

Aldo Compagnoni

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EDUCATION

- 2013 Ph.D. in Plant Ecology, Department of Wildland Resources and the Ecology Center, Utah State University. Dissertation: "Climate change and plant demography in the Sagebrush steppe".
- 2008 M.S. in Forest Ecology, College of Forest Resources, University of Washington. Thesis: "Controls on plant species invasions during early secondary succession: the roles of plant origin and community properties".
- 2004 B.A. in Forestry and Environmental sciences (5 years degree, 110/110 *cum laude*), University of Torino, Italy, Torino. Thesis: "Successional dynamics and conservation of biodiversity in the rangelands of the Stura di Demonte valley".

PROFESSIONAL APPOINTMENTS

- 2017 Postdoc, Martin Luther University Halle-Wittenberg.
- 2013 Postdoc, Rice University.

PUBLICATIONS

Compagnoni, A., K. Steigman, and T. E. X. Miller. 2017. Can't live with them, can't live without them? Balancing mating and competition in two-sex populations. *Proceedings of the Royal Society of London B*. 284:20171999.

Wagner, N. K., B. M. Ochocki, **A. Compagnoni**, K. M. Crawford, and T. E. X. Miller. 2017. Genetic mixture of multiple source populations accelerates invasive range expansion. *Journal of Animal Ecology* 86:21-34.

Compagnoni, A., A. J. Bibian, B. Ochocki, H. S. Rogers, E. L. Schultz, M. E. Sneek, B. D. Elderd, A. Iler, D. W. Inouye, H. Jacquemyn, and T. E. X. Miller. 2016. The effect of demographic correlations on the stochastic population dynamics of perennial plants. *Ecological Monographs*. 86:480–494.

Adler, P. B., R. Salguero-Gomez, **A. Compagnoni**, J. Hsu, J. Ray-Mukherjee, C. Mbeau-Ache, and M. Franco. 2014. Functional traits explain variation in plant life history strategies. *Proceedings of the National Academy of Sciences* 111:740–745.

Compagnoni, A., and P. B. Adler. 2014. Warming, soil moisture, and loss of snow increase *Bromus tectorum*'s population growth rate. *Elementa*. doi: 10.12952/journal.elementa.000020

Compagnoni, A., and P. B. Adler. 2014. Warming, competition, and *Bromus tectorum* population growth across an elevation gradient. *Ecosphere* 5. <http://dx.doi.org/10.1890/ES14-00047.1>.

Compagnoni, A., and C. B. Halpern. 2009. Properties of native plant communities do not determine exotic success during early forest succession. *Ecography* 32:449-458.

FELLOWSHIPS

2006-2007	Fulbright scholarship (\$16000).
2006-2008	College of Forest Resources Fellowship – 2 year Tuition waiver and 3 quarters of Research Assistantship (University of Washington).
2008-2012	Quinney competitive fellowship (\$80000)

AWARDS AND HONORS

2012 ESA student travel award from the U.S. Department of Defense's Strategic Environmental Research and Development Program (SERDP). \$500.

2012 “Climate warming effects on cheatgrass (*Bromus tectorum*): do maternal effects matter?” Utah State University graduate student senate. \$824.

2011 “Will climate change exacerbate cheatgrass (*Bromus tectorum*) invasion?”. Utah State University Ecology Center. \$2800.

2011 Plant population ecology section student travel award. Plant Population Ecology Section of the Ecological Society of America. Austin, Texas. \$200.

2011 Selected attendees for the 3rd Stanford Workshop in Biodemography, Stanford, USA.

2010 “Will climate change exacerbate cheatgrass (*Bromus tectorum*) invasion?”. Utah State University Ecology Center. \$4000.

INVITED TALKS

Compagnoni, A. and P.B. Adler. 2012. "Climate change and cheatgrass (*Bromus tectorum*) invasion in the American Intermountain West". Max Planck Institute for Demographic Research, Rostock, Germany.

Compagnoni A. 2013. “Climate Change and Plant Demography in the Sagebrush Steppe”. Rice University, Department of Ecology and Evolutionary Biology, Texas, Houston.

CONFERENCE PRESENTATIONS

Compagnoni A., T.E.X. Miller, and A. J. Bibian. 2016. “The effect of climatic variability on population dynamics: Negative, neutral, or positive?”. Evolutionary demography society, University of Virginia.

