

CURRICULUM VITAE

R. TERRY BOWYER

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Personal Information

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Wife: Karolyn (Registered Nurse)

Children: Bryan
Jeffrey

Personal Interests: Hunting upland game birds and waterfowl with my black Labrador retrievers (Pepper and Otis), fishing, backpacking, nature photography, reading mystery and science fiction novels.

Professional Interests and Goals

To study the ecology, behavior, evolution, and conservation biology of large mammals. To contribute, through research and publications, to the better understanding and conservation of these unique animals and the environments they inhabit, and to impart that knowledge to students through teaching in ecology, wildlife, and conservation biology. To facilitate creativity and enhance achievement among faculty by administration for science rather than of science.

Education

Ph.D. (1985) The University of Michigan, Natural Resources.
M.S. (1976) Humboldt State University, Wildlife Management.
B.S. (1970) Humboldt State University, Wildlife Management (Biology Minor).

Awards and Honors

Extramural

- 2009 **Elected Professional Member**, Boone and Crockett Club
- 2007 **Killam Endowed Lecture in White-tailed Deer Management** from the Caesar Kleberg Wildlife Research Institute, Texas A&M University-Kingsville.
- 2004 **Outstanding Publication Award** in Wildlife Ecology and Management (Monograph Category) from The Wildlife Society.
- 2004 **Elected Fellow**, The Wildlife Society, in Recognition of Exceptional Service to the Wildlife Profession.

- 2003 **Outstanding Publication Award** in Wildlife Ecology and Management (Article Category) from The Wildlife Society.
- 2003 **C. Hart Merriam Award** for Outstanding Research Contributions to the Science of Mammalogy, from the American Society of Mammalogists.
- 2002 **Elected Fellow**, The Arctic Institute of North America, in Recognition of Significant Contributions to the Knowledge of the Polar and Sub-polar Regions.
- 2001 **Distinguished Moose Biologist Award** for Outstanding Contribution to the Field of Moose Management, North American Moose Conference and Workshop.
- 2000 **Elected Fellow (Biological Sciences)**, American Association for the Advancement of Science, for Distinguished Research into the Relation of Habitat to the Social Behavior, Sexual Segregation, and Population Biology of Large Mammals, and for Related Ecological Teaching.
- 2000 **The Arthur S. Einarsen Award** for Outstanding Service to the Wildlife Profession and Dedication to Wildlife Resources, from the Northwest Section of The Wildlife Society.
- 1998 **Outstanding Publication Award** in Wildlife Ecology and Management (Monograph Category) from The Wildlife Society.
- 1990 **Certificate of Appreciation** for Dedicated Service as Associate Editor of *the Wildlife Society Bulletin* from The Wildlife Society.
- 1987 **Award from the Fairbanks Convention and Visitors Bureau** for Fostering Development of the Tourism Industry by Arranging to Host the 69th Annual Meeting of the American Society of Mammalogists at the University of Alaska Fairbanks.

Intramural

- 2009 **Outstanding Researcher**, Idaho State University.
- 2002 **Outstanding Graduate Student Mentor and Advisor Award**, College of Science, Engineering and Mathematics, University of Alaska Fairbanks.
- 2001 **Award of Merit** for Extraordinary Research Productivity in Wildlife Biology, College of Science, Engineering and Mathematics, University of Alaska Fairbanks (\$5,000 award).
- 1998 **The Emile Usibelli Award** for the Outstanding Researcher (all disciplines) at the University of Alaska Fairbanks (\$10,000 prize).
- 1995 **Outstanding Faculty Advisor Award** (campus-wide award from undergraduate students), University of Alaska Fairbanks.
- 1990 **Award of Merit** for Outstanding Teaching, Research, and Service in the College of Natural Sciences, University of Alaska Fairbanks.
- 1980 **Howard M. Wight Memorial Prize** for the Outstanding Wildlife Graduate Student, School of Natural Resources, The University of Michigan.
- 1979 **Horace H. Rackham Predoctoral Fellowship**, The University of Michigan.

