

## ERIKA MARÍN-SPIOTTA

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### RESEARCH INTERESTS

Terrestrial carbon cycle dynamics • Mechanisms of soil organic matter formation, stabilization and turnover • Ecosystem dynamics in post-agricultural tropical landscapes • Biogeochemical transformations across terrestrial and aquatic boundaries • Strategies for overcoming barriers to broadening participation in STEM fields and improving workplace climate

### EDUCATION

Ph.D. 2006. Ecosystem Science. University of California, Berkeley. Department of Environmental Science, Policy, and Management. Thesis: *Controls on above and belowground carbon storage during tropical reforestation.*  
B.S. 1997. Stanford University. Biology with a Minor in Political Science

### PROFESSIONAL EXPERIENCE

Feminist Scholars Fellow, Center for Research on Gender & Women	2018-2019
Professor of Geography	2019-Present
Associate Professor of Geography, University of Wisconsin-Madison	2015-2019
Adjunct Graduate Faculty, Boise State University	2018-Present
August-Wilhelm Scheer Visiting Professor, Technische Universität München	2017
Assistant Professor of Geography, University of Wisconsin-Madison	2009-2015
Faculty Affiliate, Forest and Wildlife Ecology	2013-Present
Faculty Affiliate, Soil Science	2011-Present
Faculty Affiliate, Center for Sustainability and the Global Environment, Nelson Institute for Environmental Studies	2009-Present
Faculty Affiliate, Center for Culture, History, and the Environment	2010-Present
Faculty Affiliate, Latin American, Caribbean, and Iberian Studies Program	2009-Present
NSF Postdoctoral Fellow, Geography, University of California, Santa Barbara	2006-2009
Department of Energy Graduate Research Environmental Fellow, University of California, Berkeley	2001-2005
Research Assistant, Biological Sciences, Stanford University	1994-1999

### OTHER TRAINING

Organization for Tropical Studies, Ecology Field Course, Costa Rica (6-7/2000)  
Hopkins Marine Biological Station, Stanford University, Monterey, CA (1-6/1996)

### AWARDS AND HONORS

Presidential Early Career Award for Scientists and Engineers	2019
H.I. Romnes Faculty Fellowship, UW-Madison	2019-2024

Diversity Liaison Program Fellow, Division of Diversity, Equity and Educational Achievement, UW-Madison	2019-2022
Feminist Scholars Fellowship, Center for Research on Gender and Women	2019-2020
Presidential Award for Excellence in Science and Engineering Mentoring to the Earth Science Women's Network (ESWN) (Marín-Spiotta is on Leadership Board)	2018
Sulzman Award for Excellence in Education and Mentoring, American Geophysical Union	2016
Association for Women Geoscientists President's Award	2016
American Meteorological Society of America Special Award to ESWN Board	2016
Vilas Associate Award, UW Madison	2016-2018
National Science Foundation CAREER Award	2014-2019
Invited Speaker, Gordon Research Conference	2013
Carl Strom Underrepresented Minority Fellowship, Gordon Conference	2013
Honored Instructor Award, University Housing Office of Academic Initiatives	Spring 2012
Best Paper Presentation for Session at Soil Science Society of America Meeting	2008
NSF ADVANCE Rice University Workshop Travel Award	2007
NSF BIO Minority Postdoctoral Research Fellowship	2006-2009
Marvin L. Wesely Distinguished Graduate Research Environmental Fellow Award	2005
Graduate Research Environmental Fellowship, Department of Energy	2001-2005
NASA Astrobiology Institute Travel Award	2005
NSF Travel Award to Ecological Society of America Meeting, Mérida, Mexico	2005
NSF Graduate Student Fellowship Honorable Mention	2001
James P. Bennet Agricultural Fund Departmental Fellowship, UC Berkeley	2001
Arthur H. and Karen Nelson Departmental Fellowship, UC Berkeley	1999

## PUBLICATIONS

(underlined names are student co-authors)

1. von Haden, A., E. **Marín-Spiotta**, R.D. Jackson, and C.J. Kucharik. Soil microclimates influence annual carbon loss via heterotrophic soil respiration in maize and switchgrass bioenergy cropping systems. *Agriculture and Forest Meteorology*. Accepted
2. Mattheis, A., E. **Marín-Spiotta** and M. Murphy. Examining intersectionality and inclusivity in Geosciences Education Research: A Synthesis of the literature 2008-2018. *Journal of Geoscience Education*. Accepted
3. Lewandowski, T.E., J. Forrester, D.J. Mladenoff, E. **Marín-Spiotta**, A.W. D'Amato, B.J. Palik and R.K. Kolka. Long term effects of intensive biomass harvesting and compaction on the forest soil ecosystem. *Soil Biology & Biochemistry*. In press
4. Vaughan, E., M. Matos, S. Rios, C. Santiago and E. **Marín-Spiotta**. Clay and climate are poor predictors of regional-scale soil carbon storage in the US Caribbean. *Geoderma*. In press
5. Cusack, D. and E. **Marín-Spiotta**. Wet tropical soils and global change. In: Page-Dumroese, D., D. Morris, C. Giardina and M. Busse (eds). *Global Change and Forest Soils: Conservation of a Finite Resource*. Elsevier. (INVITED)
6. Nave, L., E. **Marín-Spiotta**, T. Ontl, M. Peters and C. Swanston. Soil carbon management. In: Page-Dumroese, D., D. Morris, C. Giardina and M. Busse (eds). *Global Change and Forest Soils: Conservation of a Finite Resource*. Elsevier. (INVITED)

