

WILLIAM C. WEBB

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EDUCATION

- Ph.D. Wildlife Science. University of Washington, Seattle, WA. 2010. Dissertation: *Demography, Gene Flow, and Nest Predatory Behavior of the Common Raven (Corvus corax) in a Temperate Rainforest.*
- M.S. Biology. University of California, Riverside, CA. 2001. Thesis: *Common Raven Juvenile Survival and Movements in an Arid Landscape.*
- B.S. Applied Ecology. University of California, Irvine, CA. 1996.
- B.A. English Literature. University of California, Irvine, CA. 1993.

SCIENTIFIC PUBLICATIONS

- 2012 **Webb, W. C.**, J. M. Marzluff, and J. Hepinstall-Cymerman. Differences in Space Use by Common Ravens in Relation to Sex, Breeding Status and Kinship. *The Condor* 114(3):1-11.
- 2011 **Webb, W. C.**, J. M. Marzluff, and K. E. Omland. Interbreeding Between Cryptic Lineages of the Common Raven: Evidence for Speciation in Reverse. *Molecular Ecology* 20(11):2390-2402.
- 2011 **Webb, W. C.**, J. M. Marzluff, and J. Hepinstall-Cymerman. Linking resource use with demographic parameters in a synanthropic population of Common Ravens. *Biological Conservation* 144:2264-2273.
- 2009 **Webb, W. C.**, W. I. Boarman, and J. T. Rotenberry. Movements of juvenile Common Ravens in an arid landscape. *Journal of Wildlife Management* 73(1):72-81.
- 2009 Hanks, L. M., J. D. Barbour, K. Kratz, and **W. C. Webb**. Ad libitum water source for a Common Raven. *Wilson Journal of Ornithology* 121(1):210-212.
- 2004 **Webb, W. C.**, W. I. Boarman, and J. T. Rotenberry, J. T. Common Raven juvenile survival in a human-augmented landscape. *The Condor* 106:517-528.
- 2003 **Webb, W. C.**, and N. C. Ellstrand. First record of double-brooding for the Common Raven (*Corvus corax*). *Western Birds* 33(4):258-261.

TECHNICAL REPORTS

- 2014 California Environmental Services, Shell Pond Draft Habitat Management Plan. Prepared for Pacific Gas & Electric Company. January 31, 2014.
- 2012 Chaudhri, V. K., Elenius, D., Goldenkranz, A., Gong, A., Martone, M., Webb, W. C., Yorke-Smith, N. Generalizability to Other Textbook. AURA/HALO Research Group. SRI International. Report to Vulcan, Inc. October 12, 2012.
- 2005 Boarman, W. I., W. K. Kristan, **W. C. Webb**, and H. D. Chamblin. Raven Ecology in the Mojave Desert at Edwards Air Force Base. U. S. Geological Survey. Western Ecological Research Center, Sacramento, CA
- 2002 Boarman, W. I., Coe, S. J. and **W. C. Webb**. Development of aversion techniques to prevent equipment damage by common ravens (*Corvus corax*) at China Lake Air Warfare Station. Report to China Lake Naval Air Warfare Station. U.S. Geological Survey, San Diego, California.
- 1997 **Webb, W.C.** Stability of coastal sage scrub over a decade of fire and drought. Report to the National Audubon Society, Starr Ranch Wildlife Sanctuary, Trabuco Canyon, CA.

- 1996 **Webb, W.C.** and J. C. Spickler. Site Assessment and results of intensive Marbled Murrelet surveys in the west Waddell Creek State Wilderness. Report to the California Department of Fish and Game.
- 1995 **Webb, W.C.** *Dudleya multicaulus* field survey. Journal of Undergraduate Research in the Biological Sciences, University of California, Irvine 25: 986.
- 1995 **Webb, W.C.** Restoration Ecology and Exotic Control *in* The UCI Ecological Preserve Draft Management Plan, University of California, Irvine.

INVITED TALKS

- 2012 Acterra Environmental Non-profit. Stewardship Event Guest Lecture, “Crows and Ravens”. Sunnyvale, CA June 6.
- 2011 University of California, Berkeley. Wildlife Fisheries and Conservation Biology Seminar Series, "Gene Flow, Demography, and Nest Predatory Behavior of Common Ravens in a Temperate Rainforest". Berkeley, CA Sept. 16.
- 2006 Seattle Central Community College. Department of Biology. Seattle WA, Dec. 6.
- 2006 Rayonier Timberlands Company. “Common Raven Population Dynamics, Behavior, and Gene Flow”. Forks, WA, June 1.
- 2006 Seattle Audubon Society. “Corvids of North America”. Seattle, WA, Feb. 17.
- 2006 University of Washington Wildlife Seminar Series, “Population dynamics, behavior, and gene flow of the Common Raven. May 22.
- 2005 Progressive Animal Welfare Society. “The Common Raven”. Lynnwood, WA., Nov. 6.

