

Relena Rose Ribbons

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Education

Ph.D. Geosciences & Natural Resource Management, University of Copenhagen	2017
Ph.D. Forest Ecology, Geosciences, & Natural Resource Mgmt, Bangor University	2017
M.Sc. Forest Ecology, University of Massachusetts Amherst	2011
B.A. Environmental Studies, minors: Biology, Geology, Wellesley College	2009

Teaching experience

2016- Present- Visiting Professor at Lawrence University
Courses taught: Freshman Studies 100, Freshman Studies 101,
Environmental Studies senior capstone 650
2009-2011- Teaching Assistant UMass-Amherst,
Courses: Dendrology (field and lab instructor), Forests and People

Recent Appointments

2016- Present Lawrence University (Appleton, Wisconsin)
2014- 2017 Research Staff University of Copenhagen (Copenhagen, Denmark)
2014- 2017 Research Staff Bangor University (Bangor, United Kingdom)
2013 Research Assistant (Harvard Forest, Massachusetts)
Research assistant on a long-term soil warming project with the Marine Biological
Laboratory, and the HF-Hemlock Removal Experiment.

Peer-Reviewed Publications

Ribbons, R.R., Levy-Booth, D., Masse, J., Grayston, S.J., McDonald, M.A., Vesterdal, L., and Prescott, C.E. (2016) Linking microbial communities, functional genes and nitrogen-cycling processes in forest floors under four tree species. *Soil Biology and Biochemistry*.

Martin, P., Jung, M., Brearley, F.Q., **Ribbons, R.R.**, Lines, E.R., and Jacob, A. (2016) Can we set a global threshold age to define mature forests? *PeerJ*.

Del Toro, I., **Ribbons, R. R.**, and Ellison, A. M. (2015) Animal-mediated ecosystem functions on a warmer planet: an experimental evaluation of warming and ants on soil movement, decomposition, and nutrient cycling. *Journal of Animal Ecology*.

Kendrick, J., **Ribbons, R.R.**, Classen, A.T., and Ellison, A.M. (2015) Changes in canopy structure and ant assemblages affect ecosystem processes following hemlock loss. *Ecosphere*.

Andersen, A.N., **Ribbons, R.R.**, Petit, M, and Parr, C.L. (2014) Burning for biodiversity: highly resilient ant communities respond only to strongly contrasting fire regimes in Australia's seasonal tropics. *Journal of Applied Ecology*.

Ribbons, R.R. (2014) Community responses to eastern hemlock loss across a latitudinal gradient. *Southeastern Naturalist* Special Issue 6

Ribbons, R.R. (2014) Red spruce (*Picea rubens*) community dynamics at southern range margins: using dendrochronology to explore climate change. *PeerJ*.

Stuble, K., Patterson, C., Rodriguez-Cabal, M., **Ribbons, R.R.**, Dunn, R.R., and Sanders, N.J. (2014) Ant-mediated seed dispersal mutualism very resilient to experimental climatic warming. *PeerJ*.

Del Toro, I., **Ribbons, R.R.**, and Pelini, S.L. (2012) The little things that run the world revisited: A review of ant-mediated ecosystem services and disservices. *Myrmecological News*.

Ribbons R.R. (2011) Red spruce (*Picea rubens*) community dynamics at southern range margins. Master's of Science Thesis at University of Massachusetts-Amherst.

In Peer-Review

Del Toro, I., **Ribbons, R. R.**, Hayward, J. and Andersen, A. How accurate are Stacked Species Distribution Models at predicting multiple levels of diversity along a rainfall gradient? The curious case of Australian ants.

Del Toro, I., **Ribbons, R. R.**, Rodriguez, C. and Mackay, W. Variation in ant-mediated seed dispersal along elevation gradients.

Del Toro, I. Berberich, G., **Ribbons, R.R.**, Berberich, M., Sanders, N.J., and Ellison, A.M. Nests of Red wood ants (*Formica rufa*) are positively associated with tectonic fault zones: A double-blind test.

In Preparation

Ribbons, R.R., Del Toro, I., Smith, A.R., Healey, J.R., Vesterdal, L., and McDonald, M.A. A serenade for the role of humble roots: experimentally testing tree species effects on rhizosphere soil microbial communities

Ribbons, R.R., Kosawang, C., Ambus, P., McDonald, M.A., Grayston, S., Prescott, C.E., and Vesterdal, L. Broadleaf tree species effects on nitrogen cycling and soil microbial communities.

Book Chapters and Educational Publications

Ribbons, R.R., McDonald, M.A., and Vesterdal, L. (In press) "Microbial communities, functional genes, and nitrogen cycling processes as affected by tree species" in Soil biological communities and ecosystem resilience. Ed. M. Lukac, P. Grenni, and M. Gamboni.

Ribbons, R.R. (2013) "Appalachian Mixed Mesophytic Forests ", "New England Acadian Forests", "The Allegheny Highland Forests" in Biomes and Ecosystems: An Encyclopedia Ed. R.W. Howarth

Selected Recent Grants and Awards

2016- Bangor University SENRGY Research Grant

2013 - FONASO - Forests and Nature for Society (University of Copenhagen and Bangor University) 3 year fellowship for Erasmus Mundus Joint Doctorate

2012- CSIRO Research Fellow (Tropical Ecosystems Research Centre, Darwin, Australia)