7. González, G., **E. Marín-Spiotta**, and M. Matos. Appendix: Soil Assessment for the U.S. Caribbean. National Soils Assessment. (INVITED)
8. **Marín-Spiotta**, E. and E.U. Hobbey. Carbon in deep soils. Chapter 11. In: Multi-scale Biogeochemical Processes in Soil Ecosystems: Critical Reactions and Resilience to Climate Changes. (INVITED)
9. von Haden, A., C.J. Kucharik, R.D. Jackson and E. **Marín-Spiotta**. 2019. Litter quantity, litter chemistry, and soil texture control changes in soil organic carbon fractions under bioenergy cropping systems of the North Central U.S. *Biogeochemistry* 143: 313-326.
10. Poorter, L., D.M.A. Rozendaal, F. Bongers, J. S. de Almeida-Cortez, A. M. Almeyda Zambrano, F.S. Álvarez, J.L. Andrade, L.F. Arreola Villa, P. Balvanera, Justin M. Becknell, Tony V. Bentos, Radika Bhaskar, Vanessa Boukili, Pedro H.S. Brancalion, Eben N. Broadbent, Ricardo G. César, Jerome Chave, Robin L. Chazdon, Gabriel Dalla Colletta, Dylan Craven, Ben H.J. de Jong, Julie S. Denslow, Daisy H. Dent, Saara J. DeWalt, Elisa Díaz García, Juan Manuel Dupuy, Sandra M. Durán, Mário M. Espírito Santo, María C. Fandiño, Geraldo Wilson Fernandes, Bryan Finegan, Vanessa Granda Moser, Jefferson S. Hall, José Luis Hernández-Stefanoni, Catarina C. Jakovac, André B. Junqueira, Deborah Kennard, Edwin Lebrija-Trejos, Susan G. Letcher, Madelon Lohbeck, Omar R. Lopez, E. **Marín-Spiotta**, Miguel Martínez-Ramos, Sebastião V. Martins, Paulo E.S. Massoca, Jorge A. Meave, Rita Mesquita, Francisco Mora, Vanessa de Souza Moreno, Sandra C. Müller, Rodrigo Muñoz, Robert Muscarella, Silvio Nolasco de Oliveira Neto, Yule R.F. Nunes, Susana Ochoa-Gaona, Horacio Paz, Marielos Peña-Claros, Daniel Piotta, Jorge Ruíz, Lucía Sanaphre-Villanueva, A. Sanchez-Azofeifa, N.B. Schwartz, M.K. Steininger, W.W. Thomas, M. Toledo, M. Uriarte, L.P. Utrera, M. van Breugel, M.T. van der Sande, H. van der Wal, M.D.M. Veloso, H.F.M. Vester, I.C.G. Vieira, P.M. Villa, G.B. Williamson, S. J. Wright, K.J. Zanini, J.K. Zimmerman, and M. Westoby. 2019. Wet and dry tropical forests show opposite successional pathways in wood density but converge over time. *Nature Ecology and Evolution* 13: 928-934.
11. Poorter, L., D.M.A. Rozendaal, F. Bongers, J. S. de Almeida-Cortez, A. M. Almeyda Zambrano, F.S. Álvarez, J.L. Andrade, L.F. Arreola Villa, P. Balvanera, Justin M. Becknell, Tony V. Bentos, Radika Bhaskar, Vanessa Boukili, Pedro H.S. Brancalion, Eben N. Broadbent, Ricardo G. César, Jerome Chave, Robin L. Chazdon, Gabriel Dalla Colletta, Dylan Craven, Ben H.J. de Jong, Julie S. Denslow, Daisy H. Dent, Saara J. DeWalt, Elisa Díaz García, Juan Manuel Dupuy, Sandra M. Durán, Mário M. Espírito Santo, María C. Fandiño, Geraldo Wilson Fernandes, Bryan Finegan, Vanessa Granda Moser, Jefferson S. Hall, José Luis Hernández-Stefanoni, Catarina C. Jakovac, André B. Junqueira, Deborah Kennard, Edwin Lebrija-Trejos, Susan G. Letcher, Madelon Lohbeck, Omar R. Lopez, E. **Marín-Spiotta**, Miguel Martínez-Ramos, Sebastião V. Martins, Paulo E.S. Massoca, Jorge A. Meave, Rita Mesquita, Francisco Mora, Vanessa de Souza Moreno, Sandra C. Müller, Rodrigo Muñoz, Robert Muscarella, Silvio Nolasco de Oliveira Neto, Yule R.F. Nunes, Susana Ochoa-Gaona, Horacio Paz, Marielos Peña-Claros, Daniel Piotta, Jorge Ruíz, Lucía Sanaphre-Villanueva, A. Sanchez-Azofeifa, N.B. Schwartz, M.K. Steininger, W.W. Thomas, M. Toledo, M. Uriarte, L.P. Utrera, M. van Breugel, M.T. van der Sande, H. van der Wal, M.D.M. Veloso, H.F.M. Vester, I.C.G. Vieira, P.M. Villa, G.B. Williamson, S. J.

- Wright, K.J. Zanini, J.K. Zimmerman, and M. Westoby. 2019. Biodiversity recovery of Neotropical secondary forests. *Science Advances* 5: doi: 10.1126.sciadv.aau3114.
12. Szymanski, L.M., G.R. Sanford, K. Heckman, R.D. Jackson and E. **Marín-Spiotta**. 2019. Conversion to bioenergy crops alters the amount and age of microbially-respired soil carbon. *Soil Biology and Biochemistry* 128: 35-44.
  13. Wiesmeier, M. von Lützow, M., U. Wollschläger, H.-J. Vogel, N. Garcia Franco, M. Ließ, L. Urbanski, E. Hobley, E. **Marín-Spiotta**, B. van Wesemael, B. Lang, E. Rabot, and I. Kögel-Knabner. 2019. Soil organic carbon storage as a key function of soils – a review of drivers and indicators at multiple scales. *Geoderma* 333: 149-162.
  14. Blankinship, J.C., S.E. Crow, A.A. Berhe, J.L. Druhan, K.A. Heckman, M. Keiluweit, C.R. Lawrence, E. **Marín-Spiotta**, A.F. Plante, C. Rasmussen, C. Schädel, J.P. Schimel, C.A. Sierra, A. Thompson, R. Wagai and W.R. Wieder. 2018. Improving understanding of soil organic matter dynamics by triangulating theories, measurements, and models. *Biogeochemistry* 140: 1-13. doi.org/10.1007/s10533-018-0478-2
  15. **Marín-Spiotta**, E., S.M. Nandihalli, and M. Murphy. 2018. Changing Academic Culture: Responding to Sexual Harassment. Recognizing and Addressing Power Dynamics in Science and Academia. pp. 9-16. Washington, D.C.: Society for Neuroscience.
  16. **Marín-Spiotta**, E. 2018. Harassment should count as scientific misconduct. *Nature* 557: 141.
  17. Maga, G., D. Rozendaal, L. Poorter, F. Bongers, J. Spret, M. Garner, T. M. Aide, J. Andrade, P. Balvanera, J. Becknell, P.H. Brancalion, G.A. Cabral, R. César, R. Chazdon, R. Cole, G. Colletta, B. de Jong, J.S. Denslow, D. Dent, S. DeWalt, J. Dupuy, S.Durán, M. do E. Santo, G. Fernandes, Y. F. Nunes, B. Finegan, V.G Moser, J. Hall, J.L. Hernandez-Stefanoni, A. Junqueira, D. Kennard, E. Lebrija-Trejos, S. Letcher, M. Lohbeck, E. **Marin-Spiotta**, M. Martinez-Ramos, J. Meave, D. Menge, F. Mora, R. Munoz, R. Muscarella, S. Ochoa-Gaona, E. Orihuela-Belmonte, R. Ostertag, M. Peña Claros, E.A. Perez-Garcia, D. Piotta, P. Reich, C. Reyes-García, J. Rodríguez-Velázquez, I.E. Romero-Perez, L. Sanaphre, A. Sanchez-Azofeifa, N. Schwartz, A.S. de Almeida, J. Almeida-Cortez, W. Silver, V.S. Moreno, B. Sullivan, N. Swenson, M. Uriarte, M. van Breugel, H. van der Wal, M. Veloso, H. Vester, I. Vieira, J. Zimmerman and J.Powers. 2018. Legume abundance along successional and rainfall gradients in Neotropical forests. *Nature Ecology and Evolution* 2: 1104-1111.
  18. **Marín-Spiotta**, E. and B. Schneider. Time's Up for Harassers in Academia. The POSTDOCKET 3(16) March 2018
  19. Schneider, B., M.A. Holmes and E. **Marín-Spiotta**. Sexual harassment in the sciences: Response by professional societies. *Geoscience Currents* No. 125. American Geosciences Institute. 14 March 2018
  20. Rasmussen, C., K. Heckman, W.R. Wieder, M. Keiluweit, A.A. Berhe, J.C Blankinship, S. Crow, J. Druhan, C. Hicks Pries, E. **Marín-Spiotta**, C. Lawrence, A.F Plante, C. Schadel, J.P Schimel, C.A. Sierra, A. Thompson, and R. Wagai. 2018. Beyond clay: towards an improved set of variables for predicting soil organic matter content. *Biogeochemistry* 137: 297-306.