Professional Experience and Employment

Chair, Professor, and Member of The Graduate Faculty

Department of Biological Sciences, Idaho State University (2004-Present)

Professor Emeritus

Department of Biology and Wildlife, and Institute of Arctic Biology, University of Alaska Fairbanks (honor conferred 2004)

Professor of Wildlife Ecology

Department of Biology and Wildlife, and Institute of Arctic Biology, University of Alaska Fairbanks (Promoted 1994)

Associate Professor of Wildlife Ecology

Department of Biology and Wildlife, and Institute of Arctic Biology, University of Alaska Fairbanks (Promoted 1988, Tenured 1990)

Assistant Professor of Wildlife Ecology

Department of Biology and Wildlife, and Institute of Arctic Biology, University of Alaska Fairbanks (1986-1988)

Assistant Professor of Wildlife Science

Center of Environmental Sciences, Unity College in Maine (1980-1986)

Visiting Assistant Professor of Biology

Mountain Lake Biological Station, University of Virginia (Summer 1985)

Instructor

Wayne State University (Extension course at Detroit Zoo, 1980)

California State Park Ranger (P.I.)

Point Mugu State Park and Leo Carrillo State Beach (1968-1970); Prairie Creek Redwoods State Park (1973-1974)

X-ray Technician

U.S. Army (1971-1972—Honorable Discharge)

Adjunct Appointment

Adjunct Professor, Department of Wildlife and Fisheries Sciences, South Dakota State University (2003-Present)

Administrative Experience

Chair, Department of Biological Sciences, Idaho State University (2004-Present)

Associate Director (formerly Deputy Director), Institute of Arctic Biology, University of Alaska Fairbanks (2003-2004)

Deputy Director, Institute of Arctic Biology, University of Alaska Fairbanks (1998-1999)

Head, Department of Biology and Wildlife, University of Alaska Fairbanks (1995-1996)

Coordinator, Graduate Program, Department of Biology and Wildlife, University of Alaska Fairbanks (1995-1996)

Chair, Wildlife Program, Department of Biology and Wildlife, University of Alaska Fairbanks (1990, 1993-1994)

Faculty Coordinator, Cooperative Education, Unity College in Maine (1982-1986)

Director, Wildlife Program, Center of Environmental Sciences, Unity College in Maine (1980-1986)

Courses Taught and Other Instructional Accomplishments

Idaho State University

Graduate Courses

Dynamics and Conservation of Exploited Populations (2006)
Vertebrate Population Dynamics (2007)
Ethics and Philosophy of Hunting and Fishing (2007)
Scientific Writing, Editing, and Reviewing (2008, 2009)
Harvesting Animal Populations: Implication for Theory and Management (2008)

Guest Lectures (U = Undergraduate, G = Graduate)

Population and Community Ecology (U/G)
Conservation of Natural Resources (U)
Concepts in Biology: Human Concerns (U)
Landscape Ecology (G)

University of Alaska Fairbanks

Undergraduate Courses (* = Upper-division Course)

Wildlife Techniques* (1986-1995, 1997-2004)
Wildlife Populations and their Management* (1986-1995, 2003)
Population Ecology* (1988)
Wildlife Management Principles (1999-2003)

Graduate Courses

Scientific Writing, Editing, and Reviewing (2002)
Vertebrate Population Dynamics (1987-2004)
Wildlife Field Trip (1986-1987)
Wildlife Seminars—Conservation Biology, Behavioral Ecology, Population Ecology (1986-1990, 1995-1997, 2002)

Other Formal Teaching

Basic Wildlife Biology, and Wildlife Habitat Evaluation. Water Resources Technician Training Program for Native Americans. School of Mineral Engineering, University of Alaska Fairbanks, Fairbanks, AK (2002, 2003)

Writing Research Articles. University Survival Skills & Ethics Workshop, Alaskan Basic Neuroscience Program, University of Alaska Fairbanks (2002)

Guest Lectures (U = Undergraduate, G = Graduate)

Animal Behavior (U)	Advanced Animal Behavior (G)
Grazing Ecology (G)	Data Analysis in Biology (G)
Population Ecology (U)	Marine Science (G)
Statistics Seminar (G)	Biology of the Vertebrates (U)
Survey of Wildlife Science (U)	Natural Resources Conservation (U)
Research Design (G)	Native Students Marine Science
Natural History of Alaska (U)	Internship Program (U)
Evolution (U)	Reproductive Biology (U)
Wildlife Management Principles (U)	Fundamentals of Biology (U)

Advised 15-20 Undergraduates/year

Mountain Lake Biological Station, University of Virginia: Graduate Course

Wildlife Ecology/Mammalogy (Summer 1985)

Unity College in Maine: Undergraduate Courses (* = Upper-division Course)

Elements of Ecology (1980-1983)
Ornithology*(1983)
Population Ecology* (1980-1986)
Game Birds and Mammals (1980-1986)
Wildlife Techniques* (1980-1986)
Wildlife Science* (1980-1986)
Scientific Investigation (1984-1986)
Orientation to the Environmental Sciences (1984-1986)
Seminars in Behavioral Ecology* (1984-1986)

POST-DOCTORAL ASSOCIATES AND GRADUATE STUDENTS

Post-Doctoral Associates

Idaho State University

2005-2007

- 3) Dr. Kelley M. Stewart—Competition between mule deer and North American elk.
Current position: Assistant Professor of Wildlife Ecology, University of Nevada, Reno.

