

# LAUREN C. BREZA

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DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENT  
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## Education

- Ph.D.** University of New Hampshire, Natural Resources and Earth System Sciences, Exp. 2020  
Soil Biogeochemistry, Soil Fertility, Agroecology  
Major Professor: Dr. A. Stuart Grandy
- M.S.** University of Tennessee, Ecology and Evolutionary Biology, 2015  
Ecosystem Ecology, Ecosystem Genetics, Phylogenetics  
Major Professor: Dr. Joseph K. Bailey
- B.S.** University of Tennessee, Ecology and Evolutionary Biology, 2011  
Ecosystem Ecology  
Academic Advisors: Drs. Aimée T. Classen & Nathan J. Sanders

## Publications

Mueller, L.O., **L.C. Breza**, M.A. Genung, C. Giardina, N.E. Stone, L. C. Sidak-Loftis, J.D. Busch, D.M. Wagner, J.K. Bailey, J.A. Schweitzer. (2017) Ecosystem consequences of plant genetic divergence with colonization of new habitat. *Ecosphere*. DOI: 10.1002/ecs2.1743

**Breza L.C.**, L. Souza, N.J. Sanders, and A.T. Classen. (2012) Within and between population variation in plant traits predict ecosystem functions associated with a dominant plant species. *Ecology and Evolution*. DOI: 10.1002/ece3.223

Kuebbing S., M.A. Rodriguez-Cabal, D. Fowler, **L. Breza**, J.A. Schweitzer, J.K. Bailey. (2012) Resource availability and plant diversity explain patterns of invasion of an exotic grass. *Journal of Plant Ecology*. DOI: 10.1093/jpe/rts018

## Presentations

**Breza L.C.**, 2017. J. Schneckner, T.M. Bowles, and A.S. Grandy. Soil management practices drive microbial uptake of carbon and nitrogen in agricultural soils. Ecological Society of America annual meeting, Portland, OR, USA. *Poster presentation*.

**Breza L.C.**, 2015. A novel adaptive landscape: Urbanization as an evolutionary force. Departmental Exit Seminar. Ecology and Evolutionary Biology Department. University of Tennessee. Knoxville, TN. USA. *Oral presentation*.

**Breza L.C.**, J.A. Schweitzer, J.K. Bailey. 2014. Fragmentation drives selection in a model system. University of Kentucky, Annual Spring Symposium in Ecology, Evolution and Behavior. Lexington, KY. USA. *Oral presentation*.

**Breza L.C.**, L. Souza, N.J. Sanders, and A.T. Classen. 2011. Within and between population variation in plant traits predict ecosystem functions associated with a dominant plant species. University of Tennessee Office of Research undergraduate research symposium, Knoxville, TN, USA. *Poster presentation*

**Breza L.C.**, L. Souza, and A.T. Classen. 2010. Intra-specific variation in ecosystem function of an old-field system. Association of Southeastern Biologists annual meeting, Asheville, NC, USA. *Oral presentation*.

**Breza L.C.**, L. Souza, and A.T. Classen. 2010. Intra-specific variation in ecosystem function of an old-field system. University of Tennessee Office of Research undergraduate research symposium, Knoxville, TN, USA. *Poster presentation*.

## Research Experience

- 2016-present PhD Student, Soil Biogeochemistry Lab, Natural Resources, University of New Hampshire, Durham  
Field and laboratory experimental design, soil sampling, soil analyses
- 2013-2015 Masters Student, Ecosystem Genetics Lab, Ecology and Evolutionary Biology Department, University of Tennessee, Knoxville  
Meta-analysis design and implementation, field, laboratory, and greenhouse experimental design, soil analyses, plant propagation
- 2012-2013 Lab Technician, Ecosystem Ecology Lab, Ecology and Evolutionary Biology Department, University of Tennessee, Knoxville  
Responsible for maintaining instrumentation, designing and performing field and lab experiments, maintaining organization, and ordering inventory.
- 2010-2011 Post-Bachelor Intern, Environmental Sciences Division, Oak Ridge National Laboratory, TN  
Undertook field and laboratory responsibilities essential for project goals
- 2010 Undergraduate Intern, Biosciences Division, Oak Ridge National Laboratory, TN  
Assisted greenhouse manager and maintained experimental greenhouse plants
- 2006-2010 Undergraduate Researcher, Ecology and Evolutionary Biology Department, University of Tennessee, Knoxville  
Collected field samples, processed samples, and carried out laboratory analyses

## Honors and Awards

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|------|---|-----------|
| 2016 | University of New Hampshire, Graduate School<br>Conference Travel Grant                                     | \$200     |
| 2014 | University of Tennessee, Ecology and Evolutionary Biology<br>Departmental Research Grant & Chancellor Funds | \$1,700   |
| 2013 | University of Tennessee, Ecology and Evolutionary Biology<br>Departmental Research Grant & Chancellor Funds | \$1,600   |
| 2013 | Fellow, National Science Foundation<br>Graduate Research Fellowship Program                                 | \$126,000 |
| 2011 | University of Tennessee, Ecology and Evolutionary Biology<br>Outstanding Undergraduate                      |           |
| 2009 | Fellow, University of Tennessee Office of Research<br>Undergraduate Research Fellowship                     | \$2,000   |
| 2008 | Fellow, University of Notre Dame, GLOBES Program<br>Research Experience for Undergraduates Fellowship       | \$4,500   |

## Teaching and Outreach

- 2016-present Co-coordinator, Women in Science, Student Organization  
University New Hampshire, Durham
- 2016, Spring TA, Introductory Biology: Evolution, Biodiversity, and Ecology (BIOL 412)  
University of New Hampshire, Durham
- 2015, Fall TA, Organismal and Ecological Biology (BIO 150)  
University of Tennessee, Knoxville
- 2015, Summer Instructor on Record, General Ecology Lab (BIO 269)  
University of Tennessee, Knoxville
- 2014, Spring TA, Introduction to Biodiversity (BIO 130)  
University of Tennessee, Knoxville

- 2013, Fall TA, Introduction to Biodiversity (BIO 130)  
University of Tennessee, Knoxville
- 2013-2015 Board Member & Volunteer, Slow Food Tennessee Valley, Non-profit  
Knoxville, TN
- 2011-2015 Trail Builder & Volunteer, Appalachian Mountain Bike Club, Non-profit  
Knoxville, TN
- 2009-2010 Departmental Chair, Dean's Student Advisory Committee, College of Arts & Sciences  
University of Tennessee, Knoxville
- 2009-2010 Co-President and founder, Ecology and Evolutionary Biology Undergraduate Organization  
University of Tennessee, Knoxville

## References

Dr. A. Stuart Grandy  
Associate Professor  
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University of New Hampshire, Durham, NH  
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Dr. Joseph K. Bailey  
Associate Professor  
Ecology and Evolutionary Biology Department  
University of Tennessee, Knoxville, TN  
Email: Joe.Bailey@utk.edu  
Phone: 865.974.0864

Dr. Aimée T. Classen  
Associate Professor  
Rubenstein School of Environment and Natural Resources  
University of Vermont  
Email: Aimee.Classen@uvm.edu