SCIENTIFIC PRESENTATIONS

- 2012 Omland, K. E., **W. C. Webb**, J. M. Marzluff, J. Lifjeld, and A. Johnsen. Deep mitochondrial divergence within Common Ravens: speciation in reverse in the western US and Canada? First Joint Congress on Evolutionary Biology. Ottawa, Canada, July 6-10. Poster Presentation.
- 2010 **Webb, W. C.** and J. M. Marzluff. Sociality and demographic consequences of resource use for Common Ravens in a temperate rainforest. Joint meeting of the American Ornithological Society, Cooper Ornithological Society, and Society of Canadian Ornithologists. San Diego, CA, Feb 8-11. Contributed paper.
- 2007 **Webb, W. C.** and J. M. Marzluff. Factors influencing nest predation by ravens. Annual meeting of the Cooper Ornithological Society. Moscow, Idaho, June 19-23. Contributed paper.
- 2006 **Webb, W. C.** and J. M. Marzluff. Factors influencing nest predation by ravens. IV North American Ornithological Conference. Veracruz, Mexico, October 3-7. Poster Presentation.
- 2006 **Webb, W. C.** and J. DeLap. Wildlife in the City: Use of Wildlife Injury Data to Explore Human-Wildlife Relationships. Urban Ecology and Conservation Symposium. Portland, Oregon, January 27. Poster Presentation.
- 2004 **Webb, W. C.** and W. B. Boarman. Common Raven population dynamics. Oral Presentation. Annual meeting of the Ecological Society of America. Portland, Oregon, August 1-6. Contributed paper.
- 2004 **Webb, W. C.** and W. B. Boarman. Common Raven juvenile survival and movements in a human-augmented landscape. Oral Presentation. Third International Symposium on the Raven. Metelen, Germany, July 19-21. Contributed paper.
- 2004 DeLap, J., Dooling, S., Simon, G. **Webb, W. C.** and K. Yocom. History of Urban Park Development in Seattle 1900 – 2000: An Emergent Phenomenon? Sixth Annual Poster

Symposium, Central Arizona – Phoenix Long-Term Ecological Research. Phoenix, Arizona, February 23. Poster Presentation.

2004 **Webb, W. C.**, and Boarman, W. B. Common Raven population dynamics.. Annual meeting of American Association for the Advancement of Science. Seattle, Washington, February 12-16. Poster Presentation

2003 Delap, J., Dooling, S., Simon, G., **Webb, W. C.**, and K. Yocum. 2003. An Environmental History of Seattle Parks and Green Spaces: Shifts in Land Use Culture and Ecological Consequences. Meeting of the National Association for Olmstead Parks. Seattle, Washington, April 30 – May 4. Poster Presentation.

2002 Boarman, W. I., Kristan, W. B. III, and **Webb, W. C.**. The ecology of a subsidized predator: common raven. Annual meeting of the American Ornithologists' Union: New Orleans, Louisiana, September 24- 28. Poster Presentation.

2001 **Webb, W. C.** and Boarman, W. I. 2001. Movements of juvenile Common Ravens (*Corvus corax*) in the western Mojave Desert.. Annual meeting of the American Ornithologists' Union: Seattle, Washington, August 16 –18. Contributed paper.

2001 Boarman, W. I., and **Webb, W. C.** 2001. The ecology of a subsidized predator: Common Raven. Annual conference of the Society for Conservation Biology: Hilo, Hawai'i, July 29 – August 1. Poster Presentation.

2000 **Webb, W.C.** and Boarman, W.I. 2000. Common Raven juvenile survival rates in relation to anthropogenic resource availability. Annual conference of the Western Section of the Wildlife Society: Riverside, California, January 27-29. Poster presentation.

STATISTICAL BACKGROUND

- Descriptive & multivariate statistics
- Mark-recapture & survival analyses
- Logistic regression
- AIC model selection
- Nearest-neighbor analysis
- Power analyses
- ANOVA
- Home range & kernel analyses
- Multiple regression
- Principal component analyses
- MANOVA
- Cox Regression

QUANTITATIVE TOOLS

- R, SPSS, SAS (general statistical analyses)
- FileMaker Pro
- MARK (mark-recapture analyses)
- Python (in training)
- Fragstats (spatial pattern analyses)
- ArcGIS (geospatial analyses)

RECENT QUANTITATIVE TRAINING

2012-13 Knowledge Curator and Biology Subject Matter Expert, AURA/HALO Group, Artificial Intelligence Center, Stanford Research Institute International, Menlo Park, CA.

