

# James William Rivers

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## EDUCATION AND PROFESSIONAL PREPARATION

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2009-2014: Postdoctoral Researcher, Oregon State University, Corvallis, OR  
2002-2008: Ph.D. in Biology, University of California, Santa Barbara, CA  
1997-1999: M.S. in Biology, Kansas State University, Manhattan, KS  
1992-1996: B.S. (Honors) in Wildlife Conservation, University of Massachusetts, Amherst, MA

## RESEARCH INTERESTS

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Behavioral ecology, especially offspring begging and family conflict  
Ecology and conservation of native bees  
Ecology and evolution of parasitism, especially avian brood parasitism  
Interaction of forest wildlife and silvicultural practices  
Physiological ecology

## ACADEMIC AND RESEARCH-RELATED POSITIONS

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2015-present *Assistant Professor, Senior Research*, Department of Forest Ecosystems & Society, 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 Researcher*, Department of Forest Ecosystems & Society, Oregon State University, Corvallis, OR  
2010-2012 *Instructor*, Dept. of Fisheries and Wildlife, 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  
2000 *Research Associate*, University of Canterbury, Christchurch, New Zealand  
1997-1999 *Research and Teaching Assistant*, Kansas State University, Manhattan, KS

**REFEREED JOURNAL ARTICLES**

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- Rivers, J. W.**, and B. D. Peer. 2016. Relatedness constrains virulence in an obligate avian brood parasite. *Ornithological Science* 15:xx-xx.
- 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

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- Rivers, J. W.**, D. R. Ardia, G. N. Newberry, and C. J. Schwarz. Success despite the stress: violet-green swallows increase glucocorticoids and maintain reproductive output following experimental increases in flight costs. *Functional Ecology*.

## MANUSCRIPTS IN PREPARATION

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**Rivers, J. W.**, M. G. Betts, A. J. Kroll, C. J. Schwarz, and J. Verschuyf. Demographic response of an early successional songbird along a gradient of herbicide intensity in regenerating forests. For *Ecological Applications*.

**Rivers, J. W.**, M. G. Betts, C. L. Mathis, and A. R. Moldenke. Evaluating the influence of removal of forest harvest residuals on bee diversity and pollination services. For *Journal of Insect Conservation*.

Jones, K. N., M. G. Betts, and **J. W. Rivers**. Intensive forest management has a greater impact than climate on reproductive output in a cavity-nesting songbird. For *Canadian Journal of Forestry*.

Jones, K. N., **J. W. Rivers**, and M. G. Betts. Intensive forest management exerts weak and variable influences on microclimate in early-seral forest. For *Forest Ecology and Management*.

## OTHER PROFESSIONAL PUBLICATIONS

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**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.

## EXTERNAL COMPETITIVE RESEARCH GRANTS

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Betts, M. G., **J. W. Rivers**, J. P. Verschuyf, G. S. Latta, J. A. Hatten, and C. A. Montgomery. 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.

