**Courtney J. Conway**

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**Education**

B.S., Wildlife Biology, Colorado State University, Ft. Collins, CO, 1985

M.S., Zoology and Physiology, University of Wyoming, Laramie, WY, 1990

Ph.D., Organismal Biology & Ecology, University of Montana, Missoula, MT, 1998

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**Professional Employment**

**Professor and Director**, Idaho Cooperative Fish & Wildlife Research Unit, Dept of Fish & Wildlife Sciences, University of Idaho, Moscow, ID (Jul. 2011-present).

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**Peer-Reviewed Publications** *(****\*****graduate students &* ***\*\**** *undergrads whom I mentored)*

Harrity\*, E. J., L. E. Michael, and C. J. Conway. In Press. Sexual dimorphism in morphology and plumage of endangered Yuma Ridgway’s Rails: a model for documenting sex of captured rails. *Journal of Fish and Wildlife Management*, in press.

Stevens†, B. S., and C. J. Conway. In Press. Mapping habitat quality and threats for eastern black rails. *Waterbirds*, in press.

Goldberg\*, A. R., C. J. Conway, and D. E. Biggins. 2021. Effects of experimental flea removal and plague vaccine treatments on survival of northern Idaho ground squirrels and two coexisting sciurids. *Global Ecology and Conservation* 26:e01489.

Lundblad\*, C.G., and C. J. Conway. 2021. Intraspecific variation in incubation behaviours along a latitudinal gradient is driven by nest microclimate and selection on neonate quality. *Functional Ecology* 35:in press.

Lundblad\*, C.G., and C. J. Conway. 2021. Ashmole’s hypothesis and the latitudinal gradient in clutch size. *Biological Reviews*, in press.

Dillon\*, K. G., & C. J. Conway. 2021. Habitat heterogeneity, temperature, and primary productivity drive elevational gradients in avian species diversity. *Ecology and Evolution*, in press.

Goldberg\*, A. R., and C. J. Conway. 2021. Hibernation behavior of a federally-threatened ground squirrel: climate change and habitat selection implications. *Journal of Mammalogy*, in press.

Lundblad\*, C.G., and C. J. Conway. 2021. Nest microclimate and limits to egg viability explain avian life-history variation across latitudinal gradients. *Ecology*, in press.

Lundblad\*, C.G., C. J. Conway, K. Cruz-McDonnell, D. Doublet, M. J. Desmond, C J. Navis, and K. Ongman. 2021. Long-term population fluctuations of a burrowing owl population on Kirtland Air Force Base, New Mexico. *Journal of Raptor Research* 55:in press.

Riley\*, I. P., C. J. Conway, B. S. Stevens†, and S. Roberts. 2021. Survival of greater sage-grouse broods: survey method affects disturbance and age-specific detection probability. *Journal of Field Ornithology* 92:88-102.

Riley\*, I. P., C. J. Conway, B. S. Stevens†, and S. Roberts. 2021. Aural and visual detection of greater sage-grouse leks: Implications for population trend estimates. *Journal of Wildlife Management* 85:508-519.

Helmstetter\*\*, N. A., C. J. Conway, B. S. Stevens†, and A. R. Goldberg\*. 2021. Balancing transferability and complexity of species distribution models for rare species conservation. *Diversity and Distributions* 27:95-108.

Connelly, J. W., and C. J. Conway. 2021. Managing wildlife at landscape scales. Pages 143-157 in Wildlife Management and Landscapes: Principles and Applications (W.F. Porter, C.J. Parent, R.A. Stewart, and D.M. Williams, eds.). Johns Hopkins University Press in affiliation with The Wildlife Society, Baltimore, MD, USA.

Garton, E. O., J. L. Aycrigg, C. J. Conway, and J. S. Horne. 2020. Research and experimental design. Pages 1-39 in The Wildlife Techniques Manual, Volume 1: Research, 8th Edition (N. J. Silvy, ed.). Johns Hopkins University Press, Baltimore, MD.