University of Alaska Fairbanks

1997-2004

- 2) Dr. Julie A.K. Maier—GIS modeling of birth-site selection in moose; determining timing of green up in taiga shrubs from remotely sensed data; assessing effects of fire on population density of moose. *Additional position:* Former Member, Alaska Board of Game; *Current position:* Assistant Professor, Interior-Aleutians Campus, University of Alaska Fairbanks.

1996-1997

- 1) Dr. Merav Ben-David—Trophic ecology of river otters. *Current position:* Associate Professor, Department of Zoology and Physiology, University of Wyoming, Laramie, WY.

Graduates, Chair of Committee (Idaho State University)

2008

- 25) Jericho C. Whiting (**Ph.D.**) Behavior and ecology of reintroduced Rocky Mountain bighorn sheep. *Current position:* Wildlife Biologist, Stoller, Inc., Idaho National Laboratory, Idaho Falls, ID.

2007

- 24) Cody A. Schroeder (**M.S.**) Sexual segregation and foraging ecology of Sierra Nevada bighorn sheep during winter. (Co-chair with Dr. Bleich). *Current position:* Ph.D. Student, University of Nevada, Reno.

Graduates, Chair of Committee (University of Alaska Fairbanks)

2007

- 23) Jennifer I. Schmidt (**Ph.D.**) **Social** and ecological influences on the population dynamics and genetics of moose (*Alces alces gigas*) in Alaska. (Co-chair with Dr. McCracken). *Current position:* Postdoctoral Associate, Institute of Arctic Biology, University of Alaska
- 22) Susan Oehlers (**M.S.**) **Habitat** selection and sightability of moose in southeast Alaska. (Co-chair with Dr. Huettmann) *Current position:* Wildlife Biologist, U.S. Forest Service, Yakutat, AK.

2004

- 21) Kelley M. Stewart (**Ph.D.**) Life-history patterns of North American elk: effects of population density on resource partitioning, reproduction, and plant productivity. (Co-chair, Dr. Kie). Postdoctoral Associate, Department of Biological Sciences, Idaho State University. *Current position:* Assistant Professor of Wildlife Ecology, University of Nevada, Reno.

2002

- 20) Douglas F. Spaeth (**M.S.**) Sexual segregation in moose: effects of incisor morphology, quality of willows, and foraging behavior. *Current position:* Wildlife Biologist, U.S. Forest Service, Jackson, WY.
- 19) Kris J. Hundertmark (**Ph.D.**) Phylogeography of moose (*Alces alces*): genetic signatures of population history. (Co-chair with Dr. Shields) Wildlife Biologist III, Alaska Department of Fish and Game, Soldotna, AK, Retired. *Current position:* Assistant Professor of Wildlife Biology, Department of Biology and Wildlife, and Institute of Arctic Biology, University of Alaska Fairbanks, Fairbanks, AK.

2001

- 18) David K. Person (**Ph.D.**) Alexander Archipelago wolves: ecology and population viability in a disturbed, insular landscape. *Current position:* Wildlife Biologist III, Alaska Department of Fish and Game, Ketchikan, AK.
- 17) Gail M. Blundell (**Ph.D.**) Social organization and spatial relationships in coastal river otters: assessing form and function of social groups, sex-biased dispersal, and gene flow. *Current position:* Leader (Wildlife Biologist III), Harbor Seal Project, Alaska Department of Fish and Game, Juneau, AK.