- 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.
- 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.
- Rivers, J. W.** 2007. Determining the extent to which nestmate relatedness influences the begging intensity of a generalist brood parasite. *Los Angeles Audubon Society*. Amount: \$2,500.
- 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.
- Rivers, J. W.** 2006. Is the begging behavior of a generalist brood parasite influenced by the number of host nestmates? *American Museum of Natural History*. Amount: \$2,450.
- Rivers, J. W.** 2006. Assessing nestling behavioral adaptations in a recently evolved, generalist brood parasite. *Los Angeles Audubon Society*. Amount: \$2,500.
- Rivers, J. W.** 2005. Assessing the extent and function of flexible begging strategies in a generalist brood parasite. *Animal Behaviour Society*. Amount: \$500.
- Rivers, J. W.** 2005. Assessing whether plasticity in begging behavior is an adaptation for brood parasitism in a generalist brood parasite. *American Museum of Natural History*. Amount: \$2,450.
- Rivers, J. W.** 2003. Assessing the factors that influence begging intensity in a generalist brood parasite. *American Ornithologists' Union*. Amount: \$1,800.
- Rivers, J. W.** 2003. An investigation of the proximate factors that influence begging behavior in the Brown-headed Cowbird. *American Museum of Natural History*. Amount: \$2,425.
- Rivers, J. W.** 2003. Assessing the proximate factors that influence begging intensity in a generalist brood parasite. *Los Angeles Audubon Society*. Amount: \$2,500.
- Rivers, J. W.** 2003. An investigation of the proximate factors that influence begging behavior in the Brown-headed Cowbird. *Sigma Xi*. Award: \$1,000.
- Rivers, J. W.** 2002. An investigation of the proximate factors that influence begging behavior in nestling Brown-headed Cowbirds. *Cooper Ornithological Society*. Amount: \$1,200.
- Rivers, J. W.** 1999. Use of invertebrates by migratory shorebirds in farmed wetlands: an empirical approach. *Kansas Ornithological Society*. Amount: \$200.

## INTERNAL COMPETITIVE RESEARCH GRANTS

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**Rivers, J. W.**, and J. H. Cane. 2016-2017. Assessing pollinator response to natural and anthropogenic disturbances in mixed-conifer forest. *Forest Research Laboratory Fish and Wildlife Habitat in Managed Forests Research Program*. Amount: \$99,712.

**Rivers, J. W.**, and J. C. Hagar. 2015-2016. Revisiting the CFIRP: Assessing long-term ecological value and characteristics of snags created for wildlife. *Forest Research Laboratory Fish and Wildlife Habitat in Managed Forests Research Program*. Amount: \$57,818.

Betts, M. G., J. P. Verschuyf, M. Needham, D. Maguire, D. Mainwaring, T. Stokely, G. S. Latta, B. Phalan, **J. W. Rivers**, S. Fitzgerald, and J. A. Hatten. 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., and **J. W. Rivers**. 2014-2015. Assessing the demographic response of early seral songbird species to intensive forest management. *Forest Research Laboratory Fish and Wildlife Habitat in Managed Forests Research Program*. 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.

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.

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.

**Rivers, J. W.** 2006. Assessing whether Brown-headed Cowbird (*Molothrus ater*) begging behaviors are uniquely adapted for brood parasitism. *Graduate Division, University of California, Santa Barbara*. Amount: \$1,000.

**Rivers, J. W.** 1996. An investigation of song variation in the Hermit Thrush. *Department of Forestry and Wildlife, University of Massachusetts*. Amount: \$100.

## NON-COMPETITIVE RESEARCH GRANTS

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**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. *Dean's 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.**, M. G. Betts, S. K. Nelson, and D. D. Roby. 2015-2021. 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. 2015-2016 budget allocation: \$3,500,000.

**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

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**Vice Provost's Outreach and Engagement Award for 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. 4<sup>th</sup> 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).

## **FELLOWSHIPS AND TRAVEL AWARDS**

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**Postdoctoral Researcher Travel Award**, American Ornithologists' Union, \$300 (2012).

**Postdoctoral Researcher Travel Award**, American Ornithologists' Union, \$450 (2010).

**Postdoctoral Researcher Travel Award**, American Ornithologists' Union, \$535 (2009).

**Dissertation Fellowship**, Graduate Division, University of California, Santa Barbara, \$7000 (2008).

**International Behavioral Ecology Congress Travel Award**, International Society for Behavioral Ecology, \$500 (2008).

**Graduate Student Travel Grant**, Department of Ecology, Evolution, and Marine Biology, University of California, Santa Barbara, \$500 (2008).

**Doctoral Student Travel Grant**, Graduate Division, University of California, Santa Barbara, \$1400 (2007).

**Dean's Fellowship**, Graduate Division, University of California, Santa Barbara, \$24,400 (2007).

**Charles A. Storke II Graduate Fellowship**, Department of Ecology, Evolution, and Marine Biology, University of California, Santa Barbara, \$4200 (2007).