21. Barnes, R.T., E. **Marín-Spiotta** and A.R. Morris. 2018. Building community to advance women in the geosciences through the Earth Science Women's Network. Pp. 121-128. In: B. Johnson, (ed.) *Women and Geology: Who Are We, Where Have We Come From, and Where Are We Going?* Geological Society of America Press. (INVITED)
22. Berhe, A.A., R. Barnes, J. Six and E. **Marín-Spiotta**. 2018. Role of erosional mass movement on the biogeochemical cycling of essential elements: carbon, nitrogen, and phosphorus. *Annual Review of Earth and Planetary Sciences* 46: 521-548. doi.org/10.1146/annurev-earth-082517-010018 (INVITED)
23. **Marín-Spiotta**, E., A. S. Adams, R. T. Barnes, A.A. Berhe, M. Burt, E. Fischer, M. H. Okoro, M. Hastings, T. Holloway, A. Morris, C. Wiedinmyer. 2017. Lessons from the Earth Science Women's Network. Earthzine. earthzine.org/2017/05/23/lessons-from-the-earth-science-womens-network/ Published May 23, 2017
24. Powers, J.S. and E. **Marín-Spiotta**. 2017. Ecosystem processes and biogeochemical cycles during secondary tropical forest succession. *Annual Review of Ecology, Evolution and Systematics* 48:497-519. doi/10.1146/annurev-ecolsys-110316-022944
25. Erb, K.H., S. Luysaert, P. Meyfroidt, J. Pongratz, A. Don, S. Kloster, T. Kuemmerle, T. Fetzel, R. Fuchs, M. Herold, H. Haberl, C. Jones, E. **Marín-Spiotta**, I. McCallum, E. Robertson, V. Seufert, S. Fritz, A. Valade, A. Wiltshire and A. Dolman. 2017. Land management: data availability and process understanding for global change studies. *Global Change Biology* 23: 512-533. doi: 10.1111/gcb.13443
26. Hudson, L.N., T. Newbold et al. (> 200 authors, including E. **Marín-Spiotta**). 2016. The database of the PREDICTS (Projecting Responses of Ecological Diversity in Changing Terrestrial Systems) Project. *Ecology and Evolution* 7:145-188. doi: 10.1002/ece3.2579
27. Dialynas, Y., S. Bastola, R.L. Bras, E. **Marín-Spiotta**, W.L. Silver, E. Arnone and L. Noto. 2016. Impact of hydrologically driven hillslope erosion and landslide occurrence on soil organic carbon dynamics in tropical watersheds. *Water Resources Research* 52: 8895–8919. doi: 10.1002/2016WR018925
28. Uriarte, M., N. Schwartz, J.S. Powers, E. **Marín-Spiotta**, W. Liao and L. Werden. 2016. Impacts of climate variability on tree demography in second-growth tropical forests: the importance of regional context for predicting successional trajectories. *Biotropica* 48: 780-797. doi: 10.1111/btp.12380
29. **Marín-Spiotta**, E. and R. Ostertag. 2016. Recovery of ecosystem processes: carbon and energy flows in restored wetlands, grasslands and forests. In: M.A. Palmer, J.B. Zedler and D.A. Falk (eds.) *Foundations of Restoration Ecology*. Island Press. Pp. 366-394. (INVITED)
30. Poorter, L., F. Bongers, T.M. Aide, A.M. Almeyda Zambrano, P. Balvanera, J. Becknell, V. Boukili, P.H.S. Brancalion, E.N. Broadbent, R.L. Chazdon, D. Craven, J.S. de Almeida-Cortez, G.A.L. Cabral, B. de Jong, J. Denslow, D. Dent, S.J. DeWalt, J.M. Dupuy, S.M. Durán, M.M. Espírito-Santo, M.C. Fandino, R.G. César, J.S. Hall, J.L. Hernandez Stefanoni, C.C. Jakovac, A.B. Junqueira, D. Kennard, S. Letcher, J.C. Licona, M. Lohbeck, E. **Marín-Spiotta**, M. Martínez-Ramos, P. Massoca, J.A. Meave, R. Mesquita, F. Mora, R. Muñoz, R. Muscarella, Y.R.F. Nunes, S. Ochoa-Gaona, A. de Oliveira, E. Orihuela-

- Belmonte, M. Peña-Claros, E.A. Pérez-García, D. Piotta, J.S. Powers, J. Rodríguez-Velazquez, I.E. Romero-Pérez, J. Ruíz, J.G. Saldarriaga, A. Sanchez-Azofeifa, N.B. Schwartz, M.K. Steininger, N.G. Swenson, M. Toledo, M. Uriarte, M. van Breugel, H. van der Wal, M.D.M. Veloso, H. Vester, A. Vicentini, I.C.G. Vieira, T. Vizcarra Bentos, G.B. Williamson and D.M.A. Rozendaal. 2016. Biomass resilience of tropical secondary forests. *Nature* 530: 211-214. doi:10.1038/nature16512
31. **Marín-Spiotta**, E., B. Schneider and M.A. Holmes. 2016. Steps to building a no-tolerance culture for sexual harassment, *Eos*, 97, doi:10.1029/2016EO044859. Published on 28 January 2016.  
\*2017 EXCEL Award from Association Media & Publishing to EOS for “the best opinion piece on an issue of significance.”
  32. Hinckley, E.S., G.B. Bonan, G.J. Bowen, B.P. Colman, P.A. Duffy, C.L. Goodale, B.Z. Houlton, E. **Marín-Spiotta**, K. Ogle, S.V. Ollinger, E.A. Paul, P.M. Vitousek, K.C. Weathers and D.G. Williams. 2016. The soil and plant biogeochemistry sampling design for the National Ecological Observatory Network. *Ecosphere* 7. doi: 10.1002/ecs2.1234
  33. Radeloff, V. C., J.W. Williams, B.L. Bateman, K.D. Burke, S.K. Carter, E.S. Childress, K.J. Cromwell, C. Gratton, A.O. Hasley, B.M. Kraemer, A.W. Latzka, E. **Marín-Spiotta**, C.D. Meine, S.E. Munoz, T.M. Neeson, A.M. Pidgeon, A.R. Rissman, R. J. Rivera, L.M. Szymanski and J. Usinowicz. 2015. The rise of novelty in ecosystems. *Ecological Applications* 25: 2051-2068.
  34. Craine, J.M., E.N.J. Brookshire, M.D. Cramer, N.J. Hasselquist, K. Koba, E. **Marín-Spiotta** and L. Wang. 2015. Ecological interpretations of nitrogen isotope ratios of terrestrial plants and soils. *Plant and Soil*. 396: 1. doi:10.1007/s11104-015-2542-1
  35. Tiemann, L.K., A.S. Grandy, E.E. Atkinson, E. **Marín-Spiotta** and M.D. McDaniel. 2015. Plant biodiversity enhances belowground communities and functions in an agroecosystem. *Ecology Letters* 18: 761-771. doi: 10.1111/ele.12453
  36. Smith, A.P., E. **Marín-Spiotta** and T. Balsler. 2015. Successional and seasonal variations in soil and litter microbial community structure and function during tropical postagricultural forest regeneration: a multiyear study. *Global Change Biology* 21: 3532–3547. doi: 10.1111/gcb.12947
  37. Locatelli, B., C. Catterall, P. Imbach, C. Kumar, R. Lasco, E. **Marín-Spiotta**, B. Mercer, J. Powers, N. Schwartz and M. Uriarte. 2015. Tropical reforestation and climate change: beyond carbon. *Restoration Ecology* 23: 337-343. doi: 10.1111/rec.12209
  38. Craine, J.M., A.J. Elmore, L. Wang, L. Augusto, W. T. Baisden, E.N.J. Brookshire, M.D. Cramer, N.J. Hasselquist, E.A. Hobbie, A. Kahmen, K. Koba, J.M. Kranabetter, M.C. Mack, E. **Marín-Spiotta**, J.R. Mayor, K.K. McLauchlan, A. Michelsen, G.B. Nardoto, R.S. Oliveira, S.S. Perakis, P.L. Peri, C.A. Quesada, A. Richter, L.A. Schipper, B.A. Stevenson, B.L. Turner, R.A.G. Viani, W. Wanek and B. Zeller. 2015. Convergence of soil nitrogen isotopes across global climate gradients. *Scientific Reports* 5: 8280.
  39. Hudson, L.N., T. Newbold et al. (> 200 authors, including E. **Marín-Spiotta**) 2015. The PREDICTS database: a global database of how local terrestrial biodiversity responds to human impacts. *Ecology and Evolution* 4: 4701-4735.

