

James William Rivers

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EDUCATION AND PROFESSIONAL PREPARATION

2009-2014: Postdoctoral Researcher, Oregon State University, Corvallis, OR

2002-2008: Ph.D., Biology, University of California, Santa Barbara, CA

1997-1999: M.S., Biology, Kansas State University, Manhattan, KS

1992-1996: B.S. (Honors), Wildlife Conservation, University of Massachusetts, Amherst, MA

RESEARCH INTERESTS

Forest management practices and animal demography

Influence of behavior, physiology, and ecology on vital rates

Ecology and conservation of native bees in forested systems

Basic and applied aspects of stress hormones

Ecology and evolution of avian brood parasitism

ACADEMIC AND RESEARCH-RELATED POSITIONS

2015-present *Assistant Professor, Senior Research*, Department of Forest Ecosystems & Society, Oregon State University, Corvallis, OR

2016-present *Adjunct Faculty*, Department of Fisheries and Wildlife, Oregon State University, Corvallis, OR

2013-present *Graduate Faculty*, Graduate School, Oregon State University, Corvallis, OR

2014-2015 *Faculty Research Associate*, Department of Forest Ecosystems & Society, Oregon State University, Corvallis, OR

2009-2014 *Postdoctoral Research Associate*, Department of Forest Ecosystems & Society, Oregon State University, Corvallis, OR

2002-2008 *Fellow and Teaching Assistant*, University of California, Santa Barbara, CA

2000-2002 *Research Biologist*, USGS Coop. Fish & Wildlife Research Unit, Manhattan, KS

REFEREED PUBLICATIONS

- Northrup, J. M., **J. W. Rivers**, S. K. Nelson, D. D. Roby, and M. G. Betts. 2018. Assessing the utility of satellite transmitters for identifying nest locations and foraging behavior of the threatened Marbled Murrelet. *Marine Ornithology* 46:xx-xx.
- Peer, B. D., **J. W. Rivers**, L. Merrill, S. K. Robinson, and S. I. Rothstein. 2018. The Brown-headed Cowbird: a model species for testing novel research questions in animal ecology, evolution and behavior. Pp. xx-xx in *Avian brood parasitism: behavior, ecology, evolution, and coevolution* (M. Soler, editor). Springer.
- Rivers, J. W.**, G. N. Newberry, C. J. Schwarz, and D. R. Ardia. 2017. Success despite the stress: violet-green swallows increase glucocorticoids and maintain reproductive output following experimental increases in flight costs. *Functional Ecology* 31:235-244.
- Rivers, J. W.**, J. L. Houtz, B. M. Horton, and M. G. Betts. 2017. No evidence for a link between forest herbicides and offspring sex ratio in a migratory songbird using high-throughput molecular sexing. *Conservation Physiology* 5, cox054.
- Barry, A. M., J. C. Hagar, and **J. W. Rivers**. 2017. Long-term dynamics and characteristics of snags created for wildlife habitat. *Forest Ecology and Management* 403:145-151.
- Rivers, J. W.**, and B. D. Peer. 2016. Relatedness constrains virulence in an obligate avian brood parasite. *Ornithological Science* 15:191-201.
- Liu, W.-C., **J. W. Rivers**, and D. J. White. 2016. Vocal matching and intensity of begging calls are associated with a forebrain song circuit in a generalist brood parasite. *Developmental Neurobiology* 76:615-625.
- Rivers, J. W.**, M. Johnson, S. M. Haig, C. J. Schwarz, J. Burnett, J. Brandt, D. George, and J. Grantham. 2014. An analysis of monthly home range size in the critically endangered California Condor. *Bird Conservation International* 24:492-504.
- Rivers, J. W.**, M. A. Blundell, and S. I. Rothstein. 2014. Mismatched begging displays between foreign and host offspring reduce brood parasite fitness. *Behavioral Ecology* 25:785-793.
- Rivers, J. W.**, J. M. Johnson, S. M. Haig, C. J. Schwarz, J. W. Glendening, L. J. Burnett, D. George, and J. Grantham. 2014. Resource selection in the California Condor (*Gymnogyps californianus*) relative to terrestrial-based habitats and meteorological conditions. *PLOS ONE* 9:e88430.
- Rivers, J. W.**, A. L. Liebl, L. B. Martin, and M. G. Betts. 2014. Corticosterone in territorial male Swainson's Thrushes varies relative to forest age but not vegetative cover. *Journal of Ornithology* 155:539-548.
- Kelly, T. R., J. Grantham, D. George, A. Welch, J. Brandt, L. J. Burnett, K. J. Sorenson, M. Johnson, R. Poppenga, D. Moen, J. Rasico, **J. W. Rivers**, C. Battistone, and C. K. Johnson. 2014. Spatiotemporal patterns and risk factors for lead exposure in endangered California Condors during 15 years of reintroduction. *Conservation Biology* 28:1721-1730.

- Garlick, N. W., G. N. Newberry, and **J. W. Rivers**. 2014. An assessment of nestling diet composition in the Violet-green Swallow (*Tachycineta thalassina*). *Northwest Science* 88:49-54.
- Haig, S. M., J. D'Elia, C. Eagles-Smith, J. Fair, J. Gervais, G. Herring, **J. W. Rivers** and J. H. Schulz. 2014. The persistent problem of lead poisoning in birds from ammunition and fishing tackle. *The Condor: Ornithological Applications* 116:408-428.
- Rivers, J. W.**, M. A. Blundell, T. M. Loughin, B. D. Peer, and S. I. Rothstein. 2013. The exaggerated begging behavior of an obligate avian brood parasite is shared with a nonparasitic close relative. *Animal Behaviour* 86:529-536.
- Peer, B. D., **J. W. Rivers**, and S. I. Rothstein. 2013. Cowbirds, conservation, and coevolution: potential misconceptions and directions for future research. *Chinese Birds* 4:15-30.
- Peer, B. D., **J. W. Rivers**, and S. I. Rothstein. 2013. The Brown-headed Cowbird: North America's avian brood parasite. *Chinese Birds* 4:93-98.
- Rivers, J. W.**, A. L. Liebl, J. C. Owen, L. B. Martin, and M. G. Betts. 2012. Baseline corticosterone is positively related to juvenile survival in a migrant passerine bird. *Functional Ecology* 26:1127-1134.
- Rivers, J. W.**, S. Young, E. G. Gonzalez, B. Horton, J. Lock, and R. C. Fleischer. 2012. High levels of relatedness between Brown-headed Cowbird (*Molothrus ater*) nestmates in a heavily-parasitized host community. *Auk* 129:623-631.
- Jaeckle, W. B., M. Kiefer, B. Childs, R. G. Harper, **J. W. Rivers**, and B. D. Peer. 2012. Comparison of eggshell porosity and estimated gas flux between the brown-headed cowbird and two common hosts. *Journal of Avian Biology* 43:486-490.
- Rivers, J. W.**, L. B. Martin, A. L. Liebl, and M. G. Betts. 2011. Parental alarm calls of the White-crowned Sparrow fail to stimulate corticosterone production of their nest-bound offspring. *Ethology* 117:374-384.
- Rivers, J. W.**, and D. A. Rintoul. 2011. Fatty acid composition of depot fat of shorebirds collected at mid-continental stopover sites during spring migration. *Journal of Field Ornithology* 82:225-231.
- Lupold, S., J. Wistuba, O. S. Damm, **J. W. Rivers**, and T. R. Birkhead. 2011. Sperm competition leads to functional adaptations in avian testes to maximize sperm quantity and quality. *Reproduction* 141:595-605
- Mora, M. A., B. Brattin, C. Baxter, and **J. W. Rivers**. 2011. Regional and interspecific variation in Sr, Ca, and Sr/Ca ratios in avian eggshells from the USA. *Ecotoxicology* 20:1467-1475.
- Rivers, J. W.**, J. V. Briskie, and S. I. Rothstein. 2010. Have brood parasitic cowbird nestlings caused the evolution of more intense begging by host nestlings? *Animal Behaviour* 80:e1-e5.
- Rivers, J. W.**, W. E. Jensen, K. L. Kosciuch, and S. I. Rothstein. 2010. Community-level patterns of host use by the Brown-headed Cowbird, a generalist brood parasite. *Auk* 127:263-273.