**Student Travel Award**, Wilson Ornithological Society, \$350 (2007).

**Graduate Opportunity Fellowship**, Graduate Division, University of California, Santa Barbara, \$24,400 (2006).

**Graduate Student Fee Fellowship**, Department of Ecology, Evolution, and Marine Biology, University of California, Santa Barbara, \$3000 (2006).

**North American Ornithological Conference Travel Award**, American Ornithologists' Union, \$400 (2006).

**Philip & Aida Siff Educational Foundation Fellowship**, Philip & Aida Siff Educational Foundation, Santa Barbara, CA, \$5000 (2005).

**Block Grant Fellowship**, Department of Ecology, Evolution, and Marine Biology, University of California, Santa Barbara, \$5000 (2005).

**Marcia Brady Tucker Travel Award**, American Ornithologists' Union, \$740 (2004).

**Graduate Fee Fellowships**, Department of Ecology, Evolution, and Marine Biology, University of California, Santa Barbara, \$4550 (2003-2005).

**Regents Fellowship**, Department of Ecology, Evolution, and Marine Biology, University of California, Santa Barbara, \$32,600 (2002).

## PRESENTATIONS AT SCIENTIFIC CONFERENCES

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**Rivers, J. W.**, M. G. Betts, A. J. Kroll, C. J. Schwarz, and J. Verschuyl. 2015. Oral presentation at the 133<sup>rd</sup> meeting of the American Ornithologists' Union, Norman, OK.

**Rivers, J. W.**, J. Verschuyl, A. J. Kroll, and M. G. Betts. 2015. Oral presentation at the Oregon Chapter of The Wildlife Society, Eugene, OR.

**Rivers, J. W.**, J. Verschuyl, A. J. Kroll, and M. G. Betts. 2015. Oral presentation at the Washington Chapter of The Wildlife Society, Grand Mound, WA.

**Rivers, J. W.**, J. Verschuyl, A. J. Kroll, and M. G. Betts. 2015. Oral presentation at the Washington Chapter of The Wildlife Society, Grand Mound, WA.

Mathis, C. L., **J. W. Rivers**, and M. G. Betts. 2015. Poster presentation at the Oregon Chapter of The Wildlife Society, Eugene, OR.

Hardt, B., **J. W. Rivers**, D. R. Ardia, and M. J. Bashaw. 2015. Poster presentation at 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. Oral presentation at day-long symposium, Wildlife in Managed Forests: Songbirds and Early Seral Habitats of the Oregon Forests Research Institute, Albany, OR.

J. Verschuyl, M. G. Betts, **J. W. Rivers**, J. Giovanini, and A. J. Kroll. 2014. Oral presentation at day-long symposium, Wildlife in Managed Forests: Songbirds and Early Seral Habitats of the Oregon Forests Research Institute, Albany, OR.

**Rivers, J. W.**, and D. A. Ardia. 2014. Oral presentation at the 30<sup>th</sup> annual meeting of the Wild Bird Feeding Industry, Naples, FL.

**Rivers, J. W.**, and M. G. Betts. 2014. Oral presentation at the 132<sup>nd</sup> meeting of the American Ornithologists' Union, Estes Park, CO.

Jones, K. N., J. W. Rivers, and M. B. Betts. 2014. Poster presentation at the 2014 at the 132<sup>nd</sup> meeting of the American Ornithologists' Union, Estes Park, CO.

**Rivers, J. W.**, J. Verschuyl, A. J. Kroll, and M. G. Betts. 2014. Oral presentation at the 2014 Annual Meeting of the Oregon Chapter of The Wildlife Society, Bend, OR.