40. Ponette-González, A.G., K.A. Brauman, E. **Marín-Spiotta**, K.A. Farley, K.C. Weathers, L. Curran and K.R. Young. 2015. Managing water services in tropical regions: From land cover proxies to hydrologic fluxes. *Ambio* 44: 367. doi:10.1007/s13280-014-0578-8
41. Atkinson, E. and E. **Marín-Spiotta**. 2015. Land use legacy effects on structure and composition of subtropical dry forests in St. Croix, U.S. Virgin Islands. *Forest Ecology and Management* 335: 270-280.
42. Smith, A.P., E. **Marín-Spiotta**, M.A. De Graaf and T. Balsler. 2014. Microbial community structure varies across soil organic matter pools during tropical land cover change. *Soil Biology and Biochemistry* 77: 292-303.
43. Mayes, M., E. **Marín-Spiotta**, L. Szymanski, A. Erdogan, M. Ozdogan and M. Clayton. 2014. Soil type mediates effects of land use on soil carbon and nitrogen in the Konya Basin, Turkey. *Geoderma* 232-234: 517-527.
44. **Marín-Spiotta**, E., N.T. Chaopricha, A. F. Plante, A.F. Diefendorf, C.W. Müller, S. Grandy and J.A. Mason. 2014. Long-term stabilization of deep soil carbon by fire and burial during early Holocene climate change. *Nature Geoscience* 7: 428-432. doi: 10.1038/NGEO2169 \*Featured on cover and in News and Views piece
45. **Marín-Spiotta**, E., K.E. Gruley, J. Crawford, E.A. Atkinson, J.R. Miesel, S. Greene, C. Cardona-Correa and R.G.M. Spencer. 2014. Paradigm shifts in soil organic matter research affect aquatic carbon turnover interpretations: Transcending disciplinary and ecosystem boundaries. *Biogeochemistry* 117: 279-297. doi: 10.1007/s10533-013-9949-7
46. Chaopricha, N.T. and E. **Marín-Spiotta**. 2014. Soil burial contributes to deep soil organic carbon storage. *Soil Biology and Biochemistry* 69: 251-264.
47. Ponette-González, A.G., E. **Marín-Spiotta**, K.A. Brauman, K.A. Farley, K.C. Weathers, and K.R. Young. 2013. Hydrologic connectivity in the high-elevation tropics: Heterogeneous responses to land change. *BioScience* 64: 92-104. doi: 10.1093/biosci/bit013 \*Featured on cover
48. **Marín-Spiotta**, E. and S. Sharma. 2013. Carbon storage in successional and plantation forest soils: a tropical analysis. *Global Ecology and Biogeography* 22: 105-117.
49. Santiago, C. and E. **Marín-Spiotta**. 2013. The Importance of conducting the Rapid Carbon Assessment (RaCA) study in the Caribbean Area. *National Cooperative Soil Survey Newsletter* August 2013 Issue 64: 10-12.
50. **Marín-Spiotta**, E. 2013. Novel Ecosystems. p. 923-925. In: R.W. Howarth and J. Mohan, eds. *Biomes and Ecosystems: An Encyclopedia*. Salem Press.
51. Renzas, J.M. and E. **Marín-Spiotta**. 2012. A primer on methods for measuring soil carbon. *Tenure Brief* 16. Land Tenure Center. University of Wisconsin, Madison.
52. **Marín-Spiotta**, E., O. A. Chadwick, M. Kramer, and M. S. Carbone. 2011. Carbon delivery to deep mineral horizons in Hawaiian rain forest soils. *Journal of Geophysical Research -Biogeosciences* 116, G03011, doi:10.1029/2010JG001587.
53. Atkinson, E. and E. **Marín-Spiotta**. 2010. Tropical land use change and soil carbon: Implications for REDD. *Tenure Brief* 12: 1-5. Land Tenure Center. University of Wisconsin, Madison.

54. **Marín-Spiotta**, E. and D. Cusack. 2010. Advances in biochemical methods for studying organic matter dynamics in an ecological context. *Bulletin of the Ecological Society of America* 91: 94-99. doi: 10.1890/0012-9623-91.1.94 (INVITED)
55. **Marín-Spiotta**, E., W.L. Silver, C.W. Swanston, and R. Ostertag. 2009. Soil organic matter dynamics during 80 years of reforestation of tropical pastures. *Global Change Biology* 15: 1365-1614. doi: 10.1111/j.1365-2486.2008.01805.x
56. **Marín-Spiotta**, E., C.W. Swanston, M.S. Torn, W.L. Silver, and S.D. Burton. 2008. Chemical and mineral control of soil carbon turnover in abandoned tropical pastures. *Geoderma* 143:49-62. doi:10.1016/j.geoderma.2007.10.001
57. Ostertag, R., E. **Marín-Spiotta**, W.L. Silver, and J. Schulten. 2008. Litterfall and decomposition in relation to soil carbon pools along a secondary forest chronosequence in Puerto Rico. *Ecosystems* 11:701-714. doi: 10.1007/s10021-008-9152-1
58. **Marín-Spiotta**, E., D.F. Cusack, R. Ostertag, and W.L. Silver. 2008. Trends in above and belowground carbon with forest regrowth after agricultural abandonment in the Neotropics. Pp. 22-72. In: R. Myster, ed. *Post-agricultural Succession in the Neotropics*. Springer, New York, NY. (INVITED)
59. **Marín-Spiotta**, E., R. Ostertag, and W.L. Silver. 2007. Long-term patterns in tropical reforestation: plant community composition and aboveground biomass accumulation. *Ecological Applications* 17:828-839. doi: 10.1890/06-1268
60. Birdsey, R.A., J.C. Jenkins, M. Johnston, E. Huber-Sannwald, B. Amiro, B. de Jong, J.D. Etchevers Barra, N. French, F. Garcia-Oliva, M. Harmon, L.S. Heath, V.J. Jaramillo, K. Johnsen, B. Law, E. **Marín-Spiotta**, O. Maser, R. Neilson, Y. Pan, K.S. Pregitzer. 2007. North American Forests. Pp. 117-126 and 173-176. In: A.W. King, L. Dilling, G.P. Zimmerman, D.M. Fairman, R.A. Houghton, G. Marland, A.Z. Rose, and T.J. Wilbanks (eds.) *The First State of the Carbon Cycle Report (SOCCR): The North American Carbon Budget and Implications for the Global Carbon Cycle*. National Oceanic and Atmospheric Administration, National Climatic Data Center, Asheville, NC.
61. Silver, W.L., E. **Marín-Spiotta**, and A. Lugo. 2001. El Caribe. Pp. 155-181. In: A.D. Brown and M. Kappelle, (eds.) *Bosques Nublados del Neotrópico*. INBio: Santo Domingo de Heredia, Costa Rica. (INVITED)
62. Schneider, S.H. and E. **Marín-Spiotta**. 1999. Distinguishing fact from value? *Trends in Ecology and Evolution* 14: 205-206.