- Rivers, J. W.**, G. S. Gipson, D. P. Althoff, and J. S. Pontius. 2010. Long-term community dynamics of small landbirds with and without exposure to extensive disturbance from military training activities. *Environmental Management* 45:203-216.
- Rivers, J. W.**, T. M. Loughin, and S. I. Rothstein. 2010. Brown-headed cowbird nestlings influence nestmate begging, but not parental feeding, in hosts of three distinct sizes. *Animal Behaviour* 79:107-116.
- Betts, M. G., J. C. Hagar, **J. W. Rivers**, J. D. Alexander, K. McGarigal, and B. C. McComb. 2010. Thresholds in forest bird occurrence as a function of the amount of early seral broadleaf forest at landscape scales. *Ecological Applications* 20:2116-2130.
- Rivers, J. W.** 2009. Parent-absent begging in the Brown-headed Cowbird (*Molothrus ater*): the role of hunger and nestmate size. *Behavioral Ecology and Sociobiology* 63:707-717.
- Lupold, S., G. M. Linz, **J. W. Rivers**, D. F. Westneat, and T. R. Birkhead. 2009. Sperm competition selects beyond relative testes size in birds. *Evolution* 63:391-402.
- Kosciuch, K. L., **J. W. Rivers**, and B. K. Sandercock. 2008. Stable isotopes identify the natal origins of a generalist brood parasite, the Brown-headed Cowbird *Molothrus ater*. *Journal of Avian Biology* 39:364-367.
- Rivers, J. W.** 2007. Nestmate size, but not short-term need, influences the begging behavior of a generalist brood parasite. *Behavioral Ecology* 18:222-230.
- Rivers, J. W.**, and M. J. Kuehn. 2006. Predation of eared grebe by great blue heron. *Wilson Journal of Ornithology* 118:112-113.
- Althoff, D. P., **J. W. Rivers**, J. S. Pontius, P. S. Gipson, and P. B. Woodford. 2005. A comprehensive approach to identifying monitoring priorities of small landbirds on military installations. *Environmental Management* 34:887-902.
- Peer, B. D., S. I. Rothstein, and **J. W. Rivers**. 2005. First record of Bronzed Cowbird parasitism on the Great-tailed Grackle. *Wilson Bulletin* 117:194-196.
- Rivers, J. W.**, and B. K. Sandercock. 2004. Predation by Gray Catbird on Brown Thrasher eggs. *The Southwestern Naturalist* 49:101-103.
- Rivers, J. W.**, and J. V. Briskie. 2003. Lack of sperm production and sperm storage by arctic-nesting shorebirds during spring migration. *Ibis* 145:61-66.
- Rivers, J. W.**, D. P. Althoff, P. S. Gipson, and J. S. Pontius. 2003. Evaluation of a reproductive index to estimate Dickcissel reproductive success. *Journal of Wildlife Management* 67:136-144.
- Rivers, J. W.**, and T. T. Cable. 2003. Evaluation of farmed playa wetlands as avian habitat using survey data and two rapid assessment techniques. *The Transactions of the Kansas Academy of Science* 106:155-165.

Rivers, J. W., T. T. Cable, and J. S. Pontius. 2003. Influence of nest concealment and distance to habitat edge on depredation rates of simulated bird nests in southeast Kansas. *The Transactions of the Kansas Academy of Science* 106:40-47.

Rivers, J. W. 2000. Northern harrier predation of white-faced ibis. *Wilson Bulletin* 112:416-417.

Rivers, J. W., and D. E. Kroodsmas. 2000. Singing behavior of the hermit thrush. *Journal of Field Ornithology* 71:467-471.

Rivers, J. W. 1998. Unusually high rate of barn owl roadkills in Kansas. *Kansas Ornithological Society Bulletin* 49:43-44.

MANUSCRIPTS IN REVIEW

Rivers, J. W., J. Verschuyl, A. J. Kroll, C. J. Schwarz, and M. G. Betts. Dynamic response in breeding productivity to experimental herbicide treatments by an early-successional forest songbird. *Forest Ecology and Management*.

Rivers, J. W., C. L. Mathis, A. R. Moldenke, and M. G. Betts. Native bee response to biofuel treatments in intensively managed conifer forest. For *Global Change Biology Bioenergy*.

Barry, A. M., J. C. Hagar, and **J. W. Rivers**. Cavity-nesting bird use of created snags across 25 years. *Journal of Wildlife Management*

Hardt, B. M., D. R. Ardia, M. J. Bashaw, and **J. W. Rivers**. Experimental brood enlargement differentially influences corticosterone expression in sympatric, ecologically similar songbirds. *Functional Ecology*.

Jones, K. M., **J. W. Rivers**, and M. G. Betts. Herbicides exert weak and variable effects on microclimate in early-seral forests. *Northwest Science*.

Northrup, J. M., **J. W. Rivers**, Z. Yang, and M. G. Betts. Synergistic effects of climate and land-use change influence bird population declines. *Nature Ecology and Evolution*.

MANUSCRIPTS IN PREPARATION

Rivers, J. W., S. M. Galbraith, J. H. Cane, C. B. Schultz, and M. D. Ulyshen. A summary of research needs for pollinators in intensively managed forests. For *Insect Conservation and Diversity*.

Rivers, J. W., K. N. Jones, and M. G. Betts. Intensive forest management has a greater impact than temperature on reproductive output in a cavity-nesting songbird. For *Forest Ecology and Management*.

OTHER PROFESSIONAL PUBLICATIONS

Rivers, J. W. 2002. Book review of *The Red-cockaded Woodpecker: surviving in a fire-dominated ecosystem*. *Wildlife Society Bulletin* 30(2):653-654.

Rivers, J. W., and C. D. Lee. 2001. Biological attributes and economic costs of farmed wetlands in Kansas. Kansas State University Agricultural Experiment Station and Cooperative Extension Service.

Rivers, J. W., T. T. Cable, and C. D. Lee. 2001. Seasonal avian use of farmed Kansas wetlands. Kansas State University Agricultural Experiment Station and Cooperative Extension Service, Report No. 863.

Cable, T. T., J. A. Fox, and **J. W. Rivers**. 1999. Attitudes of Kansas agricultural producers about riparian areas, wildlife conservation, and endangered species. Kansas State University Agriculture Experiment Station and Cooperative Extension Service, Report No. 830.

Goheen, J. R., **J. W. Rivers**, and J. Brunson. 1998. The Conservation and Reinvestment Act and natural resource professionals: an example of the starving man syndrome. *Wildlife Society Bulletin* 26:649-650.

Rivers, J. W. 1997. Options for undergraduates. *Wildlife Society Bulletin* 25:202-203.

COMPETITIVE RESEARCH GRANTS

Rivers, J. W., M. G. Betts, S. M. Galbraith, U. Kormann, A. R. Moldenke, C. W. Epps, S. Kincaid, and R. Progar. 2018-2020. The role of managed forests in promoting pollinator biodiversity, health, and pollination services to wild plants and agricultural crops. *Agriculture and Food Research Initiative, U.S. Department of Agriculture*. Amount: \$1,000,000.

