

Robert K. Shriver

Contact Information

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Education & Experience

Postdoctoral Researcher, 2017-
U.S. Geological Survey
Southwest Biological Science Center, Flagstaff, AZ
Advisor: John Bradford

Ph.D., Ecology, 2017
Duke University, Durham, NC
Committee: William F. Morris (Chair), James S. Clark, Kathleen Donohue, Justin P. Wright

B.S., Biology, 2011
University of Wyoming, Laramie, WY
Cum Laude, Phi Beta Kappa

Publications

- (8) Tomasek, B.J., L.T. Burghardt, **R.K. Shriver**. Filling in the gaps in survival analysis: Using interval-censored field data to infer time-varying survival in response to changing environments. *In Review* at **Ecology**.
- (7) **Shriver, R.K.** 2017. Rainfall variability and fine-scale life history tradeoffs help drive niche partitioning in a desert annual plant community. **Ecology Letters** 20:1231-1241.
- (6) Coverdale, T.C., T.R. Kartzinel, K. Grabowski, **R.K. Shriver**, A. Hassan, J.R. Goheen, T.M. Palmer, R.M. Pringle. 2016. Elephants in the understory: opposing direct and indirect effects of consumption and ecosystem engineering. **Ecology** 97: 3219-3230.
- (5) **Shriver, R.K.** 2016. Quantifying how short-term environmental variation leads to long-term demographic responses to climate change. **Journal of Ecology** 104:65-78.
- (4) **Shriver, R.K.**, K. Cutler, D.F. Doak. 2012. Comparative demography of an epiphytic lichen: support for general life history patterns and solutions to common problems in demographic parameter estimation. **Oecologia** 170:137-146.
- (3) Minckley, T.A., **R.K. Shriver**, B. Shuman. 2012. Resilience and regime change in a southern Rocky Mountain ecosystem during the past 17,000 years. **Ecological Monographs** 82:49-68.
- (2) **Shriver, R.K.**, T.A. Minckley. 2012. Late-holocene response of limber pine (*Pinus flexilis*) forests to fire disturbance in the Pine Forest Range, Nevada, USA. **Quaternary Research** 78:465-473.
- Shriver, R.K.**, T.A. Minckley. 2013. Corrigendum to Late-Holocene response of limber pine (*Pinus flexilis*) forests to fire disturbance in the Pine Forest Range, Nevada, USA [Quaternary Research 78 (2012) 465-473]. **Quaternary Research** 79:309.

(1) Minckley, T.A., **R. K. Shriver**. 2011. Vegetation Responses to Changing Fire Regimes in a Rocky Mountain Forest. **Fire Ecology** 7:66-80.

In Prep

Shriver, R.K. . Consequences of increasing rainfall variability for an annual plant community. *In Prep* for **Global Change Biology**.

Teaching

Teaching Assistant, Duke University Biology 202, Introduction to Genetics and Evolution, 2014

Teaching Assistant, Duke University Biology 202Lab, Introduction to Genetics and Evolution Lab, 2 Sections, 2014

Guest Lecturer, *Physiological Responses to Climate Change*, Duke Biological Responses to Climate Change Class, 2016

Grants & Fellowships

National Science Foundation Graduate Research Fellowship, 2011 (\$132,000)

Duke Biology Departmental Fellowship, 2016 (\$24,000)

W. D. Billings Plant Ecology Fellowship, Duke University Program in Ecology, 2012 (\$22,000)

James B. Duke Fellowship, Duke Graduate School, 2012 (\$20,000)

Mediation of Bark Beetle Impacts on Forest Carbon Budgets by Growth and Survival Responses of Epiphytic Lichens. NASA WSGC Research Fellowship, 2010 (\$4,925)

Analysis of fire history of an isolated limber pine forest, Pine Forest Range, NV. NASA WSGC Research Fellowship, 2009 (\$5,000)

Duke Biology Grant-in-Aid, 2012, 2013, & 2014 (\$1,000 each)

Native Plant Society of New Mexico Grant, 2012(\$450)

Awards & Honors Highlighted Young Member, ESA Plant Population Ecology Section, September 2016

Graduate Student Conference Travel Award, Duke University Graduate School, 2014, 2015 & 2016

Student Keynote Speaker, Duke University Ecology Across Scales Symposium, 2014

College Arts and Sciences Outstanding Graduate, University of Wyoming, 2011 (Top 20 graduate of the College of Arts and Sciences)

Presentations

Invited

Shriver, R.K.. Bridging the gap between physiology and demography to understand climate change responses of a desert annual plant community, 2016. Ecological Society of America Annual Meeting, Ft. Lauderdale, FL.

Contributed

Shriver, R.K., J.B. Bradford, C. Andrews, R. Arkle, D. Pilliod. Quantifying the drivers of sagebrush recovery from fire across the Great Basin, 2017. Biennial Conference of Science and Management on the Colorado Plateau and Southwest Region, Flagstaff, AZ.

Shriver, R.K. The consequences of changing rainfall variability for a desert annual plant community, 2017. University Program in Ecology Seminar, Duke University, Durham, N.C.

Shriver, R.K. Bridging the gap between physiology and demography to understand climate change responses of a desert annual plant community, 2016. Evolutionary Demography Society Annual Meeting, Charlottesville, VA .

Shriver, R.K. Life history and environmental determinants of desert annual plant responses to rainfall variability, 2015. Ecological Society of America Annual Meeting, Baltimore, MD.

Shriver, R.K. Life history and environmental controls on the response of annual plant species to intra-annual rainfall variability, 2015. Ecology Symposium, Duke University.

Shriver, R.K., W.F. Morris. Incorporating environmental variability and competition into climate change predictions for desert annuals, 2014. Ecological Society of America Annual Meeting, Sacramento, CA.

Shriver, R.K. Incorporating environmental variability and competition into climate change predictions for desert annual plants, 2014. Population Biology Seminar, Duke University.

Shriver, R.K. Incorporating environmental variability into climate change predictions for desert annual plants, 2014. Ecology Across Scales Symposium, Duke University.

**Service &
Outreach**

Reviewer: Ecology, Ecosystems, Journal of Arid Environments, Nordic Journal of Botany, Plant Ecology

Graduate Student Member, Ecology Faculty Search Committee, Duke Biology Dept., 2016

Co-Chair, Financial Committee, Univ. Program in Ecology, Duke University, 2012-2014

Judge, Wyoming State Science, University of Wyoming, 2010 & 2011

Student Mentor, High School Student Research Apprenticeship Program, Wyoming EPSCoR, 2009