- Verschuyf, J., M. G. Betts, K. Jones, **J. W. Rivers**, and A. J. Kroll. 2014. Oral presentation at the 2014 Annual Meeting of the Washington Chapter of The Wildlife Society, Pasco, WA.
- Rivers, J. W.**, J. Verschuyf, A. J. Kroll, and M. G. Betts. 2013. 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. Oral presentation at the 131<sup>st</sup> meeting of the American Ornithologists' Union, Chicago, IL.
- Rothstein, S. I., B. D. Peer, **J. W. Rivers**, and R. C. Fleischer. 2013. Oral presentation at the 131<sup>st</sup> meeting of the American Ornithologists' Union, Chicago, IL.
- Peer, B. D., **J. W. Rivers**, and S. I. Rothstein. 2012. Oral presentation at the 1<sup>st</sup> International Symposium on Avian Brood Parasitism, Hainan, China.
- J. W. Rivers**, G. Newberry, and D. R. Ardia. 2012. Poster presentation at the 5<sup>th</sup> North American Ornithological Conference, Vancouver, British Columbia.
- Newberry, G. N., and **J. W. Rivers**. 2012. Poster presentation at the 5<sup>th</sup> 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. 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. Poster presentation at the 128<sup>th</sup> meeting of the American Ornithologists' Union, San Diego, CA.
- Vesely, D. G., M. G. Betts, D. Smith, and **J. W. Rivers**. 2010. Oral presentation at the 7<sup>th</sup> 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. Oral presentation at the 127<sup>th</sup> meeting of the American Ornithologists' Union, Philadelphia, PA.
- Mora, M. A., B. Brattin, C. Baxter, and **J. W. Rivers**. 2009. Poster presentation at the 19<sup>th</sup> meeting of the Society of Environmental Toxicology and Chemistry, Göteborg, Sweden.
- Rivers, J. W.**, B. D. Peer, and S. I. Rothstein. 2008. Poster presentation at the 12<sup>th</sup> International Behavioral Ecology Congress, Ithaca, NY.
- Lüpold, S., **J. W. Rivers**, G. M. Linz, D. F. Westneat, and T. R. Birkhead. 2008. Oral presentation at the 12<sup>th</sup> International Behavioral Ecology Congress, Ithaca, NY.
- Peer, B. D., R. G. Harper, **J. W. Rivers**, and J. Frick. 2008. Poster presentation at the 12<sup>th</sup> International Behavioral Ecology Congress, Ithaca, NY.
- Rivers, J. W.**, B. D. Peer, and S. I. Rothstein. 2008. Oral presentation at the 126<sup>th</sup> meeting of the American Ornithologists' Union, Portland, OR.

