

John M. Marzluff

Personal Information:

Address:
19426 75th Ave. SE
Snohomish, WA 98296
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Born: September 26, 1958
Married, 2 children

Degree Held:

B.S. Wildlife Biology
M.S. Biology
Ph.D. Zoology

Date Received:

1980
1983
1987

Granting Institution:

University of Montana
Northern Arizona University
Northern Arizona University

1. Teaching

Academic Experience:

Teaching Assistant at Northern Arizona University (1980-1981)
Instructor (Half-time Faculty) at Northern Arizona University
(Spring and Summer 1986-1988)
Adjunct Assistant Professor, Boise State University (1991-1997)
Assistant Professor, University of Washington (1997-2000)
Associate Professor, University of Washington (2000-2003)
Professor, University of Washington (2003-present)

Classes Developed and Taught:

Fundamentals of Ecology (lecture and lab) (1986, 1987, 1988)
General Zoology (1986)
Man and His Ecosystem (1986)
Workshop on Environmental Problems (lecture and lab) (1987,1988)
Animal Behavior (1987)
General Ecology (lecture and lab) (1988)
Field Ecology (1993, annually)
Conservation Biology (1995)
Wildlife Science (1998, annually)
Quantitative Assessment of Wildlife Populations (1998)
Management of Endangered and Threatened Species (1999, annually)
Urban Ecology (4 course sequence, 2000 annually)
Graduate Seminars (avian conservation, population regulation, radio-telemetry, biodiversity, dispersal)

Detailed course syllabi, lecture notes, and readings can be viewed at

<http://courses.washington.edu/vseminar/>.

Graduate Students (graduation date):

Mary McFadzen	M.Sc. Post-fledging survival of Prairie Falcons. (<i>Co-advised with Jim Gessaman at Utah State University</i>) (1995)
Katharine Whitmore	M.Sc. Captive-rearing altricial birds. (BSU) (1996)
Lauren Gilson	M.Sc. Post-fledging strategies of Osprey. (BSU) (1996)
Laura Valutis	M.Sc. Reintroduction of social birds. (BSU) (1996)
Sean Finn	M.Sc. Relationship of forest management to Goshawk behavior and demography (BSU) (2001)
Jeff Bradley	M.Sc. Small mammals as nest predators (UW) (1999)
Roarke Donnelly	Ph. D. Conservation value of urban forest fragments (UW) (2002)
Shelley Hall	M.Sc. Murrelet distributions in Olympic National Park (UW) (1999)
John Klavitter	M.Sc. Status of Io (Hawaiian Hawks) (UW) (1999)
John Withey	M.Sc. & Ph. D. Urban crow population ecology (UW) (MSc; 2002; Ph.D 2006)
Tom Bloxton	M.Sc. Foraging ecology of northern goshawks (UW) (2002)
Anthony Viggiano	M.Sc. Demography of Black-footed Albatross (UW) (2001)
Erik Neatherlin	M.Sc. Human influences on wildland crows (UW) (2002)
Cara Ianni	M.Sc (teaching) (UW; 2004)
Kara Whittaker	Ph.D. Songbird dispersal in an urban area (UW; 2007)
Tina Rohila	M.Sc. Snags and cavity nesting birds in an urbanizing area (UW) (2002)
Stacey Vigallon	M.Sc. How do Steller's Jays find nests (UW) (2003)
Dave Oleyar	Ph.D. Urban Ecology (UW; 2012)
Scott Horton	Ph.D. Marbled Murrelet habitat modeling (UW; 2009)
Scott Gremel	M.Sc. Spotted owl – Barred owl interactions (UW; 2003)
William Webb	Ph.D. Ravens ecology on the Olympic Peninsula (UW; 2010)
Stan Rullman	Ph.D. Raptors in urban environments (UW; 2012)
Thomas Unfried	Ph.D. Genetic aspects of dispersal (UW; 2010)
Jon Drake	Ph.D. Endangered species issues (UW; 2008)
Vivian Bui	M.Sc. Raven interactions with Sage Grouse (UW; 2009)
Heather Cornell	M.Sc. Recognition of people by crows (UW; 2009)
Laura Farwell	M.Sc. Interactions between wrens in urban areas (UW; 2011)
Lauren (Seckel) Walker	M.Sc. & Ph.D. Corvids and recreation in Mt. Rainier National Park (UW; 2011), Metapopulation dynamics in Black-capped Vireos (UW; 2015).
Jorge Tomasevic	Ph.D. Pileated Woodpeckers in urban areas (UW; ongoing)
Ben Shryock	M.Sc. Primary productivity and birds in urban area (UW; 2014)
Jack DeLap	Ph.D. Assembly of urban bird communities (UW; ongoing)
Kaeli Swift	Ph.D. American crow funerals (UW; ongoing)
Loma Pendergraft	Ph.D. Neuroecology of learning in crows (UW; ongoing)
Amber Mount	M.Sc. Pileated woodpeckers in timber lands (UW; ongoing)
Carol Begozi	Ph.D. Coexisting with large carnivores (UW; ongoing)
Lief Hansen	M.Sc. Golden eagles in timber lands (UW; ongoing)
Michael Heimbuch	M.Sc. White-eyed vireo population ecology (UW; ongoing)

