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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 & Dept of Biological Sciences, University of Idaho, Moscow, ID (Jul. 2011-present).

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

Helmstetter\*, N., C. J. Conway, S. Roberts, J. Adams, P. Makela, and L.P. Waits. In Press. Predator-specific mortality of sage-grouse nests based on predator DNA on eggshells. *Ecology and Evolution*, in press.

Stevens, B. S., C. J. Conway, K. Sawyer\*, L. Kershek, G. Block, S. Hamilton, and R. Kolstrom. In Press. Developing a range-wide sampling framework for threatened and endangered species: a case study with light-footed Ridgway’s rail. *Biodiversity and Conservation*, in press.

Paprocki\*, N., S. Blair, C. J. Conway, J. Adams, S. Nerkowski, J. Kidd, and L. P. Waits. In Press. Comparison of seven DNA metabarcoding sampling methods to assess diet in a large avian predator. *Environmental DNA*, in press.

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Garcia\*, V., C. J. Conway, and C. P. Nadeau\*. 2024. Experimental changes in food and ectoparasites affect dispersal timing in juvenile burrowing owls. *PLoS ONE* 19(7): e0306660.

Garrett\*, M., S. Nerkowski, S. Blair, N. Campbell, S. Barbosa, C. J. Conway, P. Hohenlohe, and L. P. Waits. 2024. Development and validation of a GT-seq panel for genetic monitoring in a threatened species using minimally invasive sampling. *Ecology and Evolution* 14:e11321.

Maron\*\*, M. W., N. Paprocki\*, J. P. Owen, and C. J. Conway. 2024. Differential effects of chewing lice on body condition across host age and sex in Rough-legged Hawks (Buteo lagopus). *Journal of Wildlife Diseases* 60:in press.

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Lundblad\*, C. G., and C. J. Conway. 2023. Delayed incubation leads to hatching failure of a Burrowing Owl (Athene cunicularia) nest. *Wilson Journal of Ornithology* 135:400-405.

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Macías-Duarte\*, A., and C. J. Conway. 2021. Geographic variation in dispersal of western burrowing owl (*Athene cunicularia hypugaea*) populations. *Behavioral Ecology* 32:1339-1351.

Harrity\*, E. J., L. E. Michael, and C. J. Conway. 2021. Sexual dimorphism in morphology and plumage of endangered Yuma Ridgway’s Rails: a model for documenting sex. *Journal of Fish and Wildlife Management* 12:464-474.

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Barbosa†, S., K. R. Andrews, A. R. Goldberg\*, D. Singh-Gour, P. A. Hohenlohe, C. J. Conway, and L. P. Waits. 2021. The role of neutral and adaptive genomic variation in population diversification and speciation in two ground squirrel species of conservation concern. *Molecular Ecology* 30:4673–4694.

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Lundblad\*, C. G., and C. J. Conway. 2021. Ashmole’s hypothesis and the latitudinal gradient in clutch size. *Biological Reviews* 96:1349-1366

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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.

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

Borgmann\*, K. L., and C. J. Conway. 2015. Wildlife Habitat Restoration. Pages 157-167 in Wildlife Habitat Conservation: Concepts, Challenges, and Solutions. (M. L. Morrison and H. A. Mathewson, eds.). John Hopkins University Press, Baltimore, Maryland.

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Conway, C. J., W. R. Eddleman, S. H. Anderson, L. R. Hanebury. 1993. Seasonal Changes in Yuma Clapper Rail Vocalization Rate and Habitat Use. *Journal of Wildlife Management* 57:282-290.

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

Yen, A. 2024. Western and Clark's Grebes: status of range-wide breeding colonies and the factors that affect daily nest survival. M.S. Thesis, Department of Fish & Wildlife Sciences, University of Idaho, Moscow, ID.

Helmstetter, N.A. 2023. Effects of Livestock Grazing and Habitat on Predator-Specific Nest Mortality and Spatiotemporal Activity Patterns of Sage-Grouse Nest Predators. M.S. Thesis, Department of Fish & Wildlife Sciences, University of Idaho, Moscow, ID.

Allison, A.Z.T. 2022. Foraging Activity and Survival of the Northern Idaho Ground Squirrel are Influenced by Climate, Hibernation, Endogenous State, and Competition with a Coexisting Congener. M.S. Thesis, Department of Fish & Wildlife Sciences, University of Idaho, Moscow, ID.

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.

Garcia, M. G. 2014. Why is the Burrowing Owl breeding range contracting? M.S. Thesis, School of Natural Resources and the Environment, University of Arizona, Tucson, AZ.

Dillon, K. 2013. Ecological causes of elevational gradients in avian clutch size. M.S. Thesis, School of Natural Resources and the Environment, University of Arizona, Tucson, AZ.

Macías-Duarte, A. 2011. Change in Migratory Behavior as a Possible Explanation of Burrowing Owl Population Declines in Northern Latitudes. Ph.D. Dissertation, School of Natural Resources and the Environment, University of Arizona, Tucson, AZ.

Borgmann, K. L. 2010. Mechanisms underlying intra-seasonal variation in the risk of avian nest predation: implications for breeding phenology. Ph.D. Dissertation, School of Natural Resources and the Environment, University of Arizona, Tucson, AZ

Decker, K. D. 2009. Seasonal decline in avian clutch size: a test of six alternative hypotheses. M.S. Thesis, School of Natural Resources, University of Arizona, Tucson, AZ.

Steckler, S. E. 2009. Effects of vocal behavior on brood parasitism of Arizona Bell’s Vireo (*Vireo bellii arizonae*). M.S. Thesis, School of Natural Resources, University of Arizona, Tucson, AZ.

Ogonowski, M. S. 2007. Factors influencing migratory decisions of western Burrowing Owls. M.S. Thesis, School of Natural Resources, University of Arizona, Tucson, AZ.

Hughes, K. M. 2007. Habitat selection of band-tailed pigeons. M.S. Thesis, School of Natural Resources, University of Arizona, Tucson, AZ.

Boyle, W. A. 2006. Why do birds migrate? The role of food, habitat, predation, and competition. Ph.D. Dissertation, Department of Ecology and Evolutionary Biology, University of Arizona, Tucson, AZ.

Garcia, V. 2005. Effects of food and ectoparasites on age of natal dispersal in burrowing owls. M.S. Thesis, School of Natural Resources, University of Arizona, Tucson, AZ.

Lantz, S. J. 2005. Nesting ecology and habitat selection of western burrowing owls (*Athene cunicularia hypugaea*) in the Thunder Basin National Grassland, northeastern Wyoming, M.S. Thesis, Dept of Zoology & Physiology, University of Wyoming, Laramie WY.

Smith, M. D. 2004. Function of manure-scattering behavior of burrowing owls (*Athene cunicularia*). M.S. Thesis, School of Natural Resources, Univ. 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, Fellow)

American Ornithologists’ Union (Fellow; Executive Council)

Cooper Ornithological Society

Wilson Ornithological Society

Society of Field Ornithologists

Society of Wetland Scientists

Sigma Xi