

Erik Trond Aschehoug

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Education

The University of Montana

B.A., Biology 1997

Ph.D., Plant Community Ecology 2011

Experience

Assistant Professor, Louisiana State University 2015-*present*

Post-Doctoral Researcher, North Carolina State University 2011-2015

PhD Student/Teaching Assistant, The University of Montana 2005-2011

Project Ecologist, The Nature Conservancy, Santa Cruz Island 1999-2005

Fulbright Fellow, Norwegian University of Life Sciences 1997-1998

Peer-reviewed Publications

**Corresponding Author*

18. **Aschehoug, E.T.**, Atwater, D.Z., Brooker, R.W., Maron, J., Callaway, R.M. 2016. The mechanisms and importance of interspecific competition among plants. *Annual Review of Ecology, Evolution, and Systematics*
17. Sivakoff, F.S., Morris, W.F., **Aschehoug, E.T.**, Hudgens, B.R., and Haddad, N.M. 2016. Habitat restoration alters adult butterfly morphology and dispersal. *Ecosphere*.
16. **Aschehoug, E.T.** and Callaway, R.M. 2015. Diversity increases indirect interactions, attenuates the intensity of competition, and promotes coexistence. *American Naturalist* 186(4): 452-459.
15. **Aschehoug, E.T.**, Sivakoff F.S., Cayton, H.L., Morris, W.F., Haddad, N.M. 2015. Habitat restoration affects immature stages of a wetland butterfly only through indirect effects on predation. *Ecology* 96(7): 1761-1767.
14. Swaddle, J. P., C. D. Francis, J. R. Barber, C. B. Cooper, C. C. Kyba, D. M. Dominoni, G. Shannon, **E.T. Aschehoug**, S. E. Goodwin, and A. Y. Kawahara. 2015. A framework to assess evolutionary responses to anthropogenic light and sound. *Trends in Ecology & Evolution* 30: 550-560.
13. Cayton, H.L., Haddad, N.M., Ball, B., Henry, E., and **E.T. Aschehoug**. 2015. Habitat restoration as a recovery tool for a disturbance dependent butterfly, the endangered St. Francis' satyr. In: *Butterfly Conservation in North America*. (editor Daniels, J.C.).
12. **Aschehoug, E.T.** and R.M. Callaway. 2014. Morphological variability in tree root architecture indirectly affects coexistence among competitors in the understory. *Ecology* 95(7): 1731-1736

