

PROFESSIONAL POSITIONS AND EDUCATION

Wellesley College , Wellesley, Massachusetts		
Assistant Professor, Environmental Studies		2011 - Present
Botany Fellow, Wellesley College Botanic Gardens		2008-2011
University of California , Santa Cruz, California	<i>Ph.D., Environmental Studies</i>	2008
Wesleyan University , Middletown, Connecticut	<i>B.A., Biology</i>	2001

PUBLICATIONS

- **Griffith, A.B.**, 2017. Perturbation approaches for integral projection models. *Oikos* 126: 1675-1686.
- **Griffith, A.B.**, R. Salguero-Gómez, C. Merow, S. McMahon. 2016. Demography beyond the population. *Journal of Ecology* 104: 271-280.
- **Griffith, A.B.**, T. Ahmed, A. L.G. Hildner, S. Kuckreja, S. Long. 2015. Constraints on coastal dune invasion for a notorious plant invader. *AoB Plants* 7: plv126.
- Sexton, J. and **A.B. Griffith**. 2015. Evolutionary conservation under climate change. in T.L. Root, K.R. Hall, M. Herzog, C.A. Howell, editors. *Biodiversity in a changing climate: Linking science and management in conservation*. University of California Press.
- Loik, M.E., **A.B. Griffith**, H. Alpert, A. Concilio, C. Wade, S. Martinson. 2015. Impact of intra- vs. inter-annual snow depth variation on water relations and photosynthesis for two Great Basin Desert shrubs. *Oecologia* 178: 403-414.
- **Griffith, A.B.**, K. Andonian, C.P. Weiss, M.E. Loik. 2014. Variation in phenotypic plasticity for native and invasive populations of *Bromus tectorum*. *Biological Invasions*. 16: 2627-2638.
- **Griffith, A.B.**, M. Higgins, J.M. Turner. 2014. A rooftop revolution? A multidisciplinary analysis of state-level residential solar programs in New Jersey and Massachusetts. *Journal of Environmental Studies and Sciences* 4: 163-171.
- Loik, M.E., **A.B. Griffith**, H. Alpert. 2013. Impacts of long-term snow climate change on a high-elevation cold desert shrubland, California, USA. *Plant Ecology* 214: 255-266.
- Ogle, K., R.W. Lucas, L.P. Bentley, J.M. Cable, G. Barron-Gafford, **A. Griffith**, D. Ignace, G.D. Jenerette, A. Tyler, T.E. Huxman, M.E. Loik, S.D. Smith, D.T. Tissue. 2012. Differential daytime and nighttime stomatal behavior and substantial nighttime water loss in plants from North American deserts. *New Phytologist* 194: 464-476.
- Schindler, B.Y., **A.B. Griffith**, K.N. Jones. 2011. Factors influencing arthropod diversity on green roofs. *Cities and the Environment* 4.
- Cable, J.M., K. Ogle, R.W. Lucas, T.E. Huxman, M.E. Loik, S.D. Smith, D.T. Tissue, B.E. Ewers, E. Pendall, J.M. Welker, T.N. Charlet, M. Cleary, **A. Griffith**, R.S. Nowak, M. Rogers, H. Steltzer, P.F. Sullivan, and N.C. van Gestel. 2011. The temperature responses of soil respiration in deserts: a seven desert synthesis. *Biogeochemistry* 103: 71-90.
- **Griffith, A.B.** and M.E. Loik. 2010. Effects of climate and snow depth on *Bromus tectorum* population dynamics at high elevation. *Oecologia* 164: 821-832.
- **Griffith, A.B.** 2010. Positive effects of native shrubs on *Bromus tectorum* demography. *Ecology* 91: 141-154.
- **Griffith, A.B.**, H. Alpert, M.E. Loik. 2010. Predicting shrub ecophysiology in the Great Basin Desert using spectral indices. *Journal of Arid Environments* 74: 315-326.
- Loik, M.E., H. Alpert, **A.B. Griffith**. 2010. Climate change and snow depth impacts on vegetation at the Great Basin Desert – Sierra Nevada Ecotone. in F. Dallmeier, A. Fenech, D. Maciver, and R. Szaro, editors. *Climate change, biodiversity, and sustainability in the Americas*. Smithsonian Institution Scientific Series, Smithsonian Institution Scholarly Press.

- Patrick, L., J. Cable, D. Potts, D. Ignace, G. Barron-Gafford, **A. Griffith**, H. Alpert, N. Van Gestel, T. Robertson, T. Huxman, J. Zak, M. Loik, D. Tissue. 2007. Effects of an increase in summer precipitation on leaf, soil, and ecosystem CO₂ and H₂O fluxes in a sotol grassland in Big Bend National Park, Texas. *Oecologia* 151: 704-718.

Other Publications and Reviews

- **Griffith, A.** 2015. *Book review: Bridger, Rose. 2013. Plane Truth: Aviation's Real Impact on People and the Environment. London: Pluto Press. in Global Environmental Politics* 15: 133-134.