2013 Spatial Analysis and Modeling Workshop, June 14-15. Elkhorn Slough Foundation and University of California. Santa Cruz, CA.

2007 New Approaches to Studies of Home Range, Habitat Selection, and Space Use. June 19-20. Annual Meeting of the Cooper Ornithological Society, Moscow, Idaho.

2007 Introduction to Landscape Structure Analysis Using FRAGSTATS. April 9, 2007. Annual Conference of the U.S. Chapter of the International Association for Landscape Ecology (US-IALE).

GRADUATE-LEVEL STATISTICAL & QUANTITATIVE COURSES

- Statistical Inference
- Multiple Regression & Correlation Analysis
- Automatic Geographic Information Systems
- Experimental Design & Analysis of Variance
- Quantitative Wildlife Assessment
- Quantitative Ecology Seminar

UNDERGRADUATE STATISTICAL & QUANTITATIVE COURSES

- Programming & Problem Solving
- Basic Statistics
- Physics & Physics Labs (4 quarters)
- Calculus (2 quarters)
- Astronomy
- General Chemistry & labs (3 quarters)
- Organic Chemistry & labs (3 quarters)

GRANTS, AWARDS & SELECTED ACCOMPLISHMENTS

- 2006 Travel Award. IV North America Ornithological Conference (\$400).
- 2006 Research Grant. University of Washington, Olympic Natural Resources Research Grant (\$39,265). Coauthored with John Marzluff.
- 2006 Travel Grant. University of Washington, College of Forest Resources (\$200).
- 2005-2006 Fellowship. National Science Foundation IGERT (Integrative Graduate Education & Research Traineeship).
- 2005 Research Grant. The Wildlife Society, Washington State Chapter (\$900).
- 2004 Graduate School Travel Grant. University of Washington, College of Forest Resources (\$2000).
- 2003-2006 Dissertation Research Grant. University of Washington, Interdisciplinary Program in Urban Ecology (\$3200, \$12,800, \$4300, \$3200).
- 2001 Membership Grant. American Ornithologists' Union.
- 1999, 2000 Newell Research Grant. University of California, Riverside, Department of Biology (\$400, \$400).
- 1996-1997 Located and monitored a rare active Marbled Murrelet nest in California in 1996 and another in Washington State in 1997.
- 1995 Undergraduate Excellence in Research Award. University of California, Irvine, School of Biological Sciences.

SELECTED FUNDING PROPOSALS

- 2014 Raven Studies – DTRNA: Raven Predation on Desert Tortoises. Submitted to the National Fish and Wildlife Foundation for the U.S. Fish and Wildlife Service and Desert Managers' Group. Coauthored with William I. Boarman, Conservation Science Research & Consulting, Spring Valley, California.
- 2012 Improving Effectiveness Monitoring for Reducing Raven Predation of Desert Tortoise. A Proposal to the California Desert Managers Group, Raven Working Group. Coauthored with Steve Beissinger, Department of Environmental Science, Policy, and Management, University of California Berkeley.

2011 How will solar energy development and climate change affect avian populations in the California Desert Conservation Area? Academic Sponsor: Dr. Paul Ehrlich, Bing Professor of Population Studies, Department of Biological Sciences, Stanford University.

TEACHING EXPERIENCE

- 2009-14 Part-time Faculty, Department of Biology. De Anza College, Cupertino, CA. Courses: *Human Biology, Human Anatomy & Physiology, General Biology, Health Science, Contemporary Nutrition.*
- 2012-14 Part-time Faculty, Department of Biology. Foothill College, Los Altos Hills, CA. Course: *Human Anatomy & Physiology, Diversity & Ecology Laboratory, Introduction to Human Nutrition.*
- 2008-2013 Associate Faculty, Department of Biology. Mission College, Santa Clara, CA. Courses: *Principles of Evolution & Animal Biology, Human Anatomy & Physiology, General Biology.*
- 2005 Co-Instructor. University of Washington, Program on the Environment. Course: *Introduction to Urban Ecology.*
- 2003 Teaching Assistant. University of Washington, College of Forest Resources. Course: *Wildlife Ecology and Conservation.*
- 2003-2004 Research Mentor for Undergraduate Wildlife Science Student Research Thesis.
- 2002 Lecturer in Biology. University of California, Riverside, Department of Biology. Courses: *Introduction to Organismal Biology, Introduction to Evolution and Ecology.*
- 2001-2 Adjunct Professor of Biology. Riverside Community College, Riverside, CA. Courses: *Environmental Science, General Biology, Health Science.*