11. **Aschehoug, E.T.**, Callaway, R.M., Newcombe, G, Tharayil, N, and S. Chen. 2014. Fungal endophytes increase the allelopathic effects of an invasive plant. *Oecologia*. 175:285-291
10. Cavieres, L.A., Brooker, R.W., Butterfield, B.J., Cook, B.J., Kikvidze, Z., Lortie, C.J., Michalet, R., Pugnaire, F.I., Schob, C., Xiao, S., Anthelme, F., Bjork, R.G., Dickinson, K.J.M., Cranston, B.H., Gavilan, R., Guitierrez-Giron, A., Kanka, R., Maalouf, J.P., Mark, A.F., Noroozi, J., Parajuli, R., Phoenix, G.K., Reid, A.M., Ridenour, W.M., Rixen, C., Wipf, S., Zhao, L., Escudero, A., Zaitchik, B.F., Lingua, E., **Aschehoug, E.T.**, and R.M. Callaway. 2014. Facilitative plant interactions and climate simultaneously drive alpine plant diversity. *Ecology Letters* 17:193-202
9. Metlen, K.L., **Aschehoug, E.T.**, Callaway, R.M. 2013. A native conifer indirectly facilitates one invader and suppresses another by modifying competitive outcomes. *Oikos* 122:632-640
8. **Aschehoug, E.T.** and R.M. Callaway. 2012. Plasticity and trait-mediated indirect interactions among plants. In: *Trait-Mediated Indirect Interactions: Ecological and Evolutionary Perspectives*. (eds. Ohgushi, T, Schmitz, O. and Holt, R. D.) University Press, Berkeley, CA.
7. Xiao, S., Callaway, R. M., Newcombe, G., and **E.T. Aschehoug***. 2012. Models of experimental competitive intensities predict home and away differences in invasive impact and the effects of an endophytic mutualist. *American Naturalist* 180:707-718
6. **Aschehoug, E.T.**, Metlen, K.L., Callaway, R.M. and G. Newcombe. 2012. Fungal endophytes increase the competitive effects of an invasive plant. *Ecology* 93(1): 3-8
5. Thorpe, A.S., **Aschehoug, E.T.**, Atwater, D.Z. and R.M. Callaway. 2011. Plant interactions and evolution. *Journal of Ecology* 99: 729–740
4. Metlen, K.L., **Aschehoug, E.T.** and R.M. Callaway. 2009. Plant behavioral ecology: dynamic plasticity in secondary metabolites. *Plant, Cell and Environment* 32:641-653.
3. Wilcox, J., **E.T. Aschehoug**, C. Scott, and D. Van Vuren. 2004. A test of the Judas technique as a method for eradicating feral pigs. *Transactions-Western Section of the Wildlife Society* 40:120.
2. Callaway R.M., R.W. Brooker, P. Choler, Z. Kikvidze, C.J. Lortie, R. Michalet, L. Paolini, F. I. Pugnaire, B. Newingham, **E.T. Aschehoug**, C. Armas, D. Kikodze and B.J. Cook. 2002. Positive interactions among alpine plants increase with stress. *Nature* 417: 844-848.
1. Callaway, R.M. and **E.T. Aschehoug**. 2000. Invasive plants versus their new and old neighbors: a mechanism for exotic invasion. *Science* 290:521-523.

Publications in review or revision for resubmission

Beccera, P., Catford, J., **Aschehoug, E.T.**, Andonian, K., Inderjit, Montesinos, D., and R.M. Callaway. *Pending invited revision*. Impact of *Eucalyptus globulus* on

understory diversity is greater in non-native ranges than in native range. *Journal of Biogeography*.

Proceedings and Symposium publications (peer-reviewed)

3. Bakker, V.J., K.R. Crooks, D.H. Van Vuren, D.K. Garcelon, R. Woodroffe, and **E.T. Aschehoug**. 2004. The evolution of body size and coat coloration in the Channel Islands spotted skunk (*Spilogale gracilis amphiala*). *Proceedings of the American Society of Mammologists*. Humboldt, CA.
2. Bakker, V.J., D.K. Garcelon, **E. T. Aschehoug**, K.R. Crooks, C. Newman, G. Schmidt, D.H. Van Vuren, and R. Woodroffe. 2003. Current status of the Santa Cruz Island Fox (*Urocyon littoralis santacruzae*). *Proceedings of the Sixth California Islands Symposium*. Ventura, Ca.
1. Coonan, T. J., K. Rutz, D. K. Garcelon, B. C. Latta, M. M. Gray, and **E. T. Aschehoug**. 2003. Progress in island fox recovery efforts on the northern Channel Islands. *Proceedings of the Sixth California Islands Symposium*. Ventura, Ca.

Grants and Awards

SERDP-DOD (Collaborator): Endangered butterflies as a model system for managing source-sink dynamics on department of defense lands (\$131,500)—*supplemental funding award to preexisting grant; conceived and written by E.T. Aschehoug*

National Science Foundation Graduate Research Fellowship (\$121,500)—*national competitive award for pre-doctoral study*

Fulbright Fellowship (1997-1998)—*Research award for study at Norwegian University of Life Sciences*

Bertha Morton Fellowship (\$2000)—*Single, competitive award given annually to the best graduate student in the sciences at The University of Montana*

Jack Schmautz Plant Ecology Award (\$3500)—*Single, competitive award given annually to the best graduate student in plant ecology at The University of Montana*

David Nicholas Memorial Scholarship (\$500)—*Single, competitive award given annually to the best graduate student in the Department of Biological Sciences, The University of Montana*

Davidson Honors College Undergraduate Research Award (\$2100)—*Competitive award given to undergraduate students to conduct research, The University of Montana*

Samuel and Nelly Maclay Memorial Award (\$500)—*Single, competitive award given to the best senior undergraduate in the Department of Biological Sciences, The University of Montana*

Invited Departmental Seminars

University of North Carolina, Chapel Hill. (2/2012) "The role of multi-species competition in plant community structure."