## DATABASES

Lawrence, C.R., et al. 2019. International Soil Radiocarbon Database v 1.0. [10.5281/zenodo.2613911](https://doi.org/10.5281/zenodo.2613911).

## GRANTS

### *Extramural*

1. National Science Foundation EAR: Coevolution of Aeolian Landscapes and Soils. J. Mason (Lead PI) and E. Marín-Spiotta. \$331,900 (2019-2022)



2. U.S. Department of Agriculture McIntire-Stennis: Consequences of Disturbance-Mediated shifts in Structure and Genetic Composition for Ecosystem Function in Experimental Forest Stands. R. Lindroth, E. Kruger and E. Marín-Spiotta. \$128,794 (2019-2021)
3. National Science Foundation Supplemental Award: ADVANCE Partnership: From the Classroom to the Field: Intervention Training to Improve Workplace Climate. E. Marín-Spiotta (Lead PI), R. Primack, P. Templer and V. Magley. \$137,950 (2019-2021)
4. National Science Foundation ADVANCE Partnership: From the Classroom to the Field: Improving the Workplace in the Geosciences. E. Marín-Spiotta (Lead PI), R.T. Barnes, A.A. Berhe, M.G. Hastings, A. Mattheis, B. Schneider and B. Williams. \$1,113,025 (2017-2021)
5. National Science Foundation EAR: Collaborative Research: Vulnerability of carbon in buried soils to climate change and landscape disturbance. E. Marín-Spiotta (Lead PI), J.A. Mason, A.A. Berhe and M. de Graaff. \$776,819 (2016-2019)
6. August-Wilhelm Scheer Visiting Professorship, Technische Universität München 7500Eu (2016)
7. National Science Foundation GSS: CAREER: Land use and environmental controls on soil carbon in human-dominated tropical landscapes. \$425,000 (2014-2019)
8. National Science Foundation ICER: A Workshop to address the role of scientific societies in responding to harassment in the sciences. B. Williams, E. Marín-Spiotta, C. Keane and M.A. Holmes. \$48,250 (2016-2017)
9. National Science Foundation IGERT: Novel ecosystems, rapid change, and no-analog conditions: the future of biodiversity conservation in human-dominated landscapes. V.C. Radelof, C. Gratton, A.R. Ives, S.B. Millar, and A. Rissman. One of 20 faculty participants \$2,529,808 (2012-2017)
10. US Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS): Land use legacies and environmental controls on soil carbon storage in Puerto Rico. \$40,000 (2012-2015)
11. National Science Foundation DEB: LiT: Microbial control on soil C and N cycling during forest recovery: Linking ecosystem processes with microbial function. E. Marín-Spiotta (Lead PI) and T.C. Balser. \$135,000 (2011-2013)
12. National Science Foundation DEB REU Supplement: LiT: Microbial control on soil C and N cycling during forest recovery: Linking ecosystem processes with microbial function. \$15,575 (2012)
13. US AID: TransLinks: Promoting transformation by linking natural resources, economic growth and governance. UW Madison Land Tenure Center. L. Naughton \$23,000 (2010-2011)
14. USDA AFRI Soil Processes. Multi-scale consequences of rotational diversity in Midwestern agricultural systems. S. Grandy, T. Schmidt and E. Marín-Spiotta. \$448,545 (2009-2014)

15. National Science Foundation DEB Research Starter Grant: Spatial interactions between microbes and organic matter across different scales. \$49,992 (2009-2011)
16. National Science Foundation GEO ADVANCE PAID: Collaborative Research: Career advancement for women through the Earth Science Women's Network (ESWN). M.G. Hastings, C. Wiedinmyer, T. Holloway, E. Marín-Spiotta, A. Steiner and S. Laursen \$999,000 (2009-2013)
17. National Science Foundation BIO Minority Postdoctoral Research Fellowship: Sources and fate of dissolved organic matter in tropical wet forest volcanic soils. \$183,000 (2006-2009)
18. Center for Accelerator Mass Spectrometry, Department of Energy Lawrence Livermore National Laboratory: Tropical reforestation: Using radiocarbon in the measurement and modeling of belowground carbon stabilization. \$9696 (2003-2005)
19. High Field Magnetic Resonance Facility, Department of Energy Environmental Molecular Sciences Laboratory, Pacific Northwest National Laboratory: Stabilization of soil organic matter: land use, erosion and burial. User time awarded. E. Marín-Spiotta, M.S. Torn and A.A. Berhe (2004)

*Intramural*

1. H. I. Romnes Faculty Fellowship, University of Wisconsin-Madison \$60,000 (2019-2024)
2. Vilas Associate Award, University of Wisconsin-Madison \$76,000 (2016-2018)
3. Women in Science and Engineering Leadership Institute (WISELI), Celebrating Women in Science and Engineering Grant: Earth Science Women's Network Solving Earth System Problems UW Distinguished Speakers. E. Marín-Spiotta and C. Pettersen. \$1000 (2016-2017)
4. Wisconsin Alumni Research Foundation: Land use legacies on soil carbon across environmental gradients representative of the global tropics. \$33,844 (2014-2015)
5. Wisconsin Alumni Research Foundation: A molecular approach to deciphering ancient human environments. W. Aylward, G. Suen, C. Pepperell, E. Marín-Spiotta, M. Sussman and J. Burton. \$231,000 (2014-2015)
6. Wisconsin Alumni Research Foundation: Legacies of land-use trajectories on above and belowground dynamics in post-agricultural systems. \$41,969 (2012-2013)
7. Wisconsin Alumni Research Foundation: Reconstructing defiant gardens in a World War II Japanese American internment camp: Historical legacies on modern soils. \$34,418 (2011-2012)
8. Wisconsin Alumni Research Foundation: The nature of ancient soil organic matter in buried mineral horizons. \$31,973 (2009)

## INVITED TALKS

The Ohio State University, School of Environment and Natural Resources, Columbus, OH  
43210

University of Wisconsin-Madison Department of Forest and Wildlife Ecology, Madison, WI  
4/2019

Columbia University Lamont-Doherty Earth Observatory, NY 3/2019

Sociologists for Women in Society, Denver, CO 2/2019

Soil Science Society of America International Soils Meeting, San Diego, CA 1/2019

American Geophysical Union Heads and Chairs Workshop, Washington, DC 12/2018

Society for Neuroscience Short-Course on Power Dynamics in Academia, San Diego, CA  
11/2018

National Association of Black Geoscientists Technical Conference Workshop, Houston, TX  
9/2018

National Science Foundation GEO REU Meeting, National Center for Atmospheric Research,  
Boulder, CO 9/2018

University of Wisconsin-Madison Department of Forest and Wildlife Ecology, Madison, WI  
9/2018

**Keynote Talk.** Training and Retaining Leaders in STEM - Geospatial Sciences (TRELIS-GS)  
University Consortium for Geographic Information Science, Madison, WI 5/2018

Short Course: Scientific publishing, science integrity and work ethics: short-course on the  
scientific method and our modern work environment, European Geosciences Union General  
Assembly, Vienna, Austria 4/2018

University of South Carolina College of Arts and Sciences and College of Education,  
Columbus, S.C. 3/2018

University of Wisconsin-Madison Department of Psychology Workshop, Madison, WI  
3/2018

University of Wisconsin-Madison Departments of Sociology and Community and  
Environmental Sociology Workshop, Madison, WI 3/2018

American Geophysical Union Heads and Chairs Workshop, New Orleans, LA 12/2017

American Geophysical Union Annual Fall Meeting, New Orleans, LA 12/2017

Columbia University Arts & Sciences Executive and Policy & Planning Committees 11/2017