Post Doctoral Associates:

Marco Restani (1997-2000) now Professor at St. Cloud State University
Matthias Leu (2000-2002) now Assistant Professor at William and Mary College
Jeffrey Hepinstall (2002-2005) now Associate Professor at University of Georgia
Robert Reineke (2002- 2004) deceased
Barbara Clucas (2008-2011) now Lecturer at Humboldt State University

2. Research

Research Experience:

Biological Aide, U.S.D.A. Forest Service (summer 1979)
Biological Aide, U.S.D.I. Fish and Wildlife Service (part-time 1979-1980)
Research Assistant at Northern Arizona University (1981-1985)
A.R.C.S. Fellow, Northern Arizona University (1986-1987)
Postdoctoral Fellow, University of Vermont (1988-1991)
Principal Investigator, Greenfalk Consultants (1991-1992)
Director of Research, Greenfalk Consultants (1992-1993)
Director, Conservation Research Foundation (1994-1995)
Senior Scientist, Sustainable Ecosystems Institute (1995-2009)

Books Published:

Marzluff, J. M. and R. P. Balda. 1992. *The Pinyon Jay: behavioural ecology of a cooperative, colonial corvid*. T. & A. D. Poyser., London. 317 pp.

Marzluff, J. M. and R. Sallabanks. (eds.) 1998. *Avian Conservation-research and management*. Island Press. 563 pp.

Millsbaugh, J. and J. M. Marzluff. (eds.) 2001. *Radio Tracking and Animal Populations*. Academic Press.

Marzluff, J. M., R. Bowman, and R. Donnelly. (eds). 2001 *Avian Conservation and Ecology in an Urbanizing World*. Kluwer Academic Publishers.

Marzluff, J. M. and T. Angell. 2005. *In the Company of Crows and Ravens*. Yale University Press.

Marzluff, J.M., E. Shulenberger, W. Endlicher, M. Alberti, G. Bradley, C. Ryan, U. Simon, and C. ZumBrunnen. (Eds.). 2008. *Urban Ecology: an international perspective on the interaction between humans and nature*. Springer, New York. 807 pp.

Marzluff, J. M. and C. Marzluff. 2011. *Dog Days, Raven Nights*. Yale University Press.

Endlicher, W., Hostert, P., Kowarik, I., Kulke, E., Lossau, J., Marzluff, J., van der Meer, E., Mieg, H., Nutzmann, G., Schulz, M., and Wessolek, G. (Eds.) 2011. *Perspectives in Urban Ecology: studies of ecosystems and interactions between humans and nature in the metropolis of Berlin*. Springer, Berlin.

Marzluff, J. M. and T. Angell. 2012. *The Gifts of the Crow: How perception, memory, and emotion enable smart birds to act like humans*. New York, Free Press.

Marzluff, J. M. 2014. *Welcome to Subirdia: sharing our neighborhoods with wrens, robins, woodpeckers, and other wildlife*. New Haven, Yale University Press.

Papers Published:

