

SAMANTHA ROSE WEINTRAUB

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EDUCATION

- 2009-2014 Ph.D., Biogeochemistry, University of Colorado Boulder
2003-2007 B.S., Conservation and Natural Resources, University of California Berkeley

PROFESSIONAL EXPERIENCE

- 2016-Present Staff Scientist and Terrestrial Biogeochemist, National Ecological Observatory Network (NEON)
2014-Present Participating Scientist, American Climber Science Program
2014-2016 Postdoctoral Research Fellow, University of Utah
2011-2014 Graduate Research Assistant, University of Colorado Boulder
2009-2011 Graduate Teaching Assistant, University of Colorado Boulder
2007-2008 Research Technician, University of California Berkeley
2006-2007 Undergraduate Research Assistant, University of California Berkeley

AWARDS AND GRANTS

- 2016 Research Grant, Jordan Valley-Farmington Bay Water Quality Council (\$70K)
2015 Workforce Development Grant, iUtah EPSCOR, NSF (\$15K)
2015 Research Grant, Friends of Red Butte Creek (\$3.5K)
2014 Outstanding Student Paper Award, Organization for Tropical Studies
2013 Doctoral Dissertation Improvement Grant, NSF (\$17K)
2012 Greg Gund Research Fellow, Osa Conservation (\$3.5K)
2012 Campus Sustainability Student Leadership Award, University of Colorado
2012 Beverley Sears Research Grant, University of Colorado Boulder (\$2K)
2010 Pre-doctoral Fellowship Honorable Mention, NSF
2010 Graduate Research Grant, Organization for Tropical Studies (\$1K)
2006 Undergraduate Excellence in Honors Research Award, University of California

PUBLICATIONS

In Review

Weintraub, S. R., P. D. Brooks, and G. J. Bowen. Effects of vegetation and terrain on nitrogen availability and loss in a temperate montane watershed.

Hall, S. J., E. Ogata; **S. R. Weintraub**, M. A. Baker, J. R. Ehleringer, C. I. Czimczik, and D. R. Bowling. Convergence in nitrogen deposition and isotopic composition across urban and agricultural valleys in northern Utah.

Fancher, H. R., P. G. Taylor, T. Legg, **S. R. Weintraub**, D. R. Nemergut, C. C. Cleveland, and A.R. Townsend. Greenhouse gas emissions and bioenergy potential from a palm oil mill effluent wastewater system in Costa Rica.

Accepted

12. **Weintraub, S. R.**, R. J. Cole, C. G. Schmitt, and J. All (*In press*). Climatic controls on the isotopic composition and availability of soil nitrogen in mountainous tropical forests. *Ecosphere*.
11. Hall, S.J., **S. R. Weintraub**, and D.R. Bowling (2016). Scale-dependent linkages between nitrate isotopes and denitrification in surface soils: Implications for nitrogen isotope models. *Oecologia* 1-11.
10. Hall, S.J., **S. R. Weintraub**, D. Eriksson, P. D. Brooks, M. A. Baker, G. J. Bowen, D. Bowling (2016). Stream nitrogen inputs reflect groundwater across a snowmelt-dominated montane to urban watershed. *Environmental Science and Technology* 50: 1137–1146.
9. **Weintraub, S. R.**, P. G. Taylor, S. Porder, C. C. Cleveland, G. P. Asner, and A. R. Townsend (2015). Topographic controls on soil nitrogen availability in a lowland tropical forest. *Ecology* 96: 1561-1574.
8. Taylor, P. G., W. R. Wieder, **S. R. Weintraub**, S. Cohen. C. C. Cleveland, and A. R. Townsend (2105). Organic forms dominate hydrologic nitrogen loss from a lowland tropical watershed. *Ecology* 96: 1229-1241.
7. Taylor, P. G., T. M. Legg, C. C. Cleveland, H. R. F. Fancher, D. R. Nemergut, **S. R. Weintraub**, W. R. Wieder, and A. R. Townsend (2014). Palm Oil Wastewater: Converting a Climate Problem into Power. *Nature Climate Change* 4: 151-152.
6. **Weintraub, S. R.**, A.R. Townsend, and A. E. Russell (2013). Native tree species regulate nitrous oxide fluxes from secondary tropical forests. *Ecological Applications* 24: 750–758.
5. Graham, E. B., W. R. Wieder, J. W. Leff, **S. R. Weintraub**, A. R. Townsend, C. C. Cleveland, L. Philippot, and D. R. Nemergut (2013). Do we need to understand microbial communities to predict ecosystem function? A comparison of statistical models of nitrogen cycling processes. *Soil Biology and Biochemistry*.
4. Warring, B. G., **S. R. Weintraub** and R. L. Sinsabaugh (2013). Ecoenzymatic stoichiometry of microbial nutrient acquisition in tropical soils. *Biogeochemistry* DOI 10.1007/s10533-013- 9849-x
3. **Weintraub, S. R.**, W. R. Wieder, C. C. Cleveland & A. R. Townsend (2012). Organic matter inputs shift soil enzyme activity and allocation patterns in a wet tropical forest. *Biogeochemistry* DOI: 10.1007/s10533-012-9812-2.
2. Wieder, W. R., C. C. Cleveland, P. G. Taylor, D. R. Nemergut, E. L. Hinckley, L. Philippot, D. Bru, **S. R. Weintraub**, M. Martin, and A. R. Townsend (2012). Experimental removal and addition of leaf litter inputs reduces nitrate production and loss in a lowland tropical forest. *Biogeochemistry* DOI 10.1007/s10533-012-9793-1.
1. **Weintraub, S. R.**, S. Placella, D. Herman & M. K. Firestone (2007). Nitrification in model grassland ecosystems: edaphic & environmental controls. *College of Natural Resources Undergraduate Honors Thesis*. University of California, Berkeley.