1999

- 16) David M. Albert (**M.S.**) Grizzly bear-human interactions: effects of human activities and habitat selection by bears. *Current position:* GIS analyst, The Nature Conservancy, Juneau, AK
- 15) Chris L. Whittle (**M.S.**) Putative pheromones in the urine of male moose: evolution of honest advertisement? **Ph.D.** Department of Chemistry and Biochemistry, University of Alaska Fairbanks, Fairbanks, AK. *Current position:* Postdoctoral Associate, Monell Chemical Senses Center, Philadelphia, PA
- 14) Michael W. Oehler, Sr. (**M.S.**) Ecology of mountain sheep: effects of mining and precipitation. (Co-Chair with Dr. Bleich). *Current position:* Wildlife Biologist, Theodore Roosevelt National Park, Medora, ND
- 13) Becky M. Pierce (**Ph.D.**) Predator-prey dynamics between mountain lions and mule deer: effects on distribution, population regulation, habitat selection and prey selection. (Co-Chair with Dr. Bleich). *Current position:* Wildlife Biologist, California Department of Fish and Game, Bishop, CA
- 12) Mark A. Keech, (**M.S.**) Life-history consequences of maternal condition in Alaskan moose. *Current position:* Wildlife Biologist III, Alaska Department of Fish and Game, Fairbanks, AK.

1998

- 11) Patricia C.E. Reynolds, (**Ph.D.**) Dispersal and population ecology of muskoxen in northeastern Alaska. (Co-Chair with Dr. Klein). *Current position:* Wildlife Biologist, U.S. Fish and Wildlife Service, Fairbanks, AK
- 10) Neil L. Barten, (**M.S.**) Habitat use by parturient and nonparturient caribou of the Mentasta caribou herd. *Current position:* Wildlife Biologist IV, Alaska Department of Fish and Game, Douglas, AK

1997

- 9) Elizabeth A. Lenart, (**M.S.**) Climate and caribou: effects of summer weather on the Chisana caribou herd (Co-chair with Dr. Ruess). *Current position:* Wildlife Biologist II, Alaska Department of Fish and Game, Fairbanks, AK
- 8) Alexander K. Prichard, (**M.S.**) Evaluation of pigeon guillemots as bioindicators of nearshore ecosystem health (Co-Chair with Dr. Roby). *Current position:* Wildlife Biologist, ABR, Inc., Fairbanks, AK

1995

- 7) Matthew C. Nicholson, (**Ph.D.**) Habitat selection by mule deer: effects of migration and population density. *Current position:* Landscape Ecologist, Environmental Protection Agency, Mid-Atlantic Region, Philadelphia, PA
- 6) Bruce W. Dale, (**M.S.**) Winter wolf predation in a multiple ungulate prey system. *Current position:* Wildlife Biologist III, Alaska Department of Fish and Game, Palmer, AK
- 5) Julia Stahmann Bevins, (**Ph.D.**) Detection and control of brucellosis in reindeer vaccinated with *Brucella suis* biovar 3 (Co-Chair with Dr. Dieterich). *Current position:* Research Associate, Institute of Arctic Biology, University of Alaska Fairbanks, Fairbanks, AK
- 4) Vernon C. Bleich, (**Ph.D.**) Sexual segregation in desert-dwelling mountain sheep. *Current position:* Senior Wildlife Biologist, California Department of Fish and Game, Retired, Bishop, CA

1992

- 3) Dave A. Weixelman, (**M.S.**) Food quality, abundance, and diet selection by Alaskan moose during winter. *Current position:* Botanist, U.S. Forest Service, Tahoe National Forest, Nevada City, CA.
- 2) Erik M. Molvar, (**M.S.**) Risky foraging by Alaskan moose and its effects on ecosystem processes. *Current position:* CEO, Biodiversity Conservation Alliance, Laramie, WY, and free-lance nature writer (16 books published)

1991

- 1) Janet L. Rachlow, (**M.S.**) Maternal investment and habitat selection by Dall's sheep. **Ph.D.**, University of Nevada, Reno, NV. *Current position:* Associate Professor of Wildlife, University of Idaho, Moscow, ID.

Current Graduate Students, Chair of Committee

Idaho State University

- 4) Patrick E. Lendrum **M.S.** Habitat selection and survival of migrating mule deer (M.S. expected May 2012)
- 3) R. Long **Ph.D.** Fitness consequences of movements in North American Elk (Ph.D. expected 2012) (Co-chair with J.G. Kie)
- 2) K.L. Monteith **Ph.D.** Compensatory versus additive mortality in young mule deer (Ph.D. expected May 2011) (Co-chair with V.C. Bleich)
- 1) J. Villepique **Ph.D.** Effects of predation risk on behavior and habitat selection by mountain sheep (Ph.D. expected May 2010)

PUBLICATIONS