- Marzluff, J.M. and L. Jack Lyon. 1983. Snags as indicators of habitat suitability for open nesting birds. Pp: 140-146. In: Snag Habitat Management Symposium Proceedings. USFS GTR RM-99.
- Lyon, L. Jack and J.M. Marzluff. 1985. Fire's effects on a small bird population. pp 16-22. In: Fire effects on Wildlife Habitat. USFS GTR INT-186.
- Marzluff, J. M. 1985. Behavior at a pinyon jay nest in response to predation. *Condor* 87:559-561.
- Marzluff, J. M. 1986. Assumptions and design of regression experiments PP:165-170 In: *Wildlife 2000: Modeling habitat relationships of terrestrial vertebrates.* (Ed. by J. Verner, M. L. Morrison, and C. J. Ralph) Univ. of Wisconsin Press.
- Johnson, L.S., Marzluff, J. M., and R. P. Balda. 1987. Handling of pinyon pine seed by the Clark's Nutcracker. *Condor* 89:117-125.
- Marzluff, J. M. 1988. Do pinyon jays alter nest placement based on prior experience? *Animal Behaviour* 36:1-10
- Marzluff, J. M. 1988. Vocal mate recognition by free-ranging pinyon jays. *Animal Behaviour* 36:296-298.
- Marzluff, J. M. and R. P. Balda. 1988. Pairing patterns and fitness in free-ranging pinyon jays: What do they reveal about mate choice? *Condor* 90:201-213.
- Marzluff, J. M. and R. P. Balda. 1988. Resource and climatic variability: influences on sociality of two southwestern corvids. Pp 253-283. In: *The ecology of social behavior.* (Ed. by C. N. Slobodchikoff) Academic Press.
- Marzluff, J. M. and R. P. Balda. 1988. Advantages of, and constraints forcing, mate fidelity in a pinyon jay society. *Auk* 105:286-295.
- Dial, K. P. and J. M. Marzluff. 1988. Are the smallest organisms really the most diverse? *Ecology*. 69:1620-1624.
- Marzluff, J. M. and R. P. Balda. 1989. Pinyon Jays: Making the best of a bad situation by helping. Pp 199-238 In: *Cooperative breeding in birds: long term studies of ecology and behavior.* (Ed. by P. B. Stacey and W. D. Koenig) Cambridge University Press.
- Dial, K. P. and J. M. Marzluff, 1989. Nonrandomness of taxonomic diversity. *Systematic Zoology* 38:26-37.
- Marzluff, J. M. and R. P. Balda. 1989. Social, demographic, and evolutionary consequences of dispersal in a group-living bird, the pinyon jay. *Ecology* 70:316-328.
- Roth, S. D. and J. M. Marzluff. 1989. Nest placement and productivity of Ferruginous Hawks in western Kansas. *Transactions of the Kansas Academy of Science* 92:132-148.
- Johnson, K. and J. M. Marzluff. 1990. Avian mate choice: some problems and approaches. *Auk*. 107:296-304.
- Marzluff, J. M. and K. P. Dial. 1991. Life history correlates of taxonomic diversity. *Ecology* 72:428-439.
- Heinrich, B. and J. M. Marzluff. 1991. Do ravens yell because they want to attract others? *Behavioral Ecology and Sociobiology* 28:13-21.
- Marzluff, J. M. and K. P. Dial. 1991. Does social organization influence diversification? *American Midland Naturalist* 125:126-134.
- Marzluff, J. M. and B. Heinrich. 1991. Foraging of vagrant common ravens in the presence and absence of territorial adults: an experimental analysis of social foraging. *Animal*

