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## EDUCATION

- 2008** PhD - University of Colorado, Boulder  
Department of Ecology and Evolutionary Biology  
*Dissertation title:* Variation in the effects of ants on seed dispersal and ecosystem processes.  
*Advising committee:* Dr. Michael Breed (advisor), Dr. Deane Bowers, Dr. William Bowman, Dr. Timothy Seastedt, Dr. Gary McClelland, and Dr. Nathan Sanders
- 2000** B.S. – University of Georgia, Athens  
Institute of Ecology
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## PUBLICATIONS

- 2011** Zelikova, T. J., Housman, D. C., Grote, D., Neher, D., Reed, S. C., Belnap, J. Biological crusts show limited response to warming but large response to increased precipitation frequency: Implications for soil processes in an arid ecosystem. *Plant and Soil*: Accepted.
- Reed, S. L., Coe, K., Sparks, J. P., Housman, D. C., Zelikova, T. J., Belnap, J.. Altered precipitation patterns drastically decrease moss cover and alter soil nutrient cycling in a dryland ecosystem. *PNAS*: In review.
- Zelikova, T. J., Sanders, N. J., Dunn, R. R. 2011. The mixed effects of experimental ant removal on seedling distribution, belowground invertebrates, and soil nutrients. *Ecosphere* 2(5): 1-14.
- Zelikova, T. J., Hufbauer, R. A., Moore, D. J., Reed, S. L., Belnap, J. Phenological and reproductive responses of *Bromus tectorum* to experimental warming: implications for future invasion potential. In prep.
- Zelikova, T. J., Phillips, S. L., Reed, S. C., Belnap, J. Invasion by an annual grass alters the composition of native grass and biological soil crust communities, with consequences for CO<sub>2</sub> exchange. In prep.
- 2008** Zelikova, T. J. and Breed, M. D. 2008. Effects of habitat disturbance on ant community composition and seed dispersal by ants in a tropical dry forest in Costa Rica. *Journal of Tropical Ecology* 24: 309-316.

- Zelikova, T. J., Dunn, R. R., and Sanders, N. J. 2008. Variation in seed dispersal along an elevational gradient in Great Smoky Mountains National Park. *Acta Oecologica* 34: pp. 155-162.
- 2002 Miller, S.M., Dong, A., Pai, E., Falkowski, M.J., Ledwidge, R., Summers, A.O. and Zelikova, T.J. 2002. Structure/Function analysis of protein/protein interactions and role of dynamic motions in mercuric ion reductase. DOE Genome Contractor-Grantee Workshop IX.

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## PRESENTATIONS

- 2011 Biocrust response to three years of experimental warming – *Biannual Conference for Research on the Colorado Plateau, Flagstaff, AZ*
- 2011 Invasive plant responses to climate change on the Colorado Plateau – *Ecological Society of America meeting, Austin, TX*
- 2011 Regional plant responses to climate change on the Colorado Plateau – *University of Colorado, Department of Ecology and Evolutionary Biology Seminar Series, Boulder, CO*
- 2010 Regional climate change and carbon cycling on the Colorado Plateau– *United States Geological Survey All Hands Meeting, Flagstaff, AZ.*
- 2010 Ecosystem consequences of pulsing precipitation in an arid ecosystem – *Ecological Society of America meeting, Pittsburgh, PA*
- 2010 Plant responses to experimental warming and precipitation alteration on the Colorado Plateau – *Great Basin – Mojave Desert Climate Change Workshop, Las Vegas, NV*
- 2010 Plant responses to experimental warming and precipitation alteration on the Colorado Plateau – *USGS Climate Change Conference, Denver, CO*
- 2009 Ecosystem responses to experimental warming and precipitation alteration in an arid ecosystem – *Ecological Society of America meeting, Albuquerque, NM*
- 2008 Variation in the effects of ants on seed dispersal and ecosystem processes - *Department of Ecology and Evolutionary Biology seminar, University of Colorado, Boulder, CO*
- The cascading effects of removing ants on soil nutrients, soil invertebrates, and plants – *Ecological Society of America meeting, Milwaukee, WI*
- 2006 Seed dispersal by a dominant ant species along an environmental gradient in the Great Smoky Mountains National Park – *Ecological Society of America meeting, Memphis, TN*
- 2005 Assessing differences in seed dispersal by ants in deforested and forested habitats within Santa Rosa National Park in Costa Rica – *Ecological Society of America meeting, Montreal, Canada*
- Seed dispersal by ants in Santa Rosa National Park, Costa Rica - *Student Conference of Conservation Science, Duke University, Durham, NC*

