistant Award, University of Wyoming. University-wide graduate teaching and research award (2000)