Rivers, J. W., and J. H. Cane. 2016-2018. Assessing pollinator response to natural and anthropogenic disturbances in mixed-conifer forests. *Fish and Wildlife Habitat in Managed Forests Research Program, College of Forestry, Oregon State University*. Amount: \$99,712.

Rivers, J. W., and J. C. Hagar. 2015-2017. Revisiting the CFIRP: Assessing long-term ecological value and characteristics of snags created for wildlife. *Fish and Wildlife Habitat in Managed Forests Research Program, College of Forestry, Oregon State University*. Amount: \$57,818.

Betts, M. G., J. P. Verschuyl, **J. W. Rivers**, D. Maguire, D. Mainwaring, J. Hatten, P. Phalan, T. Stokely, S. Fitzgerald, G. S. Latta, and M. Needham. 2015-2017. Quantifying trade-offs and synergies between ecosystem services in intensively managed forests. *Institute for Working Forest Landscapes, College of Forestry, Oregon State University*. Amount: \$249,930.

Betts, M. G., J. A. Hatten, **J. W. Rivers**, J. P. Verschuyl, C. A. Montgomery, and G. S. Latta. 2015-2017. Quantifying tradeoffs and synergies between ecosystem services and intensive forest management. *Agriculture and Food Research Initiative, U.S. Department of Agriculture*. Amount: \$499,145.

Betts, M. G., and **J. W. Rivers**. 2014-2016. Assessing the demographic response of early seral songbird species to intensive forest management. *Fish and Wildlife Habitat in Managed Forests Research Program, College of Forestry, Oregon State University*. Amount: \$76,933.

Rivers, J. W., and M. G. Betts. 2013. Assessing the consequences of herbicide use on animal pollinators in early seral forests. *College of Forestry, Oregon State University*. Amount: \$25,000.

Rivers, J. W., and M. G. Betts. 2013. Quantifying the consequences of herbicides on animal pollinators in regenerating forest habitats of western Oregon. *Katherine Bisbee II Conservation Fund, Oregon Community Foundation*. Amount: \$2,442.

McComb, B. C., **J. W. Rivers**, and D. R. Ardia. 2011-2012. How costly are coping styles? Using heart rate telemetry to quantify energetic costs mounted in response to environmental stressors in wild songbirds. *Oregon State University General Research Fund*. Amount: \$10,000.

Rivers, J. W. 2011. Measuring the physiological response of cavity-nesting songbirds to environmental stressors using heart-rate telemetry. *North American Bluebird Society*. Amount: \$2,500 (+\$500 additional from *New York State Bluebird Society*).

Betts, M. G., D. Wilson, **J. W. Rivers**, S. Fitzgerald, D. Maguire, R. Rose, and J. Johnson. 2009-2011. Quantifying trade-offs between biodiversity conservation and timber production in intensively managed forests. *Agriculture and Food Research Initiative, U.S. Department of Agriculture*. Amount: \$497,677.

Rothstein, S. I., and **J. W. Rivers**. 2006. An experimental, comparative investigation to assess the extent and consequences of nestling behavioral adaptations in a recently evolved brood parasite. *National Science Foundation*. Amount: \$9,300.

Rothstein, S. I., and **J. W. Rivers**. 2006. Assessing the extent of nestling adaptations in a recently evolved brood parasite. *Academic Senate Council, University of California, Santa Barbara*. Amount: \$9,000.

NON-COMPETITIVE RESEARCH GRANTS

Rivers, J. W. 2018-2019. The impact of fire and management actions on demographic rates of a forest health indicator group. *Oregon Department of Forestry*. Amount: \$80,000.

Rivers, J. W. 2018-2019. Black-backed Woodpecker demographic rates in an understudied habitat: unburned conifer forest. *National Council for Air and Stream Improvement*. Amount: \$80,000.

Rivers, J. W., M. G. Betts, S. K. Nelson, and D. D. Roby. 2015-2019. Predictors of space use and reproductive success in the Marbled Murrelet. Joint Natural Resources Committee on Ways and Means, Oregon State Legislature. Appropriation to Forest Research Laboratory, College of Forestry, Oregon State University. Amount: \$5,780,000.

Krawchuk, M., M. G. Betts, M. Swanson, and **J. W. Rivers**. 2017. Biodiversity in natural and managed early seral forests of southern Oregon. *National Council for Air and Stream Improvement*. Amount: \$20,000.

- Rivers, J. W.** 2016-2018. Assessing pollinator response to natural and anthropogenic disturbances in mixed-conifer forests. *Fish, Wildlife and Plant Conservation Resource Management Program, Bureau of Land Management*. Amount: \$320,000.
- Rivers, J. W.** 2016-2018. Assessing pollinator response to natural and anthropogenic disturbances in mixed-conifer forests. *Mealey/Boise Cascade/Boone and Crockett/Noble Endowment Fund, College of Forestry, Oregon State University*. Amount: \$100,000.
- Betts, M. G., and **J. W. Rivers**. 2016. Intensive Forest Management Study: early seral bird demography and database management. *National Council for Air and Stream Improvement*. Amount: \$33,630.
- Rivers, J. W.** 2015-2016. Assessing long-term ecological value and characteristics of snags created for wildlife. *College Forests, Oregon State University*. Amount: \$5,000.
- Rivers, J. W.** 2015-2016. Wildlife surveys in forest ecosystems. *U.S. Geological Survey Cooperative Project Award*. Amount: \$18,994.
- Rivers, J. W.**, and M. G. Betts. 2014. Assessing the impact of intensively management practices on songbird demography in the Pacific Northwest. *National Council for Air and Stream Improvement*. Amount: \$68,040.
- Betts, M. G., and **J. W. Rivers**. 2014. Quantifying intensive management impacts on songbird demography in the Pacific Northwest. *National Council for Air and Stream Improvement*. Amount: \$35,000.
- Betts, M. G., and **J. W. Rivers**. 2013. Assessing the impact of intensively managed plantations on bird demography and in the Pacific Northwest. *National Council for Air and Stream Improvement*. Amount: \$30,000.

AWARDS AND HONORS

- Vice Provost's Outreach and Engagement Awards of Excellence**, Honorable Mention; Division of University Outreach and Engagement, Oregon State University (2016).
- Fellow**, American Ornithologists' Union (2015). This recognition exceptional and sustained contributions to ornithology and/or service to the American Ornithologists' Union.
- Dean's Award for Outstanding Achievement**, College of Forestry, Oregon State University (2015). This award given in recognition for outstanding efforts in research, teaching, and mentoring in wildlife-forestry research as a faculty research assistant.
- Young Investigator Award**, American Ornithologists' Union (2012). This award recognizes researchers who have made outstanding and promising ornithological contributions early in their career and show a distinct promise for leadership in the field of ornithology.
- Certified Wildlife Biologist**, The Wildlife Society (2010).
- Elective Member**, American Ornithologists' Union (2007).

Student Presentation Award, Honorable Mention. 4th North American Ornithological Conference, Veracruz, Mexico (in top 5% of ~470 student presentations; 2006).

GSA Excellence in Teaching Award, Honorable Mention, Graduate Student Association, University of California, Santa Barbara (2005).

Associate Wildlife Biologist, The Wildlife Society (2001).

Elective Member, Sigma Xi (1998).

Elective Member, Xi Sigma Pi Honor Society (1997).

Commonwealth Scholar, Honors Program, University of Massachusetts (1996).