Compagnoni A., T.E.X. Miller, and A. J. Bibian. 2016. "The effect of climatic variability on population dynamics: Negative, neutral, or positive?". Ecological Society of America, Fort Lauderdale, Florida.

Compagnoni A., T.E.X. Miller, and K. Steigman. 2015. "Quantifying positive and negative interactions between the sexes". Ecological Society of America, Baltimore, Maryland.

Compagnoni A., et al. 2014. "The effect of spatio-temporal heterogeneity on the dynamics of plant populations". Ecological Society of America, Sacramento, California.

Compagnoni, A. and P.B. Adler. 2013. "Do the indirect effects of climate change decrease with species abundance?". Ecological Society of America, Minneapolis, Minnesota.

Compagnoni, A. and P.B. Adler. 2012. "Warming and reduced snow cover improve cheatgrass (*Bromus tectorum*) performance in the Intermountain West". Ecological Society of America, Portland, Oregon.

Compagnoni, A. and P.B. Adler. 2011. "Climate warming and cheatgrass (*Bromus tectorum*) invasion in the Intermountain West". Ecological Society of America, Austin, Texas.

Compagnoni, A. and P.B. Adler. 2011. "Climate change and cheatgrass (*Bromus tectorum*) invasion in the Sagebrush ecosystems of Northern Utah". Intermountain Graduate Research Symposium, Logan, Utah.

TEACHING EXPERIENCE

Utah State University

Wildland Ecosystem (Instructor, Undergraduate 2011)

Wildland Ecosystem (TA, Undergraduate 2009, 2010)

SERVICE

Reviewed 19 articles for: *Ecology Letters*, *Philosophical Transactions of the Royal Society B*, *Journal of Ecology* (3), *Ecology*, *Journal of Animal Ecology*, *Functional ecology*, *Ecosphere* (2), *Ecological modelling*, *Restoration ecology*, *Fire ecology* (2), *Journal of Arid Environments*, *Biological invasions*, *International Journal of Wildland Fire*, *Western North American Naturalist*, *Population ecology*.

Secretary-Treasurer for the Plant Population Ecology Section, Ecological Society of America (2014-2015).

Other

Utah State University Ecology Center Student Committee (Chair 2011-2012, Member 2009-2011).

Xi Sigma Pi Forestry Honour Society (Vice president, 2007-2008).

International Forestry Students Association (Western Europe representative 2003-2004).

Advising (Undergraduate advisee):

Rachel Ann Hodge (Centennial Fellowship, 2013-2015); Emily Begnel (senior thesis, 2015).

Nakian Kim (spring 2017).

SEEDS mentor at the ESA meeting 2015, Baltimore, Maryland.

ADDITIONAL TRAINING

Workshops:

- 2011 3rd Stanford Workshop in Biodemography, Stanford, USA.
- 2011 Sensitivity Analysis, Ecological Society of America, Austin, Texas.
- 2012 Python for Ecology, Ecological Society of America, Portland, Oregon.
- 2012 Demography In a Continuous World: New Advances In Integral Projection Models (IPMs), Ecological Society of America, Portland, Oregon.
- 2013 Software Carpentry for Ecologists. Ecological Society of America, Minneapolis, Minnesota.
- 2014 A Hands-on Primer for Working with Big Data in R: Introduction to Common Formats & Efficient Data Visualization
- 2015 Individual Stochasticity: How to Model, Measure, and Interpret It
COMPADRE: The Era of Comparative Plant Demography
A Hands-on Tutorial in Empirical Dynamic Modeling and Convergent Cross-Mapping

OUTREACH

Invited high school lectures on general science (Torino, Italy, 2014-2015).

SKILLS

Solid R programming skills, experience with SQL, Matlab, and C++.

NONACADEMIC WORK

- 2005 –2006 Project consultant and field botanist (consulting firms Geostudio and Ecolabel, Torino, Italy)
Field botanist for the EU founded Interreg-III research project “*Creating a network among the Monviso massif regional natural parks*”.

LANGUAGES

Italian (native), English (fluent).

PROFESSIONAL MEMBERSHIP

Ecological Society of America

Italian Association of Certified Professional Foresters and Agronomists

REFERENCES

Tom E. X. Miller

Assistant professor

Biosciences department, program in ecology and evolutionary biology

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Charles B. Halpern
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