UW-Madison Climate, People and Environment Program, Center for Climatic Research 10/2017

Society for the Advancement of Chicanos and Native Americans in Science (SACNAS), Salt  
Lake City 10/2017

Technische Universität München Chair of Soil Science, Freising, Germany 4/2017

Colorado State University Natural Resource Ecology Laboratory/Ecosystem Science and  
Sustainability 3/2017

University of Colorado Boulder Institute of Alpine and Arctic Research, Distinguished Speakers Seminar Series 3/2017

Columbia University Department of Ecology and Evolutionary Biology 1/2017

American Geophysical Union Annual Fall Meeting, San Francisco, CA 12/2015

Princeton University Department of Geosciences 11/2015

Michigan State University Department of Geography 10/2015

UW-Madison, College of Engineering, Environmental Chemistry and Technology 9/2015

Pacific Northwest National Lab Environmental Molecular Sciences Lab 8/2015

Association of Tropical Biology and Conservation, Honolulu, HI 7/2015

AAAS Annual Meeting, San Jose, CA 2/2015

University of Virginia Department of Environmental Science 1/2015

American Geophysical Union Annual Fall Meeting, San Francisco, CA 12/2014

UW-Madison Department of Soil Science 12/2014

**Keynote Talk.** 6th International Conference on Mechanisms of Organic Matter Stabilization and Destabilization in Soils and Sediments, Kiawah Island, SC 10/2014

UW-Madison Latin American, Caribbean and Iberian Studies Center 10/2014

University of Arizona School of Geography and Development 4/2014

University of California, Merced Environmental Systems Seminar 4/2014

University of California, Los Angeles Department of Geography 4/2014

Michigan State University Department of Forestry Hanover Seminar 1/2014

Michigan Technological University Department of Forestry 10/2013

University of Minnesota Quaternary Paleoecology Group 10/2013

Society of Ecological Restoration Annual Meeting, Madison, WI 9/2013

**Keynote Talk.** Gordon Research Conference on Catchment Science: Interactions of Hydrology, Biology & Geochemistry, Catchments Through the Looking Glass: From Microscopes to Telescopes. Andover, NH 5/2013

UW-Madison Molecular Archeology Group Seminar Series 5/2013

NOAA/Geophysics and Fluid Dynamics Lab Biogeochemistry, Ecosystems, and Climate Group. Princeton, NJ 4/2013

University of Pennsylvania Department of Earth and Environmental Science 3/2012

Oklahoma State University Department of Zoology 2/2012

Society for Ecological Restoration, Mérida, Mexico 8/2011

Association of American Geographers, Seattle, WA 4/2011

UW-Madison Center for Culture and History of the Environment 2/2011

Michigan State University Department of Crop and Soil Sciences 10/2010  
American Geophysical Union Meeting of the Americas, Iguacu, Brazil 8/2010  
US AID Biodiversity and Forestry Seminar Series, Washington, D.C. 6/2010  
UW-Madison Center for Limnology and Marine Science 2/2010  
Pennsylvania State University Critical Zone Exploration Network (CZEN) and Worldwide Universities Network (WUN) Workshop on Critical Zone Research 9/2009  
UW-Madison Center for Sustainability and the Global Environment 9/2009  
UW-Madison Department of Soil Science 9/2009  
UW-Madison Land Tenure Center Symposium on Integrating geospatial and field-based science to assess biodiversity conservation: A special forum of women research leaders. 4/2009  
Pennsylvania State University Earth and Environmental Systems Institute, College of Earth and Mineral Sciences & Penn State Institutes of Energy and the Environment 2/2009  
Stanford University Department of Environmental Earth System Science 5/2008  
UW-Madison Department of Geography 4/2008  
University of California, Berkeley Energy and Resources Group 2/2008  
Arizona State University School of Sustainability 2/2008  
University of Puerto Rico, Rio Piedras Ecology Group Lunch Series 1/2003

## **TEACHING**

### INSTRUCTOR

GEOG 120: Intro to the Earth System (Fall 2009, 2010, 2011, 2013, 2014, 2015, 2017, 2018; Spring 2012, 2013, 2014, 2015, 2016, 2019)  
GEOG 526: Human Transformation of Earth Surface Processes (Spring 2015, 2016, 2018, 2019)  
GEOG 338: Environmental Biogeography (Spring 2010, 2014; Fall 2011, 2012, 2013, 2014, 2015, 2017)  
GEOG 920: Plant-Soil Interactions Across Biomes (Fall 2018)  
GEOG 920: Biotic Novelty and Ecosystem Function (Spring 2016)  
GEOG 920: Professional Career Preparation Graduate Seminar (Spring 2014)  
GEOG 930: The Role of Humans in Changing the Face of the Earth (Spring 2013)  
GEOG 920: Soil Organic Matter Dynamics: Stabilization and Destabilization (Fall 2012)  
GEOG 920: Characterizing Organic Matter on Land and Water (Spring 2011)  
GEOG 920: Global Biogeochemical Cycles (Fall 2010)  
Delta Research Mentor Training for Faculty (Fall 2010, Spring 2012, Summer 2013)

### GUEST LECTURER

GEOG 538: The Humid Tropics: Ecology, Subsistence, and Development (2016)  
Molecular and Environmental Toxicology 606: Colloquium in Environmental Toxicology (2014)  
Zoology 955: Sampler of Wisconsin Ecology (2011)  
ES 900: Historical and Cultural Methods in Environmental Research (2011)

GEOG 127: Physical Systems of the Environment (2010)  
GEOG 538: The Humid Tropics: Ecology, Subsistence, and Development (2009)

#### TEACHING PRIOR TO 2009

Ecology (Environmental Science); Mills College, Guest Lecturer (Spring 2007)  
Geography 245: Biogeochemistry; UC Berkeley, Guest Lecturer (Spring 2006)  
ES 10: Intro to Environmental Science; UC Berkeley, Grad Student Instructor (Spring 2006)  
BIO 1B: Plant and Fungal Diversity, Evolution and Ecology; UC Berkeley, Grad Student Instructor (Spring 2005)  
ESPM 11: Forest & Wildland Resource Conservation; UC Berkeley, Guest Lecturer (Fall 2005)  
BIO 147: The Road to Buenos Aires: Controlling Climate Change in the 21st Century; Stanford University, Teaching Assistant (TA) (Fall 1998)  
BIO 13N: Environmental Problems and Solutions; Stanford, Teaching Assistant (Spring 1998)  
BIO 15N: Environmental Literacy; Stanford, Teaching Assistant (Winter 1998)

### **STUDENT ADVISING**

#### GRADUATE STUDENTS

##### Current Student Advisees

1. Laura Szymanski, PhD Geography
2. Ricardo Rivera, PhD Forest and Wildlife Ecology
3. Elliot Vaughan, PhD Geography
4. Emily Diaz Vallejo, MS Geography

##### Past Student Advisees

5. Adam Von Haden, PhD (December 2017) Environment & Resources. Thesis: *Mechanisms of ecosystem carbon storage and stability in temperate bioenergy cropping systems.*
6. Elliot Vaughan, MS (June 2016) Geography. Thesis: *Factors controlling soil carbon and nitrogen storage in Puerto Rico and the Virgin Islands*
7. Laura Szymanski, MS (August 2015) Geography. Thesis: *Soil microbial respiration and carbon turnover under perennial and annual biofuel crops in two agricultural soils*
8. Emily Atkinson, PhD (December 2014) Geography. Thesis: *Land use legacies in tropical dry forests: Linking above- and belowground dynamics*
9. John Souther, MS (May 2014) Geography. Thesis: *Investigating successional dynamics in naturally-regenerated tropical forests of Puerto Rico: Testing and learning from a chronosequence approach*
10. Peyton Smith, PhD (December 2013) Soil Science. Thesis: *Linking microbial community structure and function with tropical forest recovery*
11. Nina T. Chaopricha, PhD (May 2013) Environment and Resources. Thesis: *The Importance, origin, composition, and stability of deeply buried soil organic matter*