Eddleman, W. R., and C. J. Conway. 2020. Ridgway’s Rail (*Rallus obsoletus*), version 1.0. The Birds of the World. (P.G. Rodewald, ed.). Cornell Lab of Ornithology, Ithaca, NY, USA.

Conway, C. J., C. P. Nadeau\*\*, and M. A. Conway. 2020. Broadcasting regional call dialects has little influence on the effectiveness of call-broadcast surveys for marsh birds. *Wetlands* 40:2055-2059.

Dornak†, L. L., J. L. Aycrigg, J. Sauer, and C. J. Conway. 2020. Assessing the efficacy of protected and multiple-use lands for bird conservation in the U.S. *PLOS One* 5:e0239184.

Macías-Duarte\*, A., C. J. Conway, and M. Culver. 2020. Agriculture creates subtle genetic structure among migratory and non-migratory populations of Burrowing Owls throughout North America. *Ecology and Evolution* 2020;10:10697–10708.

Goldberg\*, A. R., C. J. Conway, D. Evans Mack, and G. Burak. 2020. Winter versus summer habitat selection in a threatened ground squirrel. *Journal of Wildlife Management* 84:1548–1559.

Lachman\*, D. A., C. J. Conway, K. T. Vierling, and T. Matthews. 2020. Drones provide a better method to find nests and estimate nest survival for colonial waterbirds: a demonstration with western grebes. *Wetlands Ecology and Management* 28:837–845.

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Riley\*, I. P., and C. J. Conway. 2020. Methods for estimating vital rates of greater sage-grouse broods: A review. *Wildlife Biology* 2020:wlb.00700.

Harrity\*, E.J., B.S. Stevens†, and C.J. Conway. 2020. Keeping up with the times: mapping range-wide habitat suitability for endangered species in a changing environment. *Biological Conservation* 250:108734.

Goldberg\*, A. R., C. J. Conway, D. Tank, K. R. Andrews, D. S. Gour, and L. Waits. 2020. Diet of a rare herbivore based on DNA metabarcoding of feces: selection, seasonality, and survival. *Ecology and Evolution* 2020;10:7627–7643.

Stevens†, B. S., and C. J. Conway. 2020. Mapping habitat suitability at range-wide scales: spatially-explicit distribution models to inform conservation and research for marsh birds. *Conservation Science and Practice* 2:e178.

Lundblad\*, C.G., and C. J. Conway. 2020. Testing four hypotheses to explain partial migration: balancing reproductive benefits with limits to fasting endurance. *Behavioral Ecology and Sociobiology* 74(2):26.

Goldberg\*, A. R., C. J. Conway, and D. E. Biggins. 2020. Flea sharing among sympatric rodent hosts: implications for potential plague effects on a threatened sciurid. *Ecosphere* 11(2):e03033.

Lundblad\*, C.G., and C. J. Conway. 2020. Variation in selective regimes drives intraspecific variation in life history traits and migratory behavior along an elevation gradient. *Journal of Animal Ecology* 89:397-411.

Harrity\*, E. J., and C. J. Conway. 2020. Noose carpets: a novel method to capture rails. *Wildlife Society Bulletin* 44:15-22.

Stevens†, B. S., and C. J. Conway. 2020. Predictive multi-scale occupancy models at range-wide extents: effects of habitat and human disturbance on distributions of wetland birds. *Diversity and Distributions* 26:34-48.

Stevens†, B. S., and C. J. Conway. 2019. Identifying important military installations for continental-scale conservation of marsh bird breeding habitat. *Journal of Environmental Management* 252:e109664.

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Harrity\*, E. J., and C. J. Conway. 2019. Novel ectoparasite infestation on Yuma Ridgway’s Rails (*Rallus obsoletus yumanensis*). *Wilson Journal of Ornithology* 131:139-146.

Macías-Duarte\*, A., C. J. Conway, G.L. Holroyd, H. E. Valdez-Gómez, and M. Culver. 2019. Genetic variation among island and continental populations of Burrowing Owl (*Athene cunicularia*) subspecies in North America. *Journal of Raptor Research* 53:127-133.