AWARDS AND DISTINCTIONS

- | | |
|---|-----------|
| National Science Foundation #1655541, <i>RUI: Advancing the ecological niche through demography</i> . \$473,977 | 2017 |
| Distinguished Faculty Member, Madeline K. Albright Institute for Global Affairs | 2011-2014 |

PROFESSIONAL MEETINGS AND ACTIVITIES

Oral Presentations

- **Griffith, A.B.** Differential demographic effects of plant-plant facilitation across the life cycle of an alpine perennial. 2017 Meeting of the Ecological Society of America, Portland, OR.
- **Griffith, A.B.** Fluctuating resources and herbivory interact to influence the demography of a novel plant population. 2016 Meeting of the British Ecological Society, Liverpool, England, UK.
- **Griffith, A.B.** Perturbation analysis for Integral Projection Models. 2016 Meeting of the Ecological Society of America, Fort Lauderdale, FL.
- **Griffith, A.B.** Extending the framework of Life Table Response Experiment (LTRE) to examine the influence of environmental drivers on population dynamics. 2015 Meeting of the British Ecological Society, Edinburgh, Scotland, UK.
- **Griffith, A.B.**, V.L. Rodgers, J.S. Dukes. Fluctuating resources and invasion establishment: linking demography with environmental drivers. 2015 Meeting of the Ecological Society of America, Baltimore, MD.
- **Griffith, A.B.** Demography beyond the population. 2015 Symposium of the British Ecological Society, Sheffield, England, UK.
- **Griffith, A.B.** Sometimes there isn't a "right" answer: integrating complexity, human values, and conservation in the classroom. 2014 Association for Environmental Studies and Sciences Conference, New York City, NY.
- **Griffith, A.B.**, M.E. Loik. Effects of climate and snow depth on *Bromus tectorum* population dynamics at high elevation. 2010 Meeting of the Ecological Society of America, Pittsburgh, PA
- **Griffith, A.B.**, K. Andonian, M.E. Loik. Phenotypic plasticity in native and invasive populations of *Bromus tectorum*. 2009 Meeting of the Botanical Society of America, Snowbird, UT
- **Griffith, A.B.**, M.E. Loik. Facilitation of an invasive grass by native shrubs. 2008 Meeting of the Ecological Society of America, Milwaukee, WI
- **Griffith, A.B.**, M.E. Loik. Impacts of snow depth and microhabitat on the growth and demography of *Bromus tectorum*. 2006 Meeting of the Ecological Society of America, Memphis, TN
- Tissue, D., L. Patrick, **A.B. Griffith**, H. Alpert, D. Ignace, J. Cable. The effect of changes in timing and magnitude of precipitation on carbon and water fluxes: Scaling C3, C4 and CAM to ecosystem. 2005 Meeting of the Ecological Society of America, Montreal, Canada
- Loik, M.E., **A.B. Griffith**, H. Alpert. Plant, community and ecosystem responses to long-term snow depth forcing. 2005 Meeting of the Ecological Society of America, Montreal, Canada

Poster Presentations

- **Griffith, A.B.**, C.H. Pao, J. Fant, C. Flowe, K. Andonian. Phenotypic and genetic variation of

Bromus tectorum in native and invasive populations. 2013 Meeting of the Ecological Society of America, Minneapolis, MN

- Shafer, D., E.R. Estes, **A.B. Griffith**, W. Guenther, D.J. Brabander. A geochemical, geospatial, geostatistical framework for trace element fate and transport in urban watersheds. 2010 Meeting of the Geological Society of America, Denver, CO
- **Griffith, A.B.** Extending nurse shrub effects to the intershrub: Simulations of *Bromus tectorum* seed dispersal and implications for fire risk. 2009 Annual Symposium of the British Ecological Society, Aberdeen, Scotland, UK
- **Griffith, A.B.** and M.E. Loik. Facilitation of an invasive grass by native shrubs. 9th Annual War on Weeds Central Coast Invasive Weeds Symposium, Monterey, CA
- **Griffith, A.B.** and M.E. Loik. Facilitation of an invasive grass by native shrubs. 2007 Annual Meeting of the Ecological Society of America, San Jose, CA
- **Griffith, A.B.** and M.E. Loik. Impacts of snow depth and microhabitat on *Bromus tectorum* growth and demography. 2005 Janet Meakin Poor Research Symposium: Plant Conservation in an Era of Global Climate Change, Chicago, IL
- **Griffith, A.B.** Effects of precipitation change and cattle grazing on the invasive grass *Bromus tectorum*. 2004 Annual Meeting of the Ecological Society of America; Portland, OR

Organizing and Professional Development

- Guest editor for the British Ecological Society cross-journal special feature, *Demography Beyond the Population*. Publications in *Journal of Ecology*, *Journal of Animal Ecology*, *Methods in Ecology and Evolution*, *Functional Ecology*, *Journal of Applied Ecology*, *Ecology and Evolution*. Published February 2016.
- Lead organizer for the British Ecological Society Symposium, *Demography Beyond the Population*. Sheffield, UK, March 24-26, 2015.
- Participant and certificate recipient, Summer Course on Integral Projection Models at the Max Planck Institute for Demographic Research, Rostock, Germany. 2012.

TEACHING EXPERIENCE

Wellesley College Courses Taught

ES 101: *Fundamentals of Environmental Science with Laboratory*

ES 102: *Environment and Society: Addressing Climate Change*

BISC 108: *Environmental Horticulture*

BISC/ES 217: *Field Botany with Laboratory*

ES 220: *Environmental Limits and Conservation with Laboratory*

ES/BISC 247: *Plant Diversity and Ecology*

ES 289: *Environmental Mapping and Analysis*

BISC/ES 327: *Biodiversity Topics: Plant Invasions*

ES/BISC 347: *Advanced Plant Diversity and Ecology*