12. Emily Eggleston, MS (May 2012) Geography. Thesis: *How Japanese American gardeners shaped internment camp landscape: A soil chemistry and archival analysis*
13. Marc Mayes, MS (May 2011) Environment and Resources. Thesis: *Land use and soil effects on soil organic carbon and nitrogen in the Konya Basin, TR: methods and data for landscape-scale environmental monitoring*

#### **DISSERTATION, THESIS AND QUALIFYING EXAM COMMITTEES**

##### Current

1. Taylor McDowell, MS Geography
2. Hannah Francis, MS Soil Science
3. Karen Russ, PhD Geography
4. Michael Braus, MS Soil Science
5. Jaimie West, MS Soil Science
6. Abbygail McMurtry, MS Biology, Boise State University
7. Manisha Dolui, PhD Environmental Science, UC Merced
8. Katherina Kang, MS Geography, University of North Texas

##### Past

9. Quinn Sorenson, PhD Zoology 2019
10. Seth Spawn, MS Geography 2018
11. Christina Kranz, MS Soil Science 2018
12. Edward Boswell, PhD Soil Science 2018
13. Anna Cates, PhD Agronomy 2018
14. Guiming Zhang, PhD Geography 2018
15. Winslow Hansen, PhD Zoology 2018
16. Eric Nost, PhD Geography 2018
17. Fei Ma, PhD Geography 2017
18. Jacqueline Mejia, PhD Environmental Chemistry and Technology 2017
19. Jing Liu, PhD Geography 2017
20. Fei Du, PhD Geography 2017
21. Laura Smith, PhD Environment and Resources 2017
22. Quinn Sorenson, MS Zoology 2017
23. Chase Kasmerchak, MS Geography 2016
24. Ben Watson, MS Geography 2016
25. Jenifer Yost, MS Soil Science 2016
26. Tera Lewandowski, PhD Forest and Wildlife Ecology 2015
27. Sabrina Ruis, PhD Soil Science 2015
28. Adam Mandelman, PhD Geography 2015
29. Kristine Gruley, PhD Geography 2014
30. Evan Childress, PhD Limnology and Marine Science 2014
31. John Crawford, PhD Limnology and Marine Science 2014
32. Anna Cates, MS Soil Science 2014
33. Luke Loken, MS Limnology and Marine Science 2014
34. Tara Davenport, PhD Environment and Resources 2014
35. Marie Pichler, MS Cartography and GIS 2013

36. Maddy Raudenbush, MS Zoology 2013
37. Samantha Greene, PhD Geography 2013
38. Ana Wells, PhD Soil Science 2012
39. Paul Reyerson, PhD Geography 2012
40. Amy Jo Dusick, MS Environment and Resources 2012
41. Gregg Sanford, PhD Agronomy 2012
42. Sarah Schliemann, PhD Forest and Wildlife Ecology 2011
43. Nathan Boerner, MS Geography 2011

#### **UNDERGRADUATE RESEARCH ASSISTANTS**

*All at UW-Madison unless otherwise noted. Students noted with (\*) were awarded competitive research fellowships.*

1. Chelsie Rodriguez Hernandez, University of Puerto Rico-Mayagüez (Summer 2019)
2. Lily Weglerek, 2018-
3. Alex Roman, 2018-
4. Olivia Lopez\*, 2018-
5. Sanober Mirza\*, 2014-2018
6. Diana Isabel Tapia, 2017-2018
7. Liam Patton, 2015-2018
8. Craig Joseph Kunkel, 2017
9. Ann Catherine Kirwin, 2015-2017
10. Megan Seeley\*, 2013-2017
11. Chris Morgan, 2014-2016
12. Lays Fernanda de Oliveira, Universidade Federal de Lavras, Brazil (Summer 2015)
13. Ashley Avilés, Universidad del Este, Puerto Rico (Summer 2015)
14. Lea Daly, 2015
15. Sandra Kinzer, 2014-2015
16. Diana Macias, 2014
17. Kelsi Wallander, 2014-2015
18. Nawaf Alghamdi, 2013-2014
19. Jessica Rippe Martinez, 2010-2014
20. Doreen Cabrera, California State University Long Beach (Summer 2014)
21. Ada Vilches Ortiz, University of Puerto Rico-Mayagüez (Summer 2013)
22. Breana Nehls, Fall 2013
23. Sam Jensen, 2012-2013
24. Tommy Gorak, Spring 2013
25. Amanda Janczak, 2012-2013
26. Zachary Stewart, 2009-2013
27. Adriana Muñoz Ponce, University of Puerto Rico-Arecibo (REU Fellow)(Summer 2012)
28. Edison Caraballo, Universidad del Turabo, Puerto Rico (REU Fellow)(Summer 2012)
29. Jack Travis, 2012
30. Ross Elder, 2011-2012
31. Dylan Hill, 2009-2010
32. Grace Moran, 2009-2011
33. Jennifer Renzas, 2009-2011
34. Gabrielle Hinahara\*, 2009-2010



Prior to 2009

35. Francesca Hopkins, University of California, Berkeley
36. Karimeh Shamieh, University of California, Berkeley
37. Brandon Zoeckler, University of California, Berkeley

**PROFESSIONAL SERVICE**

**PEER REVIEWER**

*Proposals (Review Panels)*

Department of Energy Biological and Environmental Research  
National Science Foundation Geography and Spatial Sciences (GSS) Doctoral Dissertation  
Research Improvement (DDRI)  
National Science Foundation Ecosystem Science (DEB)  
National Science Foundation Dynamics of Coupled Natural Human Systems (SBE, GEO-AGS)  
National Science Foundation Macrosystems (BIO)  
National Science Foundation Integrative Graduate Education and Research Training (BIO, GEO)  
National Science Foundation SEES Postdoctoral Fellowships  
National Science Foundation ADVANCE Institutional Transformation

*Proposals (ad-hoc Reviewer)*

National Science Foundation Geography and Spatial Sciences (SBE)  
National Science Foundation Geobiology Low-Temperature Geochemistry (EAR)  
National Science Foundation Ecosystem Science (DEB)  
National Science Foundation Hydrologic Sciences (EAR)  
National Science Foundation Integrative Ecological Physiology-Plant Program (IOS)  
National Science Foundation Earth Sciences Postdoctoral Fellowship (GEO-EAR)  
National Science Foundation Dimensions of Biodiversity  
National Science Foundation Partnerships for International Research and Education  
UK Economic and Social Research Council (Environmental Sciences)  
UK Natural Environment Research Council  
NASA EPSCoR (University of Hawai'i)  
Sigma Delta Graduate Women in Science National Fellowships  
Research Foundation Flanders- FWO (Belgium)  
German Research Foundation (DFG)  
Fund for Scientific Research (FNRS) (Belgium)

Three Professional Promotion External Reviews (2016)  
Editorial Review Board Member, Journal Biogeochemistry (2011-Present)  
Yale University Press Book Proposal Reviewer

Reviewer for Journal Papers (>90):

*Agriculture, Ecosystems and Environment; Biogeochemistry; Biotropica; Carbon Balance and  
Management; Catena; Conservation Letters; Earth-Science Reviews; Ecological Applications;  
Ecology; Ecosystems; European Journal of Forest Research; European Journal of Soil Science;  
Forest Ecology and Management; Geochemistry, Geophysics, Geosystems; Geoderma; Global*