- 2004** Seed dispersal by ants in Santa Rosa National Park, Costa Rica – *Guild of Rocky Mountains Biologists, Mountain Research Station, CO*  
Seed dispersal by ants in a tropical dry forest ecosystem – *IUSSI, Portal, Arizona*
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#### GRANTS

- 2010** USGS Mendenhall Postdoctoral Fellowship + \$40,000 research budget  
Project: Regional climate change and carbon cycling on the Colorado Plateau
- 2007** Department of Ecology and Evolutionary Biology, University of Colorado - \$1,500 research grant  
Walker Van Riper grant, Museum of Natural History, University of Colorado - \$1,000
- 2006** Department of Ecology and Evolutionary Biology, University of Colorado - \$1,000 research grant  
Discover Life in America grant (PI - Nathan Sanders) - \$1,000 research support
- 2005** Department of Ecology and Evolutionary Biology, University of Colorado - \$2,300 research grant  
United Government of Graduate Students, University of Colorado - \$500 travel grant  
Walker Van Riper research support grant - \$1,000
- 2003** University of Colorado Graduate School - \$3,000  
Department of Ecology and Evolutionary Biology, University of Colorado - \$2,900 research grant  
Sigma Xi Grants in Aid - \$1,500 research grant  
Organization for Tropical Studies - \$500 research grant
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#### RESEARCH AND PROFESSIONAL EXPERIENCE

- 2011-** Research for Undergraduates mentor, Organization for Tropical Studies, La Selva, Costa Rica
- 2010** PASI Embedded Sensor Networks Course, La Selva, Costa Rica
- 2010-** Mendenhall Postdoctoral Fellow, United States Geological Survey, Southwest Biological Science Center, Canyonlands Research Station, Moab, UT
- 2009-** Ecologist, USGS Canyonlands Research Station, Moab, UT
- 2010** Visiting Scientist, NEON, Inc., Boulder, CO
- 2008-** Instructor, Department of Ecology and Evolutionary Biology, University of Colorado
- 2009** Visiting Scientist, NEON, Inc., Boulder, CO  
Environmental Consultant, SWCA Environmental Consulting, Denver, CO
- 2002-** Teaching Assistant, Department of Ecology and Evolutionary Biology, University of Colorado
- 2008**
- 2001** Research Technician, Department of Microbiology, University of Georgia
- 2001** Research Technician, Institute of Ecology Soil, Water, and Vegetation Laboratory, University of Georgia
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#### TEACHING EXPERIENCE

- 2011** Graduate Writing Course, Department of Ecology and Evolutionary Biology, University of Colorado
- 2009-** Plant Ecology, University of Nevada
- 2011** Lecturer – Introductory course for fire managers, providing an overview in topics in the ecology of plants, with emphasis placed on managed ecosystems, fire ecology, and species invasions.
- 2008** Plant Ecology, University of Colorado  
Lecturer - Upper division course focusing on advanced topics in the ecology of plants, with emphasis placed on the role resource availability, climate, and interactions with other organisms play in determining patterns in plant distribution, abundance, diversity, and function.
- 2002-** General Biology laboratory, University of Colorado
- 2008** Teaching Assistant - Broad overview of biology
- 2003-** Animal Behavior, University of Colorado
- 2007** Teaching Assistant and lecturer – Introductory course in animal behavior, focusing on the basic concepts in behavior as well as conducting laboratory exercises and individual research projects
- 2004-** NSF Research Experience for Undergraduates Program, University of Colorado
- 2007** Teaching Assistant – Mentored students conducting individual research projects and helped collect and analyze data.
- 2003** Genetics, University of Colorado  
Teaching Assistant – Introductory course in genetics

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**PROFESSIONAL AFFILIATIONS**

Ecological Society of America

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