Conway, C.J. 2018. Burrowing Owls: happy urbanite or disgruntled tenant? Chapter 12 in Urban Raptors: Ecology and Conservation of Birds of Prey in Cities (C. Boal and C. Dykstra, eds.). Island Press, Washington, D.C.

Eddleman, W. R. and C. J. Conway. 2018. Ridgway's Rail (*Rallus obsoletus*), version 2.1. In The Birds of North America (P. G. Rodewald, Editor). Cornell Lab of Ornithology, Ithaca, NY, USA.

Hohbein\*\*, R., and C. J. Conway. 2018. Pitfall traps: a review of methods for estimating arthropod abundance. *Wildlife Society Bulletin* 42:597-606.

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Glisson, W. J., C. J. Conway, C. P. Nadeau\*\*, and K. L. Borgmann\*. 2017. Habitat models to predict wetland bird occupancy influenced by scale, anthropogenic disturbance, and imperfect detection. *Ecosphere* 8:1-18.

McCullough\*\*, J. M., and C. J. Conway. 2017. Breeding behavior of northern saw-whet owls in Oregon. *Northwest Science* 91:222-227.

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Glisson, W. J., C. J. Conway, C. P. Nadeau\*\*, K. L. Borgmann\*, and T. A. Laxson. 2015. Range-wide Wetland Associations of the King Rail: A Multi-scale Approach. *Wetlands* 35:577-587.

Nadeau\*\*, C. P., and C. J. Conway. 2015. Optimizing water depth for wetland-dependent wildlife could increase wetland restoration success, water efficiency, and water security. *Restoration Ecology* 23:292-300.

Dillon\*, K. G., and C. J. Conway. 2015. Elevational gradient in clutch size of red-faced warblers. *Journal of Field Ornithology* 86:163–172.

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Macías-Duarte\*, A., and C. J. Conway. 2015. Spatial patterns in hydrogen isotope ratios in feathers of burrowing owls from western North America. *The Auk: Ornithological Advances* 132:25-36. DOI: 10.1642/AUK-13-061.1

\*\*Nadeau, C. P., C. J. Conway, L. Piest, and B. Burger. 2013. Multi-species call-broadcast improved detection of endangered Yuma clapper rail compared to single-species call-broadcast. *Wetlands* 33:699-706.

\*Borgmann, K. L., C. J. Conway, and M. L. Morrison. 2013. Breeding phenology of birds: mechanisms underlying seasonal declines in the risk of nest predation. *PLoS ONE* 8(6): e65909.

Steidl, R. J., C. J. Conway, and A. Litt. 2013. Power to detect trends in abundance of secretive marsh birds: effects of species traits and sampling effort. *Journal of Wildlife Management* 77:445-453.

Rush, S.A., K. F. Gaines, W. R. Eddleman, and C. J. Conway. 2012. Clapper Rail (*Rallus longirostris*). In: The Birds of North America Online (ed. A. Poole). Cornell Lab of Ornithology, Ithaca, NY. http://bna.birds.cornell.edu/bna/species/340.

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Conway, M., C. J. Conway, and \*\*C. P. Nadeau. 2012. Intraspecific variation in reproductive traits of burrowing owls. *Journal of Ethology* 30:395-402.

\*\*Nadeau, C. P., and C. J. Conway. 2012. A field evaluation of distance estimation error during wetland-dependent bird surveys. *Wildlife Research* 39:311-320.

\*Steckler, S. E., and C. J. Conway. 2012. Frequent vocalizing is negatively associated with brood parasitism in a host of the Brown-headed Cowbird. *Condor* 114: 219-226.

\*Decker, K., C. J. Conway, J. J. Fontaine. 2012. Nest predation, food, and female age explain seasonal declines in clutch size. *Evolutionary Ecology* 26:683-699.

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***\****Smith, M. D., and C. J. Conway. 2011. Collection of mammal manure and other debris by nesting burrowing owls. *Journal of Raptor Research* 45:220-228.