POSITIONS HELD

- 2014 Contract Wildlife Biologist, Steven Singer Environmental and Ecological Services, Santa Cruz, CA.
- 2013-14 Associate Wildlife Biologist, California Environmental Services, San Ramon, CA.
- 2012-13 Knowledge Curator and Biology Subject Matter Expert, AURA/HALO Group, Artificial Intelligence Center, Stanford Research Institute International, Menlo Park, CA.
- 2010-2012 Science Education Consultant. Stanford Research Institute International, Menlo Park, CA.
- 2012-2014 Adjunct Professor of Biology. Foothill College, Los Altos Hills, CA.
- 2009-2014 Adjunct Professor of Biology. De Anza College, Cupertino, CA.
- 2011 Contract Wildlife Biologist. Biological Monitoring & Assessment Specialists (BioMaAS).
- 2008-2013 Adjunct Professor of Biology. Mission College, Santa Clara, CA.
- 2008 Science writer, "Wild Birds Expert". About.com (New York Times Company).
- 2007-2008 Contract Wildlife Biologist. Point Environmental, Inc/Washington Department of Natural Resources, South Puget Habitat Conservation Plan (HCP), Environmental Impact Statement (EIS).
- 2002-2007 Graduate Research Associate. University of Washington, College of Forest Resources.
- 2005 Co-Instructor. University of Washington, Program on the Environment.
- 2003 Teaching Assistant. University of Washington, College of Forest Resources.

- 2002 Lecturer in Biology. Department of Biology, University of California Riverside.
2002 Graduate Student Researcher. U.S. Army Corp of Engineers & UC Riverside, Avian Surveys, San Jacinto Watershed, Riverside County, CA.
2001-2002 Adjunct Professor of Biology. Riverside Community College, Riverside, CA.
2001 Graduate Student Researcher. U. S. Geological Survey & UC Riverside, Avian Surveys, Riverside, CA.
2000-2001 Graduate Researcher. Department of Biology, University of California Riverside.
1998 Contract Wildlife Biologist. Singer Environmental & Ecological Services, Santa Cruz, CA
1998 Songbird Research Technician. National Audubon Society, Trabuco Canyon, CA.
1997 Wildlife Biologist and Project Manager. Hamer Environmental, Forks, WA.
1997-1998 Research Associate. National Audubon Society, Trabuco Canyon, CA.
1997 Research Intern. National Audubon Society, Trabuco Canyon, CA.
1996-1997 Plant Restoration Volunteer. National Park Service and Golden Gate National Recreation Area, Marin and San Francisco Counties, CA.
1996 Research Associate. Humboldt State University Foundation, Santa Cruz, CA.
1995 Research Associate. Humboldt State University Foundation, Orange County, CA.
1994-1995 Residence Life Housing Assistant. University of California, Irvine.
1994-1996 Wildlife Field Research Volunteer. U.S. Fish & Wildlife Service, Orange and San Diego Counties, CA.
1992-1994 Guest Relations. Irvine Courtyard by Marriot Hotel. Irvine, CA.
1988-1992 Seasonal Maintenance Worker. City of Larkspur, Department of Public Works, Larkspur, CA.

SPECIALIZED TRAINING & CERTIFICATION

- 2014 Certified as a Marbled Murrelet Inland Surveyor, May 5-9, 2014. Training provided by Pacific Seabird Group Technical Committee Member Sean McAllister. Arcata, CA.
2013 South Bay Salt Ponds Tidal Wetland Restoration Field Trip, November 13. Hosted by the San Francisco Bay National Estuarine Research Reserve. San Jose, CA.
2013 Navigating the Environmental Compliance Process in Coastal California, September 26. Elkhorn Slough Foundation, Moss Landing CA.
2013 Western Burrowing Owl Workshop, August 30. Classroom and field practicum. Elkhorn Slough Foundation. Held at Mission College, Santa Clara, CA.
2013 Spatial Analysis and Modeling Workshop, June 14-15. Elkhorn Slough Foundation and University of California. Santa Cruz, CA.
2013 California Red-Legged Frog Workshop, May 9. Classroom and field practicum. Elkhorn Slough Foundation, Moss Landing CA.
2013 California Tiger Salamander Workshop, April 25. Classroom and field practicum. Elkhorn Slough Foundation, Moss Landing CA.
2011-13 CCB FEST: Community College Biology Faculty Enhancement through Scientific Teaching, San Francisco State University, December 10, 2011 and February 25, 2012.
2007 New Approaches to Studies of Home Range, Habitat Selection, and Space Use. June 19-20. Annual Meeting of the Cooper Ornithological Society, Moscow, Idaho.
2007 Introduction to Landscape Structure Analysis Using FRAGSTATS. April 9, 2007. Annual Conference of the U.S. Chapter of the International Association for Landscape Ecology (US-IALE).