- Rivers, J. W.**, W. E Jensen, K. L. Kosciuch, and S. I. Rothstein. 2008. Oral presentation at the 126<sup>th</sup> meeting of the American Ornithologists' Union, Portland, OR.
- Blundell, M. A., **J. W. Rivers**, and S. I. Rothstein. 2008. Oral presentation at the 126<sup>th</sup> meeting of the American Ornithologists' Union, Portland, OR.
- Blundell, M. A., **J. W. Rivers**, and S. I. Rothstein. 2008. Poster presentation at the 35<sup>th</sup> 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. Oral presentation at the 4<sup>th</sup> 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. Poster presentation at the 4<sup>th</sup> Australasian Ornithological Conference, Perth, Australia.
- Rivers, J. W.**, W. E Jensen, K. L. Kosciuch, and S. I. Rothstein. 2007. Poster presentation at the 125<sup>th</sup> meeting of the American Ornithologists' Union, Laramie, WY.
- Kosciuch, K. L., **J. W. Rivers**, and B. K. Sandercock. 2007. Poster presentation at the 125<sup>th</sup> 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. Oral presentation at the 125<sup>th</sup> meeting of the American Ornithologists' Union, Laramie, WY.
- Rivers, J. W.** and S. I. Rothstein. 2007. Oral presentation at the 87<sup>th</sup> meeting of The Wilson Ornithological Society, Boston, MA.
- Kosciuch, K. L., **J. W. Rivers**, and B. K. Sandercock. 2007. Poster presentation at the 87<sup>th</sup> meeting of The Wilson Ornithological Society, Boston, MA.
- Rivers, J. W.**, W. E Jensen, K. L. Kosciuch, and S. I. Rothstein. 2007. Poster presentation at the 125<sup>th</sup> Kansas Ornithological Society, Manhattan, KS.
- Rivers, J. W.**, and S. I. Rothstein. 2006. Oral presentation at the 43<sup>rd</sup> meeting of the Animal Behavior Society, Snowbird, UT.
- Rivers, J. W.** and S. I. Rothstein. 2006. Oral presentation at the 4<sup>th</sup> 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. Poster presentation at the 4<sup>th</sup> North American Ornithological Conference, Veracruz, Mexico.
- Rivers, J. W.**, and S. I. Rothstein. 2005. Poster presentation at the 123<sup>rd</sup> meeting of the American Ornithologists' Union, Santa Barbara, CA.
- Rivers, J. W.**, S. Young, E. Gonzalez, and R. C. Fleischer. 2005. Poster presentation at the annual Southern California Animal Behavior Symposium, Riverside, CA.

- Rivers, J. W.** 2004. Oral presentation at the 122<sup>nd</sup> meeting of the American Ornithologists' Union, Quebec City, Quebec, Canada.
- Rivers, J. W.**, S. Young, E. Gonzalez, and R. C. Fleischer. 2004. Poster presentation at the 122<sup>nd</sup> meeting of the American Ornithologists' Union, Quebec City, Quebec, Canada.
- Rivers, J. W.** 2003. Oral presentation at the 121<sup>st</sup> meeting of the American Ornithologists' Union, Urbana-Champaign, IL.
- Rivers, J. W.**, M. D. Smith, J. S. Pontius, P. S. Gipson, and D. P. Althoff. 2003. Poster presentation at the 88<sup>th</sup> Meeting of the Ecological Society of America, Savannah, GA.
- Rivers, J. W.**, D. P. Althoff, P. S. Gipson, and J. S. Pontius. 2002. Oral presentation at the 3<sup>rd</sup> North American Ornithological Conference, New Orleans, LA.
- Rivers, J. W.**, D. P. Althoff, P. S. Gipson, J. S. Pontius, and A. Abuzeineh. 2001. Oral presentation at the 63<sup>rd</sup> Midwest Fish and Wildlife Conference, Des Moines, IA.
- Rivers, J. W.** and J. V. Briskie. 2001. Oral presentation at the annual meeting of the Kansas Ornithological Society, Wichita, KS.
- Rivers, J. W.** and J. V. Briskie. 2001. Oral presentation at the 82<sup>nd</sup> 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. Poster presentation at the 71<sup>st</sup> 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. Oral presentation at the 10<sup>th</sup> Integrated Training Area Management Conference Nashville, TN.
- Althoff, D. P, **J. W. Rivers**, P. S. Gipson, P. B. Woodford, and J. S. Pontius. 2001. Oral presentation at the 8<sup>th</sup> Annual Conference of The Wildlife Society, Reno/Tahoe, NV.
- Rivers, J. W.**, T. T. Cable, and P. S. Gipson. 2000. 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. Oral presentation at the 7<sup>th</sup> Annual Conference of The Wildlife Society, Nashville, TN.
- Rivers, J. W.**, T. T. Cable, and P. S. Gipson. 2000. Poster presentation at the 8<sup>th</sup> International Symposium on Society and Resource Management, Bellingham, WA.
- Rivers, J. W.**, M. R. Rougès, and T. G. Smith. 1999. 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. Oral presentation at the Kansas Ornithological Society, Lawrence, KS.
- Rivers, J. W.** 1997. Oral presentation at the Kansas Ornithological Society, Wichita, KS.