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Holroyd, G., C. J. Conway, and H. Trefry. 2011. Breeding dispersal of a Burrowing Owl from Arizona to Saskatchewan. *Wilson Journal of Ornithology* 123:378-381.

***\****Boyle, W. A., C. J. Conway, and J. L. Bronstein. 2011. Why do some, but not all, tropical birds migrate? A comparative study of diet breadth and fruit preference. *Evolutionary Ecology* 25:219-236.

Conway, C. J., ***\*\****C. P. Nadeau, and L. Piest. 2010. Fire helps restore natural disturbance regime to benefit rare and endangered marsh birds endemic to Colorado River. *Ecological Applications* 20:2024-2035.

Kirkpatrick, C., and C. J. Conway. 2010. Nest predators of ground-nesting birds in montane forests of the Santa Catalina Mountains, Arizona. *Wilson Journal of Ornithology* 122:614-617.

***\*\****Bartok, N., and C. J. Conway. 2010. Factors affecting the presence of nesting burrowing owls in an agricultural landscape.*Journal of Raptor Research* 44:286-293.

***\**** Macías-Duarte, A., C. J. Conway, A. Munguia-Vega, and M. Culver. 2010. Novel microsatellite loci for the Burrowing Owl, Athene cunicularia. *Conservation Genetics Resources* 2:67-69.

***\*\****Robinson, G., C. J. Conway, C. Kirkpatrick, and D. D. LaRoche. 2010.  Response to Nestling Throat Ligatures by Three Songbirds.  *Wilson Journal of Ornithology* 122:806-809.

Conway, C. J., and ***\*\****C. P. Nadeau. 2010. The effects of conspecific and heterospecific call-broadcast on detection probability of marsh birds in North America. *Wetlands* 30:358-368.

Kirkpatrick, C., and C. J. Conway. 2010. Importance of montane riparian forest and influence of wildfire on nest-site selection of ground-nesting birds. *J. of Wildlife Management* 74:729-738.

Reitsma, L., M. Goodnow, M.T. Hallworth, and C. J. Conway. 2010. Canada Warbler (*Cardellina canadensis*), The Birds of North America Online (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology; Birds of North America Online: http://bna.birds.cornell.edu/bna/species/421.

***\****Garcia, V., and C. J. Conway. 2009. Use of video probe does not affect burrowing owl reproductive parameters or return rates. *Journal of Wildlife Management* 73:154-157.

***\****Decker, K. L., and C. J. Conway. 2009. Effects of an unseasonable snowstorm on Red-faced Warbler nesting success. *The Condor* 111:392-395.

***\****Ogonowski, M. S., and C. J. Conway. 2009.Migratory decisions in birds: extent of genetic versus environmental control. *Oecologia* 161:199-207.

***\****Garcia, V., and C. J. Conway. 2009. What constitutes a nesting attempt? Variation in criteria causes bias and hinders comparisons across studies. *The* *Auk* 126:31-40.

Kirkpatrick, C., C. J. Conway, and ***\*\****M. H. Ali. 2009. Sanitation of entire broods of dead nestlings may bias cause-specific nest failure rates. *Ibis* 151:207-211.

***\****Lantz, S. J., and C. J. Conway. 2009. Factors affecting daily nest survival of burrowing owls within black-tailed prairie dog colonies. *Journal of Wildlife Management* 73:232-241. (selected by the editor as the feature article for the issue’s cover).

Ballard, A. S., P. S. Balfour, and C. J. Conway. 2008. *Rana catasbeiana* (American bullfrog) predation. *Herpetological Review* 39:462.

Hutto, R. L., C. J. Conway, V. A. Saab, and J. R. Walters. 2008. What constitutes a natural fire regime? Insight from the ecology and distribution of coniferous forest birds in North America. *Fire Ecology* 4:115-132.

***\*\****Nadeau, C. P., C. J. Conway, B. S. Smith, and T. E. Lewis. 2008. Maximizing detection probability of wetland-dependent birds during point-count surveys in northwestern Florida. *Wilson Journal of Ornithology* 120:513-518.