Student Leadership Award, Rocky Mountain Elk Foundation (1996).

PRESENTATIONS AT SCIENTIFIC CONFERENCES

Rivers, J. W., L. Adrean, M. Pickett, B. Taggart, S. K. Nelson, D. D. Roby, and M. G. Betts. 2017. Testing whether unmanned aerial vehicles can be used to locate cryptic nests of the Marbled Murrelet. Contributed oral presentation as the annual meeting of the American Ornithological Society, East Lansing, MI.

Barry, A. M., J. C. Hagar, and **J. W. Rivers**. 2017. If you build it, who will come? Assessing use of created snags by cavity-nesting birds across 25 years. Invited oral presentation as the annual meeting of the American Ornithological Society, East Lansing, MI.

Galbraith, S. M., J. H. Cane, A. R. Moldenke, and **J. W. Rivers**. 2017. Bee diversity is linked to wildfire severity and salvage logging in Oregon mixed-conifer forest. Contributed oral presentation at the annual meeting of the Ecological Society of America, Portland, OR.

Galbraith, S. M., J. H. Cane, and **J. W. Rivers**. 2017. The influence of wildfire burn severity and post-fire management on bee community composition in mixed-conifer forest. Invited oral presentation at the annual meeting of the Pacific Branch of the Entomological Society of America, Portland, OR.

Pickett, M. H., B. K. Taggart, **J. W. Rivers**, L. J. Adrean, and S. K. Nelson. 2017. Utilizing UAS to locate nesting seabirds within the canopy of mature forests. Contributed oral presentation at the annual meeting of the Association for Unmanned Vehicle Systems International, Dallas, TX.

Rivers, J. W., C. L. Mathis, A. R. Moldenke, and M. G. Betts. 2017. Assessing the effects of post-harvest biomass removal on early-successional forest bee communities. Invited oral presentation at Pollinators in Managed Forest Landscapes Workshop, Oregon State University, Corvallis, OR.

Galbraith, S. M., J. H. Cane, and **J. W. Rivers**. 2017. The influence of wildfire severity and post-fire management on pollinator communities in mixed-conifer forest. Invited oral presentation at Pollinators in Managed Forest Landscapes Workshop, Oregon State University, Corvallis, OR.

- Kormann, U., **J. W. Rivers**, M. Scherr, and M. G. Betts. 2017. Pollinator community response to stand-level herbicide treatment. Invited oral presentation at Pollinators in Managed Forest Landscapes Workshop, Oregon State University, Corvallis, OR.
- Rivers, J. W.**, L. J. Adrean, M. Pickett, B. Taggart, S. K. Nelson, D. D. Roby, and M. G. Betts. 2017. Testing whether unmanned aerial vehicles can be used to locate cryptic nests of the Marbled Murrelet. Contributed oral presentation at the annual meeting of the Oregon Chapter of The Wildlife Society, Pendleton, OR.
- Galbraith, S. M., J. H. Cane, and **J. W. Rivers**. 2017. The influence of wildlife severity and post-fire management on pollinator communities in a mixed-conifer forest. Contributed oral presentation at the annual meeting of the Oregon Chapter of The Wildlife Society, Pendleton, OR.
- Northrup, J. M., **J. W. Rivers**, S. K. Nelson, D. D. Roby, L. J. Adrean, and M. G. Betts. 2017. Spatiotemporal patterns of corvid distribution and abundance in areas occupied by Marbled Murrelets. Contributed oral presentation at the annual meeting of the Oregon Chapter of The Wildlife Society, Pendleton, OR.
- Barry, A. M., J. C. Hagar, and **J. W. Rivers**. 2017. Created snag dynamics and influence on cavity-nesting bird communities over 25 years in western Oregon. Contributed oral presentation at the annual meeting of the Oregon Chapter of The Wildlife Society, Pendleton, OR.
- Adrean, L. J., S. K. Nelson, J. M. Northrup, D. D. Roby, M. G. Betts, and **J. W. Rivers**. 2017. Evaluating space use and reproductive success of the threatened Marbled Murrelet in western Oregon. Contributed oral presentation at the annual meeting of the Oregon Chapter of The Wildlife Society, Pendleton, OR.
- Adrean, L. J., M. Pickett, B. Taggart, S. K. Nelson, D. D. Roby, M. G. Betts and **J. W. Rivers**. 2017. Testing whether unmanned aerial vehicles can be used to locate cryptic nests of the Marbled Murrelet. Contributed oral presentation at the annual meeting of the Pacific Seabird Group, Tacoma, WA.
- Northrup, J. M., **J. W. Rivers**, S. K. Nelson, D. D. Roby, L. J. Adrean, and M. G. Betts. 2017. Spatiotemporal patterns of corvid distribution and abundance in areas occupied by Marbled Murrelets. Contributed oral presentation at the annual meeting of the Pacific Seabird Group, Tacoma, WA.
- S. K. Nelson, J. M. Northrup, D. D. Roby, M. G. Betts, L. J. Adrean, and **J. W. Rivers**. 2017. Evaluating space use and reproductive success of the threatened Marbled Murrelet in western Oregon. Contributed poster presentation at the annual meeting of the Pacific Seabird Group, Tacoma, WA.
- Rivers, J. W.** 2016. Evaluating the effects of intensive forest management on songbird productivity. Invited oral presentation and panel discussion at the annual meeting of the Oregon Forest and Industries Council, Sun River, OR.
- Rivers, J. W.** 2016. Testing the impact of experimental herbicide treatments on breeding productivity of early-successional forest songbirds. Invited oral presentation at the annual

meeting of the Pacific Northwest Reforestation Council, Vancouver, WA.

Rivers, J. W., M. G. Betts, S. K. Nelson, and D. D. Roby. 2016. Predictors of space use and reproductive success in the Marbled Murrelet. Invited oral presentation at the West Coast Regional Meeting of The National Council for Air and Stream Improvement, Inc., Vancouver, WA.

Barry, A. M., J. C. Hagar, and **J. W. Rivers**. 2016. Created snag dynamics and impacts on cavity-nesting bird communities over 25 years in western Oregon. Invited oral presentation at the West Coast Regional Meeting of The National Council for Air and Stream Improvement, Inc., Vancouver, WA.

Rivers, J. W., J. M. Northrup, M. G. Betts, S. K. Nelson, and D. D. Roby. 2016. Evaluating space use and reproductive success of the threatened Marbled Murrelet in western Oregon. Poster presentation at the 6th North American Ornithological Conference, Washington, D.C.

Houtz, J. L., **J. W. Rivers, J. W.**, B. M. Horton, and M. G. Betts. 2016. Evaluating the influence of forest herbicides on offspring sex ratio in an early-successional forest songbird. Poster presentation at the annual Pennsylvania State System of Higher Education Undergraduate Research Conference in Science, Technology, Engineering, and Mathematics, Millersville, PA.

Houtz, J. L., **J. W. Rivers, J. W.**, B. M. Horton, and M. G. Betts. 2016. Evaluating the influence of forest herbicides on offspring sex ratio in an early-successional forest songbird. Poster presentation at the 6th North American Ornithological Conference, Washington, D.C.

Rivers, J. W., M. G. Betts, A. J. Kroll, C. J. Schwarz, and J. Verschuyf. 2015. Songbird demographic response to herbicide application in early-seral forest. Oral presentation at the 133rd meeting of the American Ornithologists' Union, Norman, OK.

Rivers, J. W., J. Verschuyf, A. J. Kroll, and M. G. Betts. 2015. The influence of intensive forest management practices on breeding success of the White-crowned Sparrow, an early-seral songbird. Invited symposium presentation at annual meeting of the Oregon Chapter of The Wildlife Society, Eugene, OR.