## SPECIALIZED TRAINING

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***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.

## INVITED SEMINARS

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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)

## TEACHING EXPERIENCE (INSTRUCTOR OF RECORD)

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**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.

## TEACHING EXPERIENCE (TEACHING ASSISTANT)

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*Sensory Ecology*, Univ. of California (laboratory, 2006)  
*Behavioral Ecology and Ethology*, Univ. of California (laboratory 2003, 2005)  
*Laboratory and Fieldwork in Vertebrate Biology*, Univ. of California (laboratory, 2002-2005)  
*Physiological Adaptations of Animals*, Kansas State University (laboratory, 1999)  
*Ornithology*, Kansas State University (laboratory and curatorial assistant, 1999)  
*Organismic Biology*, Kansas State University (laboratory, 1998)  
*Principles of Biology*, Kansas State University (laboratory, 1997-1998)  
*Environment and Society*, University of Massachusetts (discussion section, 1996)  
*Carnivore Ecology*, University of Massachusetts (discussion section, 1994)

## GUEST LECTURER

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*Posing Research Questions*, Department of Forest Ecosystems and Society, Oregon State University (2014-2015).  
*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).

## **SEMINARS AND COURSES ON COLLEGE AND UNIVERSITY TEACHING**

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*Success in the College Classroom*. Tem-length seminar course focused on exploring and implementing foundations of effective university; offered by Dept. of Microbiology, Oregon State University (2011).

*Examining How We Include Diversity: It's About More Than Content and it Matters For Student Learning in All Courses*. Workshop sponsored by The Center for Teaching and Learning, Oregon State University (2011).

*15 Survival Strategies for Instructors in Higher Education*. Workshop sponsored by The Center for Teaching and Learning, Oregon State University (2010).

*Discover Your Teaching Philosophy*. Workshop sponsored by The Center for Teaching and Learning, Oregon State University (2010).

*Improving Teaching and Learning Through Assessment*. Workshop sponsored by The Center for Teaching and Learning, Oregon State University (2010).

*Engaging Learners Through a Living Course*. Workshop sponsored by The Center for Teaching and Learning, Oregon State University (2010).

## **EDITORSHIPS**

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

## **MANUSCRIPT REVIEWS FOR PEER-REVIEWED JOURNALS**

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*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 Experimental Biology*, *Journal of Field Ornithology*, *Journal of Interpretation Research*, *Journal of Wildlife Management*, *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**

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

## **COMMITTEE SERVICE**

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

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

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

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, 4<sup>th</sup> 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 123<sup>rd</sup> annual meeting of American Ornithologists' Union (2003-05)

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

## **WORKSHOPS/SYMPOSIA ORGANIZED FOR SCIENTIFIC CONFERENCES**

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

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

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

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

## PROFESSIONAL SOCIETIES

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

## MENTORING AND ADVISING

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**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-present.

**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-present.

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

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

**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.

## OUTREACH ACTIVITIES

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**Instructor**, “Explores 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).

**Co-organizer**. “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).

**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-present).

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

**Project mentor**, “Capstone Design Project,” School of Mechanical, Industrial, and Manufacturing Engineering, Oregon State University. Worked with student design team to design and implement nestbox heating technology to be used to assess potential climate change impacts on wildlife (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).

**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).

**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).

**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).

**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).

**Special Instructor of Avian Anatomy, Ecology, and Identification**, Kansas State University. Prepared Manhattan, KS area high school students for local high school competition to test general knowledge and identification of birds (2000-2001).

## REFERENCES

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**Dr. Matthew G. Betts, Associate Professor**  
Department of Forest Ecosystems and Society  
321 Richardson Hall  
Oregon State University, Corvallis, OR 97331  
Phone: +1 541 737-3841  
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**Dr. Robert R. Warner, Professor Emeritus**  
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