- Behavior 42:755-770.
- Heinrich, B. and J. M. Marzluff. 1992. Age and mouth color in Common Ravens. *Condor* 94:549-550.
- Heinrich, B., J. M. Marzluff, and C.S. Marzluff. 1993. Ravens are attracted to the appeasement calls of discoverers when they are attacked at defended food. *Auk* 110: 247-254.
- Marzluff, J. M., Vekasy, M. and C. Coody. 1994. Is aerial radio telemetry accurate and representative of raptor movements? *Condor*. 96:447-454.
- Marzluff, J.M., Boone, R.B., and G.W. Cox. 1994. Historical changes in populations and perceptions of native pest bird species in the West. *Studies in Avian Biology*. 15:202-220.
- Parker, P. G., Waite, T.A., Heinrich, B. and J. M. Marzluff. 1994. Do common ravens share food bonanzas with kin? DNA fingerprinting evidence. *Animal Behaviour*.48:1085-1093.
- Heinrich, B. and J. M. Marzluff. 1995. Why ravens share. *American Scientist* 83:342-349.
- Fuller, M. R., Seegar, W. S., Marzluff, J. M. and B. A. Hoover.1995. Raptors, technological tools and conservation. *Trans. 60th No. Am. Wildl. & Natur. Resour. Conf.* 131-141.
- Schueck, L. S. and J. M. Marzluff. 1995. Influence of weather on conclusions about effects of human activities on raptors. *J. Wild. Manage.* 59:674-682.
- Heinrich, B., Marzluff, J. M. and W. Adams. 1995. Fear and food recognition in naive common ravens. *Auk* 112:499-503.
- Marzluff, J. M., Heinrich, B., and C. S. Marzluff. 1996. Communal roosts of common ravens are mobile information centers. *Animal Behaviour*. 51:89-103.
- Marzluff, J. M., Balda, R. P., Fitzpatrick, J. W. and G. E. Woolfenden. 1996. Breeding partnerships of two new world jays. Pages. 138-161. In: *Partnerships in birds: the ecology of Monogamy*. J. Black (ed.). Oxford University Press.
- Marzluff, J. M. and M. E. McFadzen. 1996. Do standardized brood counts accurately measure productivity? *Wilson Bull.* 108:151-153.
- McFadzen, M. E. and J. M. Marzluff. 1996. Mortality of Prairie Falcons during the post-fledging dependence period. *Condor*. 98:791-800.
- Vekasy, M. S., Marzluff, J. M., Kochert, M. N., Lehman, R. L., and K. S. Steenhof. 1996. Influence of radio transmitters on Prairie Falcons. *J. Field Ornithology*.67:680-690.
- McFadzen, M. E. and J. M. Marzluff. 1996. Behavior during the post-fledging dependence period in Prairie Falcons. *Bird Behavior* 11:81-90.
- Restani, M., Yates, R. E., and J. M. Marzluff. 1996. Capturing common ravens *Corvus corax* in Greenland. *Dansk. Orn. Foren. Tidsskr.* 90:153-158.
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- Raish, C., Yong, W., and J. M. Marzluff. 1997. Contemporary human use of Southwestern ponderosa pine forests. In: *Songbirds in southwestern ponderosa pine forests*. D. Finch, W. Block (eds.). pp. 28-42. RM-GTR-292. U.S.F.S., Ft Collins, CO.
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- Marzluff, J. M. 1997. Effects of urbanization and recreation on songbirds in southwestern ponderosa pine forests. In: *Songbirds in southwestern ponderosa pine forests*. D. Finch, W. Block (eds.). pp. 89-102. RM-GTR-292. U.S.F.S., Ft Collins, CO.
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- Marzluff, J. M., B. A. Kimsey, L. S. Schueck, M. E. McFadzen, M. S. Vekasy, and J. C. Bednarz. 1997. The influence of habitat, prey abundance, sex, and breeding success on the ranging habits of Prairie Falcons. *Condor* 99:567-584.
- Marzluff, J. M., S. T. Knick, M. S. Vekasy, L. S. Schueck, and T. J. Zarriello. 1997. Spatial use patterns and habitat selection of Golden Eagles in southwestern Idaho. *Auk* 114:673-687.
- Whitmore, K. D. and J. M. Marzluff. 1998. Hand-rearing corvids for reintroduction: importance of feeding regime, nestling growth, and dominance. *J. Wildlife Management*. 62:1460-1479.
- Valutis, L. L. and J. M. Marzluff. 1999. The appropriateness of puppet-rearing birds for reintroduction. *Conservation Biology* 13:584-591.
- Marzluff, J. M. and M. Restani. 1999. The effects of forest fragmentation on avian nest predation. Pp: 155-169. In: *Forest Fragmentation: Wildlife and Management Implications* (J. A. Rochelle, L. A. Lehmann, and J. Wisniewski eds.). Brill Academic Publishing, Leiden, The Neatherlands.
- Kochert, M. N., Steenhof, K, Carpenter, L. B., and J. M. Marzluff. 1999. Effects of fire on golden eagle territory occupancy and reproductive success. *J. Wildlife Management* 63:773-780.
- Gilson, L. N. and J. M. Marzluff. 2000. Facultative nest switching by juvenile Ospreys. *Auk* 117:260-264.
- Sallabanks, R. and J. M. Marzluff. 2000. Forest management and bird populations: an introduction. *Wildl. Soc. Bulletin*. 28:1086-1087.
- Marzluff, J. M., M. G. Raphael, and R. Sallabanks. 2000. Understanding the effects of forest management on avian species. *Wildl. Soc. Bulletin*. 28:1132-1143.
- Sallabanks, R., E. B. Arnett, and J. M. Marzluff. 2000. An evaluation of research on the effects of timber harvest on bird populations. *Wildl. Soc. Bulletin*. 28:1144-1155.
- Dubay, S. A., Bradley, J. A., Marzluff, J. M., and G. D. Hayward. 2000. The northern flying squirrel (*Glaucomys sabrinus*) as a potential predator of marbled murrelet (*Brachyramphus marmoratus*) eggs. *Northwest Science* 74:335-339.
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- Marzluff, J. M. and B. Heinrich. 2001. Raven roosts are still information centres. *Animal Behaviour* 61:F14-F15.
- Restani, M., J. M. Marzluff, and R. E. Yates. 2001. Effects of anthropogenic food sources on movements, survivorship, and sociality of common ravens in the Arctic. *Condor* 103:399-404.
- Marzluff, J. M., S. T. Knick. And J. J. Millspaugh. 2001. High-tech behavioral ecology: modeling the distribution of animal activities to better understand wildlife space use and resource selection. Pp. 309-326. In: Millspaugh and Marzluff (eds.) *Radiotelemetry and Animal Populations*. Academic Press.
- Millspaugh, JJ. And J. M. Marzluff. 2001. Wildlife radiotelemetry: a synthesis. Pp. 383-394. In:

