

Robert K. Shriver

Contact Information

University Program in Ecology robert.shriver@duke.edu
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Education

Duke University, Durham, North Carolina USA

Ph.D. Candidate, Ecology

Committee: William F. Morris (Chair), James S. Clark, Kathleen Donohue,
Justin P. Wright

University of Wyoming, Laramie, Wyoming USA

B.S., Biology, 2011

Phi Beta Kappa

Publications

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.

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.

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.

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.

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 or Review

Coverdale, T.C., T.R. Kartzinel, K. Grabowski, **R.K. Shriver**, A. Hassan, J.R. Goheen, T.M. Palmer, R.M. Pringle. *In Revision*. Ecosystem engineering by elephants: canopy damage benefits understory plants by creating associational refuges. *Ecology*.

Tomasek, B.J., **R.K. Shriver**, L.T. Burghardt*. Filling in the gaps in survival analysis: Using interval-censored field data to infer time-varying survival in response to changing environments. *In Prep for Methods in Ecology and Evolution*. *Ordered by author contribution

Shriver, R.K.. Rainfall variability drives life history tradeoff and niche differentiation in Chihuahuan desert plants. *In Prep*

Teaching and Mentoring

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

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

Student Mentor, Student Research Apprenticeship Program, Univ. of Wyoming NSF EPSCoR, 2009

Grants and Fellowships

Duke Biology Grant-in-Aid, 2012, 2013, & 2014

The Importance of Competition in Mediating Plant Responses to Climate Change Induced Precipitation Changes in the Chihuahuan Desert. Native Plant Society of New Mexico Grant, 2012

James B. Duke Fellowship, Duke Graduate School, 2012

W. D. Billings Fellowship, Duke University Program in Ecology, 2012

National Science Foundation Graduate Research Fellowship, 2011

Mediation of Bark Beetle Impacts on Forest Carbon Budgets by Growth and Survival Responses of Epiphytic Lichens. NASA WSGC Undergraduate Research Fellowship, 2010

Analysis of fire history of an isolated limber pine forest, Pine Forest Range, NV. NASA WSGC Undergraduate Research Fellowship, 2009

Awards and Honors

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

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

College Arts and Sciences Outstanding Graduate, University of Wyoming, 2011

Presentations

Oral

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.

Poster

Shriver, R.K. and T.A. Minckley. Fire and vegetation history of a Great Basin sky-island, 2010. Program and Abstracts of the 21st Biennial Meeting of the American Quaternary Association.

**Service &
Outreach**

Reviewer: Nordic Journal of Botany

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

Volunteer, Women in Science Day, University of Wyoming, 2011

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