2001 Introduction to Bird-Banding, March 28-30. Institute for Bird Population Studies. Held at Audubon Starr Ranch Sanctuary, Trabuco Canyon, CA.

1996 Certified as a Marbled Murrelet Inland Surveyor by Steven Singer Environmental and Ecological Services, Boulder Creek, CA.

POPULAR MEDIA COVERAGE

2012 Hess, P. How many ravens? *Birding* 44(2):22

2005 Matheny, E. UW graduate student studies ravens on the Olympic Peninsula. *ONRC Update* 3(5):2-3.

MANUSCRIPTS REVIEWED

Polish Science Centre, Biological Journal of the Linnean Society, Bioscience, The Condor, Czech Science Foundation, Ecography, Environmental Management, Landscape Ecology, Northwestern Naturalist, The Wilson Bulletin.

SERVICE

2012 Cooper Ornithological Society Conservation Resolutions Committee Member.

2012 Volunteer. Museum of Vertebrate Zoology, UC Berkeley, Ornithological Specimens Preparation.

2010-2011 Volunteer. Santa Clara Valley Audubon Society, Ornithological Specimens Preparation.

2004-2006 Organizing Committee Member. University of Washington, College of Forest Resources, Graduate Student Symposium.

2002-2003 Graduate Student Representative. University of Washington, College of Forest Resources, Graduate Programs Review Committee.

2002-2007 Volunteer. University of Washington. Department of Zoology, Burke Museum. Ornithological Specimens Preparation.

1996-1997 Habitat Restoration Volunteer. National Parks Service Marin County, CA.

1994-1996 Wildlife Volunteer. US Fish and Wildlife Service, Carlsbad, CA.

1992 Volunteer Coordinator. Cystic Fibrosis Foundation, Anaheim, CA.

1991 Youth Sports Instructor. Sugar Ray Robinson Youth Foundation After-School Sports Program, Los Angeles, CA.

1990 Little League Baseball Coach. Northwood-Irvine Little League. Irvine, CA.

REFERENCES

Dr. John Marzluff, Professor of Wildlife Science. University of Washington, College of the Environment, Seattle WA 98195; (206) 616-6883; corvid@u.washington.edu

Dr. Kevin Omland, Professor of Biology. Department of Biological Sciences, University of Maryland, Baltimore County. 1000 Hilltop Circle, Baltimore MD 21250; (410) 455-2243; omland@umbc.edu

Dr. Jeff Hepinstall-Cymerman, Professor of Landscape Ecology. University of Georgia, Warnell School of Forestry and Natural Resources, 180 East Green Street, Athens, GA 30602; (706) 583-8097; jhepinstall@warnell.uga.edu

- Dr. Nanette Solvason, Dean of the Biological and Health Sciences Division. Foothil Community College, 12345 El Monte Road, Los Altos CA 94022; (650) 949-7730; SolvasonNanette@fhda.edu
- Dr. William I. Boarman, Proprietor, Conservation Science Research & Consulting. 2522 Ledgeview Place, Spring Valley, CA 91977; (619) 861-9450; boarman@cox.net
- Steve Hall, Proprietor, Point Environmental, Inc. 2324 1st Avenue, Seattle, WA 98121; (206) 441-1882; shall@pointconsulting.us
- Steve Powell, Biologist and Project Manager, Biological Monitoring and Assessment Specialists (BioMaAS), 333 Valencia Street, Suite #324, San Francisco, CA 94103 (510) 734-7286; stevepowell@biomaas.com
- Dr. Anita Muthyala-Kandula, Dean, De Anza College, Biological, Health, and Environmental Sciences, and Workforce Education Division. 21250 Stevens Creek Boulevard, Cupertino, CA 95014; (408) 864-8332; kandulaanita@fhda.edu
- Dr. Vinay Chaudhri, Senior Computer Scientist. Artificial Intelligence Division, Stanford Research Institute International. 333 Ravenswood Avenue, Menlo Park, CA 94025. (650) 859-3368; vinay@ai.sri.com