Rivers, J. W., J. Verschuyf, A. J. Kroll, and M. G. Betts. 2015. Quantifying tradeoffs between biodiversity and timber production in western Oregon: an overview of the Intensive Forest Management (IFM) study. Invited oral symposium presentation at the annual meeting of the Washington Chapter of The Wildlife Society, Grand Mound, WA.

Rivers, J. W., J. Verschuyf, A. J. Kroll, and M. G. Betts. 2015. Influence of intensive forest management on breeding success of an early-seral songbird. Invited oral symposium at the annual meeting of the Washington Chapter of The Wildlife Society, Grand Mound, WA.

Mathis, C. L., **J. W. Rivers**, and M. G. Betts. 2015. Assessing the influence of organic biofuel removal on bee diversity in early-seral production forests. Poster presentation at the annual meeting of the Oregon Chapter of The Wildlife Society, Eugene, OR.

- Hardt, B., **J. W. Rivers**, D. R. Ardia, and M. J. Bashaw. 2015. Assessing the role of corticosterone in regulating the stress response in *Tachycineta* swallows. Poster presentation at the annual meeting of the Oregon Chapter of The Wildlife Society, Eugene, OR.
- Rivers, J. W.**, J. Verschuyl, A. J. Kroll, C. J. Schwarz, and M. G. Betts. 2014. Invited oral presentation at Wildlife in Managed Forests: Songbirds and Early Seral Habitats Workshop, Oregon Forests Research Institute, Albany, OR.
- Verschuyl, J., M. G. Betts, **J. W. Rivers**, J. Giovanini, and A. J. Kroll. 2014. Invited oral presentation at Wildlife in Managed Forests: Songbirds and Early Seral Habitats Workshop, Oregon Forests Research Institute, Albany, OR.
- Rivers, J. W.**, and D. A. Ardia. 2014. Why do individual birds differ in their use of feeders? Implications for the wild bird feeding industry. Invited oral presentation at the 30th annual meeting of the Wild Bird Feeding Industry, Naples, FL.
- Rivers, J. W.**, and M. G. Betts. 2014. Intensive forest management practices reduce nest survival and offspring production: evidence from a landscape-scale experiment. Oral presentation at the 132nd meeting of the American Ornithologists' Union, Estes Park, CO.
- Jones, K. N., J. W. Rivers, and M. B. Betts. 2014. Effects of intensive forest management on reproductive success in a cavity-nesting songbird. Poster presentation at the 2014 at the 132nd meeting of the American Ornithologists' Union, Estes Park, CO.
- Rivers, J. W.**, J. Verschuyl, A. J. Kroll, and M. G. Betts. 2014. Quantifying the demographic consequences of intensive management practices on breeding birds in early seral plantation forests. Invited oral presentation at the annual meeting of the Oregon Chapter of The Wildlife Society, Bend, OR.
- Verschuyl, J., M. G. Betts, K. Jones, **J. W. Rivers**, and A. J. Kroll. 2014. A manipulative study of the effects of forest herbicide use on nest success of early seral birds. Oral presentation at the Annual Meeting of the Washington Chapter of The Wildlife Society, Pasco, WA.
- Rivers, J. W.**, J. Verschuyl, A. J. Kroll, and M. G. Betts. 2013. Avian demography across a gradient of management intensity in early seral plantation forests. Invited oral presentation at the 2013 West Coast Regional Meeting of The National Council for Air and Stream Improvement, Inc., Vancouver, WA.
- Rivers, J. W.**, M. A. Blundell, and S. I. Rothstein. 2013. Begging displays of Brown-headed Cowbird nestlings are insufficient to maximize food provisioning by a small host. Invited oral presentation at the 131st meeting of the American Ornithologists' Union, Chicago, IL.
- Rothstein, S. I., B. D. Peer, **J. W. Rivers**, and R. C. Fleischer. 2013. New and old directions in the study of brood parasitism: from Herbert Friedman to modern phylogenetics. Invited oral presentation at the 131st meeting of the American Ornithologists' Union, Chicago, IL.
- Peer, B. D., **J. W. Rivers**, and S. I. Rothstein. 2012. Cowbirds, conservation, and coevolution: potential misconceptions and directions for future research. Invited oral presentation at the 1st International Symposium on Avian Brood Parasitism, Hainan, China.

- J. W. Rivers**, G. Newberry, and D. R. Ardia. 2012. Divergent responses to an extreme stressor in two sympatric *Tachycineta* swallows. Poster presentation at the 5th North American Ornithological Conference, Vancouver, British Columbia.
- Newberry, G. N., and **J. W. Rivers**. 2012. Differences in diet composition of coexisting Violet-green and Tree Swallows during offspring provisioning. Poster presentation at the 5th North American Ornithological Conference, Vancouver, British Columbia.
- Rivers, J. W.**, M. Johnson, C. J. Schwarz, J. Brandt, J. Burnett, D. George, and S. M. Haig. 2012. An assessment of home range size in the California Condor across the annual cycle. Invited oral presentation at the California Condor Partner's Meeting, Portland, OR.
- Rivers, J. W.**, M. G. Betts, A. L. Liebl, J. C. Owen, and L. B. Martin. 2010. Assessing whether the corticosterone stress response predicts post-fledging survival in a temperate passerine. Poster presentation at the 128th meeting of the American Ornithologists' Union, San Diego, CA.
- Vesely, D. G., M. G. Betts, D. Smith, and **J. W. Rivers**. 2010. Use of conservation detection dogs to assist in passerine nest searches. Oral presentation at the 7th annual Research Advances in Fisheries, Wildlife, and Ecology Symposium, Corvallis, OR.
- Rivers, J. W.**, L. B. Martin, A. L. Liebl, and M. G. Betts. 2009. Alarm calls of White-crowned Sparrow parents fail to stimulate corticosterone production in their offspring. Oral presentation at the 127th meeting of the American Ornithologists' Union, Philadelphia, PA.
- Mora, M. A., B. Brattin, C. Baxter, and **J. W. Rivers**. 2009. Ecotoxicological implications of Sr accumulation in eggshells of birds from North America. Poster presentation at the 19th meeting of the Society of Environmental Toxicology and Chemistry, Göteborg, Sweden.
- Rivers, J. W.**, B. D. Peer, and S. I. Rothstein. 2008. Assessing whether exaggerated begging behavior in the Brown-headed Cowbird is an adaptation for brood parasitism. Poster presentation at the 12th International Behavioral Ecology Congress, Ithaca, NY.
- Lüpold, S., **J. W. Rivers**, G. M. Linz, D. F. Westneat, and T. R. Birkhead. 2008. Post-copulatory sexual selection shaping sperm and testes in birds. Oral presentation at the 12th International Behavioral Ecology Congress, Ithaca, NY.
- Peer, B. D., R. G. Harper, **J. W. Rivers**, and J. Frick. 2008. Acceptance of cowbird parasitism by Dickcissels: is pesticide thinning of eggshells to blame? Poster presentation at the 12th International Behavioral Ecology Congress, Ithaca, NY.
- Rivers, J. W.**, B. D. Peer, and S. I. Rothstein. 2008. Begging behavior of the Brown-headed Cowbird: notable as a nest parasite, or boring like a blackbird? Oral presentation at the 126th meeting of the American Ornithologists' Union, Portland, OR.
- Rivers, J. W.**, W. E. Jensen, K. L. Kosciuch, and S. I. Rothstein. 2008. Community-level patterns of host use by the Brown-headed Cowbird, a generalist brood parasite. Poster presentation at the 126th meeting of the American Ornithologists' Union, Portland, OR.