- Millsbaugh and Marzluff (eds.) Radiotelemetry and Animal Populations. Academic Press.
- Withey, J. C., T. D. Bloxton, and J. M. Marzluff. 2001. Effects of tagging and location error in wildlife radiotelemetry studies. Pp. 43-63. In: Millsbaugh and Marzluff (eds.) Radiotelemetry and Animal Populations. Academic Press.
- Marzluff, J. M. and N. Hamel. 2001. Land use issues. Pp. 659-673. In: Encyclopedia of Biodiversity (S. A. Levin, ed.). Academic Press. San Diego, CA.
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- Lubinbuhl, J. M., Marzluff, J. M., Bradley, J. E., Raphael, M. G., and D. E. Varland. 2001. Corvid survey techniques and the relationship between corvid relative abundance and nest predation. *J. Field Ornithology* 72:556-572.
- Marzluff, J. M., and K. Ewing. 2001. Restoration of fragmented landscapes for the conservation of birds: A general framework and specific recommendations for urbanizing landscapes. *Restoration Ecology* 9:280-292.
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- Restani, M. and J. M. Marzluff. 2001. Avian conservation under the endangered species act: do expenditures match recovery priorities? *Conservation Biology* 15:1292-1299.
- Schueck, L. S., J. M. Marzluff, and K. Steenhof. 2001. Influences of military activities on raptor abundance and behavior. *Condor* 103:606-615.
- Marzluff, J. M., R. Bowman, and R. E. Donnelly. 2001. A historical perspective on urban bird research: trends, terms, and approaches. Pages 1-17. In: Marzluff, Bowman, and Donnelly Eds., *Avian conservation and ecology in an urbanizing world*, Kluwer, Norwell, MA.
- Marzluff, J. M. 2001. Worldwide urbanization and its affects on birds. Pages 19-47. In: Marzluff, Bowman, and Donnelly Eds., *Avian conservation and ecology in an urbanizing world*, Kluwer, Norwell, MA.
- Marzluff, J. M., K. J. McGowan, R. E. Donnelly, and R. L. Knight. 2001. Causes and consequences of expanding American Crow populations. Pages 331-363. In: Marzluff, Bowman, and Donnelly Eds., *Avian conservation and ecology in an urbanizing world*, Kluwer, Norwell, MA.
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- Neatherlin, E. A. and J. M. Marzluff. 2004. Campgrounds enable American crows to colonize remote native forests. *Journal of Wildlife Management* 68:708-718.
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- Vigallon, S. A. and J. M. Marzluff. 2005. Is nest predation by Steller's Jays incidental or the result of a specialized search strategy? *The Auk* 122:36-49.
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Awards and Board Appointments:

- H.R. Painton Award for the outstanding paper published in *THE CONDOR* during the past four years (1989)
- Elected Member of the American Ornithologists' Union (1993)
- Fellow of the American Ornithologists' Union (2005)
- Elected Councilor, American Ornithologists's Union (2001 – 2004)
- Board Member, Cooper Ornithological Society (2003-2005)
- Member of the National Academy of Sciences Committee charged with developing the Scientific Bases for the Conservation of the Mariana Crow (1996)
- Member (current chair) of the USFWS Recovery Team for the endangered Mariana Crow (1997-present)
- Chair, Student Participation Committee, Cooper Ornithological Society (2001)
- Editorial Board, *Bird Behavior* (1995-2000), *Acta Ornithologica* (2004-present), *Ecological Applications* (2005-present), *Landscape Ecology* (2007-2010).
- Past board member, Western Maine Audubon Society
- Chairman of the Student Awards Committee for the Cooper Ornithological Society (1994)
- Member of the U.S.F.W.S. Recovery Team for the endangered Hawaiian crow (1992 - 2001)
- Washington State Biodiversity Council (2002-2010)
- Recipient, Washington State Book Award, nonfiction (2005)