NATIONAL PRESENTATIONS

8. Effects of vegetation and terrain on nitrogen availability and loss in a temperate montane

ecosystem. Ecological Society of America Annual Meeting, Fort Lauderdale (2016 expected)

7. Controls on soil and stream nitrogen cycling in a mountain to urban watershed. American Geophysical Union Annual Meeting (2015)

6. Climatic controls on the isotopic composition and availability of soil nitrogen in montane tropical forests. American Geophysical Union Annual Meeting (2014)

5. Erosional nitrogen losses from a geomorphologically dynamic wet tropical watershed. American Geophysical Union Annual Meeting (2013)

4. Multiple indices of nutrient limitation in a wet tropical forest. Ecological Society of America Annual Meeting, Minneapolis (2013)

3. Lowland tropical N cycling and soil residence time: is there a link? Ecological Society of America Annual Meeting, Portland (2012)

2. Topographic control of nitrogen cycling in tropical forests. American Geophysical Union Annual Meeting, San Francisco (2011)

1. Extracellular enzyme responses to litter and rainfall manipulations in a lowland tropical forest. Ecological Society of America Annual Meeting, Pittsburgh (2010)

TEACHING EXPERIENCE

2014 Instructor, Caribbean Ecosystems – Ecosystem Field Studies Institute

2012-2013 Lecturer, Ecosystem Ecology – University of Colorado

2010-2011 Teaching Assistant, Principles of Ecology – University of Colorado

2009 Teaching Assistant, General Biology – University of Colorado

OUTREACH AND SERVICE

2015 Participant, American Institute for Biological Sciences Annual Biological Sciences Congressional District Visit

2015 Session Convener: “Water and nutrients in the urban center and surrounding wildlands,” Salt Lake County Watershed Symposium

2014-2012 Mentor for three female honors students – helped them develop and implement senior thesis research projects in tropical biogeochemistry, University of Colorado

2013 Session convener: “Linking geomorphology to biogeochemistry and nutrient cycles,” American Geophysical Union Annual Meeting

2013 Blogger and Scientific Advisor for a non-profit organization, Conservation Osa

- <http://osaconservation.org/blog/647/a-view-inside-tropical-soils/>
- <http://osaconservation.org/blog/2578/these-are-some-steep-hillslopes/>

2012 Department Eco-leader, University of Colorado ‘Green Labs Program’

PROFESSIONAL AFFILIATIONS

Earth Science Women’s Network (2013 – present)

American Geophysical Union, Biogeosciences section (2011 – present)

Ecological Society of America, Biogeosciences section (2009 – present)