- Blundell, M. A., **J. W. Rivers**, and S. I. Rothstein. 2008. Brown-headed Cowbird begging and feeding by host parents: does exaggerated begging lead to exaggerated provisioning? Oral presentation at the 126th meeting of the American Ornithologists' Union, Portland, OR.
- Blundell, M. A., **J. W. Rivers**, and S. I. Rothstein. 2008. Begging behavior of Brown-headed Cowbird chicks: does exaggerated begging lead to exaggerated provisioning? Poster presentation at the 35th Society for the Advancement of Chicanos and Native Americans in Science Conference, Salt Lake City, UT.
- Rivers, J. W.**, W. E Jensen, K. L. Kosciuch, and S. I. Rothstein. 2007. Community-level patterns of host use by the Brown-headed Cowbird, a generalist brood parasite. Invited oral presentation at the 4th Australasian Ornithological Conference, Perth, Australia.
- Peer, B. D., R. G. Harper, **J. W. Rivers**, J. W. Frick, M. D. Benson, M. Anderson, B. Blackwell, T. Eshedagho, J. Raabe, B. Wall, and E. Wear. 2007. Implications of organochlorine contamination on brood parasite-host coevolution. Invited poster presentation at the 4th Australasian Ornithological Conference, Perth, Australia.
- Rivers, J. W.**, W. E Jensen, K. L. Kosciuch, and S. I. Rothstein. 2007. Community-level patterns of host use by a generalist brood parasite. Poster presentation at the 125th meeting of the American Ornithologists' Union, Laramie, WY.
- Kosciuch, K. L., **J. W. Rivers**, and B. K. Sandercock. 2007. Stable isotopes identify the natal origins of a generalist brood parasite. Poster presentation at the 125th meeting of the American Ornithologists' Union, Laramie, WY.
- Peer, B. D., R. G. Harper, **J. W. Rivers**, J. W. Frick, M. D. Benson, M. Anderson, B. Blackwell, T. Eshedagho, J. Raabe, B. Wall, and E. Wear. 2007. Dickcissels, DDT, and cowbirds: an evolutionary equilibrium? Oral presentation at the 125th meeting of the American Ornithologists' Union, Laramie, WY.
- Rivers, J. W.** and S. I. Rothstein. 2007. Exaggerated begging is not an adaptation for brood parasitism in the Brown-headed Cowbird. Oral presentation at the 87th meeting of The Wilson Ornithological Society, Boston, MA.
- Kosciuch, K. L., **J. W. Rivers**, and B. K. Sandercock. 2007. Stable isotopes identify the natal origins of a generalist brood parasite. Poster presentation at the 87th meeting of The Wilson Ornithological Society, Boston, MA.
- Rivers, J. W.**, W. E Jensen, K. L. Kosciuch, and S. I. Rothstein. 2007. Community-level patterns of host use by a generalist brood parasite. Poster presentation at the 125th Kansas Ornithological Society, Manhattan, KS.
- Rivers, J. W.**, and S. I. Rothstein. 2006. Comparative evidence indicates exaggerated begging behavior by nestling Brown-headed Cowbirds is not a unique adaptation for brood parasitism. Oral presentation at the 43rd meeting of the Animal Behavior Society, Snowbird, UT.
- Rivers, J. W.** and S. I. Rothstein. 2006. Assessing whether the exaggerated begging of a generalist brood parasite is an adaptation for brood parasitism. Oral presentation at the 4th North American Ornithological Conference, Veracruz, Mexico.

- Peer, B. D., R. G. Harper, **J. W. Rivers**, J. W. Frick, J. Raabe, B. Blackwell, M. Anderson, and E. Wear. 2006. Does organochlorine contamination in Dickcissel eggs force them to accept cowbird parasitism? Poster presentation at the 4th North American Ornithological Conference, Veracruz, Mexico.
- Rivers, J. W.**, and S. I. Rothstein. 2005. The influence of hunger on begging behavior in the Brown-headed Cowbird. Poster presentation at the 123rd meeting of the American Ornithologists' Union, Santa Barbara, CA.
- Rivers, J. W.**, S. Young, E. Gonzalez, and R. C. Fleischer. 2005. Evidence for sibling relatedness in nests multiply-parasitized by Brown-headed Cowbirds. Poster presentation at the annual Southern California Animal Behavior Symposium, Riverside, CA.
- Rivers, J. W.** 2004. The influence of nestmate size on begging behavior in Brown-headed Cowbirds. Invited oral presentation at the 122nd meeting of the American Ornithologists' Union, Quebec City, Quebec, Canada.
- Rivers, J. W.**, S. Young, E. Gonzalez, and R. C. Fleischer. 2004. Evidence for sibling relatedness in nests multiply-parasitized by Brown-headed Cowbirds. Poster presentation at the 122nd meeting of the American Ornithologists' Union, Quebec City, Quebec, Canada.
- Rivers, J. W.** 2003. An investigation of the proximate factors that influence begging behavior in nestling Brown-headed Cowbirds. Oral presentation at the 121st meeting of the American Ornithologists' Union, Urbana-Champaign, IL.
- Rivers, J. W.**, D. P. Althoff, P. S. Gipson, and J. S. Pontius. 2002. Evaluation of a reproductive index to estimate Dickcissel reproductive success. Oral presentation at the 3rd North American Ornithological Conference, New Orleans, LA.
- Rivers, J. W.**, D. P. Althoff, P. S. Gipson, J. S. Pontius, and A. Abuzeineh. 2001. Evaluation of an index method to measure Dickcissel breeding success in northeastern Kansas. Oral presentation at the 63rd Midwest Fish and Wildlife Conference, Des Moines, IA.
- Rivers, J. W.** and J. V. Briskie. 2001. Lack of sperm production and sperm storage by arctic-nesting shorebirds during spring migration. Oral presentation at the annual meeting of the Kansas Ornithological Society, Wichita, KS.
- Rivers, J. W.** and J. V. Briskie. 2001. Lack of sperm production and sperm storage by arctic-nesting shorebirds during spring migration. Oral presentation at the 82nd meeting of The Wilson Ornithological Society, Fayetteville, AR.
- Rivers, J. W.**, D. P. Althoff, P. S. Gipson, P. B. Woodford, and J. S. Pontius. 2001. Long-term population trends of grassland birds on Ft. Riley, Kansas. Poster presentation at the 71st Annual Conference of the Cooper Ornithological Society, Albuquerque, NM.
- Althoff, D. P, **J. W. Rivers**, P. S. Gipson, P. B. Woodford, and J. S. Pontius. 2001. Monitoring and evaluating long-term population trends of small landbirds on Fort Riley Military Installation, Kansas, 1991-2000. Oral presentation at the 10th Integrated Training Area Management Conference Nashville, TN.

Althoff, D. P, **J. W. Rivers**, P. S. Gipson, P. B. Woodford, and J. S. Pontius. 2001. Evaluation of long-term population trends of small landbirds on Fort Riley Military Installation, Kansas. Oral presentation at the 8th Annual Conference of The Wildlife Society, Reno/Tahoe, NV.

Rivers, J. W., T. T. Cable, and P. S. Gipson. 2000. The role of farmed wetlands as habitats for birds in Kansas. Poster presentation at the annual meeting of the Kansas Ornithological Society, Overland Park, KS.

Rivers, J. W., T. T. Cable, and J. S. Pontius. 2000. House Sparrow eggs in artificial nests overestimate Dickcissel nest predation rates. Oral presentation at the 7th Annual Conference of The Wildlife Society, Nashville, TN.