3. Service

Professional Contributions/Services:

- Delivered keynote addresses
(*2001 Canopy Processes Annual Meeting, Corvallis; 2003 Forest Recreation Workshop, Juneau; 2005 American Museum, New York; 2007 Brazilian Ornithological Society, Porto Alegre; 2011 International Society of Conservation Biology, Auckland*)
- External challenger for foreign PhD defenses (Norway, Canada, Australia, Germany)
- Invited committee member for national PhD (St. Louis University)
- Panel member of the Eastside Assessment Team charged with assessing how ecosystem management in the inland northwest may influence raptors (1995-1996)
- Participated in invited symposia and delivered departmental seminars:
(*Northern Arizona University (1985), University of Vermont (1988), University of Montana (1989,1990,1999)*),

University of Maine at Farmington (1989, 1990), New Mexico State University (1990), University of Maine at Orono (1990), Bates College (1990), SUNY Albany (1989), Boise State University (1992, 1994, 1995, 1996), Colorado State University (1993), University of Wisconsin, Stevens Point (1995), University of Washington (1997, 1999), University of Missouri (1999, 2011), Rocky Mountain College (2000), Montana State University (2000), University of British Columbia (2001), Oregon State University (2003), University of Montana (2004), Northern Arizona University (2005), Portland State University (2011), U. Mass (2011), Cornell University (2011), College of William and Mary (2011).

- Featured by media:
 - Featured in full-length film on ravens and crows, televised as episode of PBS series: *Nature* (2001; and 2011)
 - Front-page, feature articles on research in Seattle Times, High Country News
 - Featured in national magazines including: National Geographic and Audubon
 - Featured on National Public Radio's *All Things Considered*
 - Research reported on by San Jose Mercury News, Chicago Tribune, Everett Herald, Bay Nature, All Bird TV, Oregon Field Guide TV, Evening Magazine, KOMO and KING5 News
- Articles commissioned:
 - Restoration at the urban/rural interface (Institute for Restoration Ecology; Island Press)
 - Effects of recreation and settlement on songbirds (USFS)
 - Crows in Seattle (Arboretum Bulletin; Seattle Audubon)
 - New World Corvids (Handbook of Birds of the World, Lynx Edicions)
 - Land Use Issues (Encyclopedia of Biodiversity)
- Regularly review manuscripts and grant proposals
 - (*Ecology, Condor, American Midland Naturalist, Auk, Animal Behaviour, Academic Press, Island Press, U. Washington Press, Ecological Applications, Journal of Field Ornithology, Wilson Bulletin, Journal of Wildlife Management, BioScience, Science, Conservation Biology, National Science Foundation*)
- Embracing unique teaching opportunities that involve forestry professionals (e.g., Natural Resources Institute) or facilitates contact between students and professionals (e.g., distance learning classes linking forest managers on the Olympic Peninsula with UW graduate students).
- Participating on local committees for national meetings. I was involved with the annual meeting of the American Ornithologists' Union (>1000 attendees) in Boise (1996), was a co-chair of the Cooper Ornithological Society's scientific program committee in Portland (1999), and a co-chair of the 2001 annual meeting of the American Ornithologists' Union meeting in Seattle.
- Reaching out to less typical consumers of wildlife science such as the law community (1999: invited speaker at the Washington Environmental and Land-use Law Midyear Conference), policy community (1999: co-organized and spoke at a meeting exploring the relationships between the ESA and GMA in Puget Sound after the salmon listings), and restoration ecology community (1999: invited speaker in wildlife symposium at the annual meeting of the Society of Restoration Ecology, San Francisco), festival planners (2000: invited speaker at national events and festival meeting, New Orleans), and plant physiology community (2001: keynote speaker at canopy processes meeting, Corvallis).
- Presenting seminars to regional (1999: Idaho Museum of Natural History; 2000-2002: at least two talks annually to Audubon Groups and Stream Conservation Groups), and

national (1996:American Birding Association) citizen conservation organizations.

- Extensive talks to local and national audiences (2005-2011) on topics covered in recent books “In the Company of Crows and Ravens” and “Dog Days, Raven Nights.”