University of Richmond. (10/2012) “Teaming up for success: mutualisms and plant interactions.”

Victoria University of Wellington, New Zealand. (12/2012) “Multi-species competition and the structure of plant communities.”

Wake Forest University, Winston-Salem (3/2014) “Multi-species competition and the structure of plant communities.”

Utrecht University, Utrecht, The Netherlands (11/2014) “Biodiversity, species interactions, and plant community structure.”

Georgetown University, Washington D.C. (2/2015) “Species Interactions and plant community structure.”

Louisiana State University, Baton Rouge. (2/2015) “Biodiversity, species interactions, and plant community structure.”

Loyola University, New Orleans (3/2016) “Biodiversity, species interactions, and plant community structure.”

Louisiana State University, Baton Rouge (9/2016) “Bombs, Beavers, and Butterflies. Restoring the St. Francis’ satyr”

Selected Presentations

Aschehoug, ET. 2016. From resource competition to chemical warfare: Invasions and the ways plants interact. Invited Symposia, Ecological Society of America Annual Meeting. Ft. Lauderdale, FL.

Aschehoug, ET and Callaway, RM. 2015. Diversity of invaders increases impacts on native communities. Ecological Society of America Annual Meeting. Baltimore, MD.

Aschehoug, ET and Callaway, RM. 2014. Plasticity in tree root architecture indirectly affects coexistence in an understory plant community. Ecological Society of America Annual Meeting. Sacramento, CA.

Aschehoug, ET, N.M. Haddad, W.F. Morris, T.M. Wepprich, F.S. Sivakoff and H. Lessig. 2013. Restoration and Recovery: Do restoration actions lead to stable populations of rare species? Ecological Society of America Annual Meeting. Minneapolis, MN.

Aschehoug, ET and Callaway, RM. 2011. Competition in multispecies communities promotes coexistence. Ecological Society of America Annual Meeting. Austin, TX.

Aschehoug, ET and Callaway, RM. 2010. The role of multi-species competitive interactions in determining the structure of plant communities. Ecological Society of America Annual Meeting. Pittsburgh, PA.

Aschehoug, ET, Metlen, KL, Callaway, RM and Newcombe, G. 2009. Fungal endophytes increase the competitive effects of an invasive plant. Ecological Society of America Annual Meeting. Albuquerque, NM.

Teaching Awards and Experience

The University of Montana Graduate Teaching Assistant of the Year Award (2010-11)—Single, annual competitive award given to the best teaching assistant on campus.

Teaching Assistant (UMT): Science of Life (taught, mentored new TAs, and coordinated all labs), Diversity of Life, Principles of Biology, Plant Physiology, Alpine Field Ecology.

Head Instructor (NCSU and LSU): Honors Ecology (NCSU), Invasive Rodents and Islands (NCSU; NSF-IGERT graduate field course), General Ecology (LSU)

Teaching Workshops:

Pathways to Scientific Teaching. Workshop by Dr. Diane Ebert-May. 12/2009.
Gulf Coast Summer Institute on Scientific Teaching. 7/2016.

Service

Founding Chair and current President, Invasion Ecology Section, Ecological Society of America.

Subject Editor: *Oikos* (Community Ecology)

Reviewer:

Ecology Letters; Ecology; American Naturalist; Journal of Ecology; Oecologia; Oikos; Ecological Modeling; Biological Invasions; New Phytologist; Ecological Applications; Global Ecology and Biogeography; Torrey Botanical Review; Allelopathy Journal; Central European Journal of Botany; Perspectives in Plant Ecology, Evolution and Systematics; International Journal of Plant Sciences; AoB Plants; U.S. National Science Foundation (proposals); Canada NSERC Discovery Grants; Springer Publishing;