Rivers, J. W., T. T. Cable, and P. S. Gipson. 2000. Avian use of farmed wetlands in Kansas. Poster presentation at the 8th International Symposium on Society and Resource Management, Bellingham, WA.

Rivers, J. W., M. R. Rougès, and T. G. Smith. 1999. A survey of avian ectoparasites from El Rey National Park, Argentina. Oral presentation at the XIX Reunión Argentina de Ecología, San Miguel de Tucumán, Argentina.

Rivers, J. W., T. G. Smith, and M. R. Rougès. 1998. An inventory of avian ectoparasites from north-central Argentina. Oral presentation at the annual meeting of the Kansas Ornithological Society, Lawrence, KS.

Rivers, J. W. 1997. Song variation and singing behavior in the Hermit Thrush. Oral presentation at the annual meeting of the Kansas Ornithological Society, Wichita, KS.

WORKSHOPS/SYMPOSIA ORGANIZED AT SCIENTIFIC CONFERENCES

“Pollinators in Managed Forest Landscapes.” 2017. Workshop organized with Sara Galbraith to bring together researchers and resource managers to establish a research agenda for pollinator research within managed forest landscapes.

“From Fungi to Fledglings: Cavity-nesting Bird Ecology and Conservation Across North America.” 2017. Symposium organized with Amy Barry for annual meeting of the American Ornithological Society, East Lansing, Michigan.

“Ecology and Evolution of Brood Parasitism.” 2007. Symposium organized with Mark Hauber for annual meeting of the Australasian Ornithological Society, Perth, West Australia.

“Workshop for Manuscript Reviewers.” 2005. Workshop organized with Spencer Sealy for 123rd annual meeting of American Ornithologists’ Union, Santa Barbara, California, USA.

“Ecology and Evolution of Nestling Begging Behavior.” 2004. Symposium organized with Marty Leonard for 122nd annual meeting of American Ornithologists’ Union, Quebec City, Quebec, Canada.

“Influence of exotic species on biological diversity.” 2002. Symposium organized with Brian Kernohan for the 9th Annual Conference of The Wildlife Society, Bismarck, North Dakota, USA.

INVITED SEMINARS

Oregon State University, Research Office (2017).
 Oregon Audubon Society Council, Corvallis, Oregon (2016)
 Department of Biology, Portland State University (departmental seminar, 2014)
 OSU Bird Nerds, Oregon State University (student group, 2013)
 Corvallis Audubon Society, Corvallis, Oregon (2011)
 Oregon State University, Department of Forest Ecosystems and Society (departmental seminar, 2009)
 Oregon State University, Department of Fisheries and Wildlife (AVES seminar group, 2008)
 Cornell University, Department of Ecology and Evolution (Ornithology seminar group, 2007)
 Tufts University, Department of Biology (Graduate Student Research seminar group, 2007)
 University of British Columbia, Department of Forest Sciences (Center for Applied Conservation Research seminar group, 2007)
 University of Utah, Department of Biology (Avian Ecology seminar group, 2006)
 Kansas State University, Division of Biology (Ecology and Evolution seminar group, 2005)
 Northern Flint Hills Audubon Society, Manhattan, Kansas (1999)
 Kansas State University, Dept. Horticulture, Forestry, and Recreational Resources (departmental seminar, 1999)

SPECIALIZED TRAINING

The Bee Course, Southwest Research Station, Portal, Arizona (2014). Nine-day long course designed for biologists whose research, training, or teaching responsibilities require a greater understanding of bee taxonomy. It emphasizes the classification and identification of more than sixty bee genera of North and Central America (both temperate and tropical), and the general information provided is applicable to the global bee fauna. Students learn background information on bee biology, bee-plant relationships, their importance in maintaining and/or improving floral diversity, inventory strategies, and the significance of oligolecty (i.e., taxonomic floral specialization). Field trips acquaint participants with collecting and sampling techniques; associated lab work provides instruction on specimen identification, preparation and labeling.

TEACHING EXPERIENCE (INSTRUCTOR OF RECORD)

Responsible Conduct of Research (GRAD 520, 2014-2015), Graduate School, Oregon State University. Instructed 1-unit graduate level course to teach responsible conduct of research for OSU graduate students who conduct scholarly activity during the course of their graduate work. Topics include ethical decision making; human subjects; animal welfare; data acquisition, sharing, and ownership; research misconduct; conflicts of interest; authorship; peer review; mentor/trainee responsibilities; and collaborative science.

Species Distributions (FS 599, 2013), Department of Forest Ecosystems, Oregon State University. Co-instructed 2-unit graduate course designed to provide graduate students with a broad overview of key topics in species distributions, with a focus on fundamental drivers of distributions (e.g., abiotic and biotic environmental features, competition, facilitation) and an introduction to modeling approaches used to predict species distributions in space and time.

Principles of Fish and Wildlife Conservation (FW 251, 2012), Department of Fisheries and Wildlife, Oregon State University. Co-instructed 3-unit sophomore level undergraduate course (enrollment limited to 100 students) to understand basic principles underlying the conservation and management of fish and wildlife; examine the social, cultural, and political institutions that affect conservation and management issues; and understand how scientific knowledge and research are used in the conservation and management of our natural resources.

Mammalogy (FW 317 DE, 2011-2012), Department of Fisheries and Wildlife, Oregon State University. Instructed 3-unit upper level undergraduate distance education course (enrollment limited to 40 students) to survey the origins, evolution, diversity, and adaptations of mammals to diverse environments. Topics include taxonomy, reproduction, sensory perception, physiology, life history, and behavior.

Animal Personality and Coping Styles (FW 499/599, 2011), Department of Fisheries and Wildlife, Oregon State University. Instructed 2-unit upper level undergraduate and graduate student course (enrollment limited to 10 students) on the study of animal personality and coping style, with an emphasis on how organisms vary in individual behaviors how variation in behaviors may be adaptive in light of various environmental stressors.

Ecophysiology of Birds (FW 599, 2011), Department of Fisheries and Wildlife, Oregon State University. Co-instructed 1-unit graduate seminar course (enrollment limited to 10 students) focusing on understanding adaptive variation in ecological physiology of birds, with a focus on how this variation suits divergent lifestyles.

Wildlife Ecology (FW 481/581, 2010-2011), Department of Fisheries and Wildlife, Oregon State University. Instructed 4-unit upper level undergraduate and graduate student course (enrollment limited to 30 students) on the study of basic ecological principles and patterns as they relate to the conservation and management of biodiversity, especially factors that influence the distribution and abundance of wildlife.

GUEST LECTURER

Posing Research Questions, Department of Forest Ecosystems and Society, Oregon State University (2014-2016).

Ornithology, Division of Biology, Kansas State University (2014).

Designing a path for success; an orientation for graduate students, Graduate Division, Oregon State University (2014)

Avian Conservation and Management, Department of Fisheries and Wildlife, Oregon State University (2013).

Sensory Ecology, Department of Ecology, Evolution, and Marine Biology, University of California, Santa Barbara (2006).

Wildlife and Human Interactions, Division of Biology, Kansas State University (2002).

Control of Exotic Wildlife in North America, Division of Biology, Kansas State University (2001).

Introduction to Natural Resources Management, Department of Forestry, Horticulture, and Recreational Resources, Kansas State University (1998).

MENTORING AND ADVISING

Dr. Sara Galbraith, Postdoctoral Research Associate, Oregon State University, 2016-present.

Dr. Joseph Northrup, Postdoctoral Research Associate, Oregon State University (co-advised with M. Betts), 2016-2017.

Janell LaJoie, M.S. student, Oregon State University (co-advised with L. Gaino), 2015-present.