Conway, C. J., ***\****V. Garcia, ***\****M. D. Smith, and ***\****K. Hughes. 2008. Factors affecting detection of burrowing owl nests during standardized surveys. *Journal of Wildlife Management* 72:688-696.

***\****Lantz, S. J., C. J. Conway, and S. H. Anderson. 2007. Multi-scale habitat selection by burrowing owls in black-tailed prairie dog colonies. *Journal of Wildlife Management* 71:2664-2672.

Kirkpatrick, C., C. J. Conway, and D. LaRoche. 2007. Range expansion of the Buff-breasted Flycatcher (*Empidonax fulvifrons*) into the Rincon Mountains, Arizona. *Southwestern Naturalist* 52:149-152.

Conway, C. J., and C. Kirkpatrick. 2007. Forest fire suppression as a cause of population decline in Buff-breasted Flycatchers. *Journal of Wildlife Management* 71:445-457.

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***\****Boyle, W. A., and C. J. Conway. 2007. Why migrate? A test of the evolutionary precursor hypothesis. *American Naturalist* 169:344-359.

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Kirkpatrick, C., C. J. Conway, and P. B. Jones. 2006. Distribution and relative abundance of forest birds in relation to burn severity in southeastern Arizona. *Journal of Wildlife Management* 70:1005-1012.

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***\****Smith, M. D., C. J. Conway, L. A. Ellis. 2005. Burrowing owl nesting productivity: a comparison between artificial and natural burrows on and off golf courses. *Wildlife Society Bulletin* 33:454-462.

Conway, C. J., and ***\****V. Garcia. 2005. Effects of radiotransmitters on natal recruitment of burrowing owls. *Journal of Wildlife Management* 69:404-408.

***\****Smith, M. D., and C. J. Conway. 2005. Use of artificial burrows on golf courses for burrowing owl conservation. *Turf and Environmental Research Online* 4(9):1-6.

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**Completed Theses/Dissertations by Past Graduate Students**

Lundblad, C.G. 2020. Life-history Evolution, Abiotic Constraints, and Climate Adaptability of Burrowing Owls (*Athene cunicularia*) Breeding Along a Latitudinal Gradient. Ph.D. Dissertation, Department of Fish & Wildlife Sciences, University of Idaho, Moscow, ID.

Lachman, D.A. 2020. Behavioral and environmental factors affecting nest-site selection and nest survival in a colonial-nesting waterbird. M.S. Thesis, Department of Fish & Wildlife Sciences, University of Idaho, Moscow, ID.

Riley, I.P. 2019. M.S. Student, Wildlife Sciences, University of Idaho, Sampling methods for lek and brood counts of greater sage-grouse: accounting for imperfect detection. M.S. Thesis, Department of Fish & Wildlife Sciences, University of Idaho, Moscow, ID..

Harrity, E.J. 2019, Remotely sensed metrics help map range-wide habitat suitability and identify habitat restoration priorities for an endangered marsh bird. M.S. Thesis, Department of Fish & Wildlife Sciences, University of Idaho, Moscow, ID.

Goldberg, A.R. 2018. Diet, disease, and hibernation behavior of northern Idaho ground squirrels. Ph.D. Dissertation, Department of Fish & Wildlife Sciences, University of Idaho, Moscow, ID.

Swearingen, Z. J. 2015. Effectiveness of Management Actions Intended to Benefit Wildlife Populations on the Craig Mountain Wildlife Management Area. M.S. Thesis, Department of Fish & Wildlife Sciences, University of Idaho, Moscow, ID.

Lundblad, C. G. 2014. Altitudinal migration in birds: tests of four mechanistic hypotheses in Yellow-eyed Juncos (*Junco phaeonotus*). M.S. Thesis, School of Natural Resources and the Environment, University of Arizona, Tucson, AZ.

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**Professional Affiliations & Service**

**Membership in professional societies:**

The Wildlife Society (past President of Southwest Section, Associate Editor)

American Ornithologists’ Union (Fellow; Executive Council)

Cooper Ornithological Society

Wilson Ornithological Society

Society of Field Ornithologists

Society of Wetland Scientists

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