Amy Comstock, M.S. student, Oregon State University (co-advised with J. Hagar), 2014-2017.

Kristin Jones, M.S. student, Oregon State University (co-advised with M. Betts), 2013-2015.

Braelei Hardt, undergraduate honors student, Oregon State University, 2013-2017.

Jonah Powell, undergraduate honors student, Oregon State University, 2014-2015.

Codey Mathis, undergraduate independent study student, Oregon State University, 2013-2015.

Gretchen Newberry, undergraduate independent study student, Oregon State University, 2010-2012.

Niels Garlick, undergraduate independent study student, Oregon State University, 2012-2013.

Melissa Blundell, undergraduate independent study student, University of California, Santa Barbara, 2007-2008.

EDITORSHIPS

Associate Editor, *The Auk: Ornithological Advances* (2014-present)

MANUSCRIPT REVIEWS FOR PEER-REVIEWED JOURNALS

American Naturalist, Animal Behaviour, Auk, Behavioral Ecology, Behavioral Ecology and Sociobiology, Biological Conservation, Biological Journal of the Linnean Society, Biology Letters, Canadian Journal of Zoology, Condor, Conservation Biology, Diversity and Distributions, Ecological Applications, Ecosphere, Ethology, Evolution, Functional Ecology, Great Plains Research, Journal of Animal Ecology, Journal of Avian Biology, Journal of Comparative Psychology, Journal of Ethology, Journal of Evolutionary Biology, Journal of Experimental Biology, Journal of Field Ornithology, Journal of Human-Wildlife Interactions, Journal of Interpretation Research, Journal of Wildlife Management, Landscape Ecology, Natural Areas Journal, Oecologia, PLOS ONE, The Prairie Naturalist, Proceedings of the Royal Society B: Biological Sciences, Western North American Naturalist, Wildlife Society Bulletin, Wilson Journal of Ornithology.

PROPOSAL REVIEWS FOR COMPETITIVE GRANTS

Biotechnology and Biological Sciences Research Council (UK), Iowa Academy of Science

PROFESSIONAL SERVICE

Oregon Bee Project Advisory Committee (2017-present)

Marbled Murrelet Technical Committee, Marine Subcommittee; Pacific Seabird Group (2017-present)

Forest Biodiversity Research Network Leadership Committee, Oregon State University (2016-present)

Elective Councilor, American Ornithologists' Union (2014-2017)

Scientific Program Committee, 135th meeting of the American Ornithologists' Union (2016-2017)

North American Ornithological Conference Workshops and Training Opportunities Committee (2015-2016)

College Forests Recreation Planning Committee, College of Forestry, Oregon State University (2014-2015)

Hiring Committee for Associate Dean, Graduate School, Oregon State University (2014)

Board Member, Oregon State University Postdoctoral Association (2013-2014)

Special Affairs Committee: Historical Committee, American Ornithologists' Union (*Chair*, 2012-2014)

North American Ornithological Conference Student Presentation Awards Committee (2012)

Publications Committee, American Ornithologists' Union (2004-2011)

Publications Task Force, American Ornithologists' Union (2008-2009)

Early Professionals Committee, American Ornithologists' Union (2008-09)

Student Affairs Committee, American Ornithologists' Union (2004-07; *Chair*, 2005-07)

Student Affairs Committee, 4th North American Ornithological Conference (2005-06, *co-Chair*)

Graduate Student Advisory Committee, Dept. of Ecology, Evolution, and Marine Biology, University of California, Santa Barbara, CA (2005-07)

Graduate Student Symposium Committee, Dept. of Ecology, Evolution, and Marine Biology, University of California, Santa Barbara, CA (2005-06)

Local planning committee for 123rd annual meeting of American Ornithologists' Union (2003-05)

Professional Awards Task Force, American Ornithologists' Union (2003-04)

PROFESSIONAL SOCIETIES

American Ornithologists' Union (1995-present)
Animal Behavior Society (2003-present)
International Society for Behavioral Ecology (2008-present)
The Wildlife Society (1999-present)

OUTREACH ACTIVITIES

Chair. “Willamette Valley Bird Symposium”, Oregon State University. Developed, planned, and organized a day-long symposium that brought together professionals, students of all ages, and amateurs to celebrate birds and bird research (2014-present).

Guest instructor, “Louis Stokes Alliance for Minority Participation Bridge Program”, College of Forestry, Oregon State University. Introduced underrepresented freshman students to methodological techniques used by biologists to track birds in an experiential learning setting (2016-present).

Panel member, “Undergraduate Research Opportunities”, STEM Leaders Program, Oregon State University. Provided an overview of undergraduate student research and the manner by which students can interact with faculty through mentored research opportunities (2017).

Panel member, “Selecting a Thesis Mentor”, Honors College, Oregon State University. Provided overview of faculty expectations for students planning to undertake thesis research in the Honors College (2017).

Guest instructor, “Explore Your Forests”, College of Forestry, Oregon State University. Introduced high school students to methodological techniques used by wildlife biologists to track animals in an experiential learning setting at the McDonald-Dunn Forest (2016).

Panel member, “Financing your Education”, Graduate School, Oregon State University. Workshop held approximately 3 times/year for new graduate students to discuss how to fund graduate research through student grant opportunities (2014-2016).

Organizer and Moderator, “Student Success Workshops”, OSU Postdoctoral Association and Graduate School, Oregon State University. Developed, organized, and moderated panel discussions on professional development topics for graduate students (2013-2014).

Project mentor, “Capstone Design Project,” School of Mechanical, Industrial, and Manufacturing Engineering, Oregon State University. Worked with student team to design and implement nestbox heating technology for assessing potential climate change impacts on birds (2013).

Panel member, “Developing a Productive Relationship with your Mentor”, Graduate School, Oregon State University. Panel was held during orientation for incoming graduate students to provide insights regarding important steps to take to avoid pitfalls and enhance the student-mentor relationship during graduate school (2013).

Guest instructor, STEM Academy, College of Forestry, Oregon State University. Introduced high school students to field ornithology through experiential learning of the techniques used by wildlife biologists in a field setting at the McDonald-Dunn Forest (2013).

Tour Leader, Oregon State University and Oregon Forest Resources Institute. Co-led tour to discuss early seral forest management as wildlife habitat for professional biologists, forests, small woodlot owners, and interested public (2013).

Scientific consultant, Harvard Museum of Natural History, Harvard University. Served as primary scientific consultant for nest display exhibit featuring brood parasitism in the Brown-

headed Cowbird, contributing to the information contained in the exhibit display and providing personal photographs of cowbirds and hosts (2007).

Guest instructor, Strategies for Ecology Education, Development, and Sustainability (SEEDS) Program, Ecological Society of America, Kansas State University. Introduced underrepresented undergraduates to the ornithological techniques used to study the behavioral ecology of tallgrass prairie birds in a hands-on format via classroom lecture and field trip to Konza Prairie Biological Station (2006).

Guest instructor, Kids in Nature (KIN) Program, Museum of Systematics and Ecology, University of California, Santa Barbara. Introduced elementary students in the Santa Barbara area to principles of vertebrate ecology and evolution via hands-on laboratory demonstrations focused on avian biology in the Museum of Systematics and Ecology (2005).

Guest instructor, Kids do Ecology Program, National Center for Ecological Analysis and Synthesis. Led field trips, helped students collect insects, and helped elementary students identify insects for project focused on understanding local insect diversity (2003).

Guest instructor, Kansas State University. Prepared local high school students for high school competition to test general knowledge of avian anatomy, ecology, and identification of birds (2000-2001).