*Change Biology; Global Ecology and Biogeography; Journal of Biogeography; Journal of Ecology; Journal of Geophysical Research-Biogeosciences; Journal of Tropical Ecology; Journal of Vegetation Science; Land; Limnology & Oceanography; Nature; Nature Geoscience; Nature Climate Change; Nature Scientific Reports; Plant and Soil; Physical Geography; PLOS ONE; Proceedings of the National Academy of Sciences; Restoration Ecology; Soil Biology and Biochemistry; Soil Horizons; Soil Science Society of America Journal; Sustainability*

## **UNIVERSITY SERVICE**

Diversity Liaisons Fellow (2019-)  
Committee Member, Review of Environmental Conservation Professional MS program, Nelson Institute for Environmental Studies (2019)  
Chair, Climate Committee, Geography (2018-2019, 2019-2020)  
Member, Budget Committee, Geography (2018-2019, 2019-2020)  
Chair, Faculty Search Committee, Geography (2018)  
Panelist, Mid-Career Faculty Chat: Climate and inclusion. Office of the Secretary of the Faculty, UW-Madison (1/2018)  
Finance and Records Committee, Geography (2017-2018)  
Chair, Tenure Committee for Prof. Qunying Huang, Geography  
Advisory Committee for Office for Equity and Diversity (2017-2021)  
Advisory Committee to the Chair, Geography (2015-2016, 2017-2018, 2018-2019)  
Faculty Senator (2010-12, 2015-16)  
Chair, Departmental Services Committee (2015-2016)  
Development and External Relations Committee (2015-2016)  
Faculty and Staff Development Committee (2015-2016)  
Alternate Faculty Senator (2009-10)  
Chair, Curriculum Committee, Wisconsin Ecology (2012-13)  
Member at Large, Executive Committee, Wisconsin Ecology (2010-12) (Elected)  
Co-Chair, Geography Speakers Committee (2010-13)  
Advisor, Physical Geography (Undergrad) (2014-15)  
Advisor, Physical Geography (Grad) (2010-11)  
Advisor, Geography Honors Undergraduate Program (2009-10)  
Advisor, People-Environment Geography (Undergrad) (2009-10)  
Undergraduate Affairs Committee (2014-2015)  
Curriculum Committee (2014-15)  
Geography Future Directions Committee (2011-14)  
Geography Speakers Committee (2009-2010, 2013-14, 2014-15)  
Geography Memorial Committee (2012-13)  
Geography Graduate Affairs and Research (2010-11)  
Departmental Hire Committee Hmong Studies (2009-10)  
Speakers Committee (2009-10)  
Undergraduate Affairs & Curriculum Development (2009-10)  
Reviewer, NSF internal campus competition, Graduate School

## **LEADERSHIP**

Advisory Committee, GeoLatinas Society: Latinas in Geoscience and Planetary Science (2019-)

Member, Education Section Fellows Committee, American Geophysical Union (2019)

Member, Revell Medal Committee, American Geophysical Union (2019)

Judge, Nature Research Award for Innovating Science (2019)

Advisory Group, American Geophysical Union-National Center for Professional Research Ethics partnership (2018-)

Lead Principal Investigator, NSF-funded ADVANCEGeo Partnership program: Empowering geoscientists to transform workplace climate. [serc.carleton.edu/advancegeo/index.html](http://serc.carleton.edu/advancegeo/index.html) (2017-Present)

Leadership Council (2019-) and Board Member (2007-2018), Earth Science Women's Network (ESWN). ESWN is a non-profit organization with >3000 members worldwide dedicated to career development, peer mentoring and community building for women in the geosciences.

Workshop Participant, Fundraising and Development for Nonprofits Conference, Center for Community and Nonprofit Studies, UW-Madison, Madison, WI 9/2019

Workshop Participant, Hearts of Gold, Geosciences Opportunities for Leadership in Diversity, Colorado Springs, CO 7/2018

Workshop Participant, Unity of Purpose for Equitable Representation in Geosciences, sponsored by the National Science Foundation, Arlington, VA 1/2017

Member, American Geophysical Union Ethics Task Force – revised professional society's code of conduct (2016-2017)

Secretary, American Geophysical Union Biogeosciences Section (elected) (2015, 2016)

Steering Committee Member, Sexual Harassment in the Sciences: A Call to Respond Workshop sponsored by the American Geophysical Union, American Association for the Advancement of Science, American Chemical Society, Earth Science Women's Network, and Association for Women Geoscientists and funded by the National Science Foundation (2016)

Town Hall Panelist, Forward Focused Ethics- What is the role of scientific societies in responding to harassment and other workplace climate issues? AGU Fall Meeting 2015

Member, National Ecological Observatory Network (NEON) Biogeochemistry Technical Working Group (2012-2016)

Task Force Member, American Geophysical Union Affiliation and Engagement (2014-2015)

Committee Member, American Geophysical Union Fall Meeting Chair Search (2/2014)

Committee Member, American Geophysical Union Meetings (2013-2014)

Committee Member, American Geophysical Union Biogeosciences Section (2010-13): Coordinated student presentation and travel grant awards

Judge, Outstanding Student Presentation Awards, AGU Biogeosciences (2010-2015)

## **SYNERGISTIC ACTIVITIES**

Co-Convener, Session: Evaluating the influence of geomorphology on carbon cycling. American Geophysical Union (AGU) Fall Meeting 2018

Co-Convener, Session: Reframing the Conversation: Why Diversity in the Geosciences Workforce Matters. American Geophysical Union (AGU) Fall Meeting 2018

Co-Convener, Session: Spatial and temporal heterogeneity in ecosystem response to environmental change. American Association of Geographers (AAG) Annual Meeting 2015

Co-Convener, Session: Urban Ecosystems: Linking Biogeography and Biogeochemistry. AAG Annual Meeting 2013

Co-Convener, Session: Response of Soil Carbon Pools to Land-Use Change: Local to Global Scales. AGU Meeting of the Americas 2010. Iguacu, Brazil

Co-Convener, Session: Organo-Mineral Interactions in the Critical Zone: Mineral Weathering and Carbon Stabilization in Soil. Goldschmidt 2010

Co-Convener, Session: Advances in Biochemical Methods for Studying Organic Matter Dynamics in an Ecological Context. Ecological Society of American (ESA) Annual Meeting 2009

Workshop Leader, Responding to Hostile Climates. AGU Fall Meeting 2018

Workshop Co-organizer, Strategies for Attracting and Advancing a Diverse Geoscience Workforce. AGU Fall Meeting 2017

Workshop Organizer, Opportunities Beyond Academia. AGU Fall Meeting 2017

Workshop Organizer, Opportunities Beyond Academia. AGU Fall Meeting 2016

Workshop Organizer, Opportunities Beyond Academia. AGU Fall Meeting 2015

Workshop Organizer, Opportunities Beyond Academia. AGU Fall Meeting 2014

Workshop Leader, Discussing and addressing sexual harassment in the earth and space sciences. AGU Student and Early Career Scientist Conference. AGU Fall Meeting 2016

Town Hall Organizer, Strategies for Attracting and Advancing a Diverse Geoscience Workforce. AGU Fall Meeting 2016

Town Hall Co-organizer, Awards & Grants: Advancing your early earth science career: Multi-agency perspectives. AGU Fall Meeting 2016

Workshop Leader, Preparing for an Academic Career in the Geosciences: Workshop for Graduate Students and Post-Doctoral Fellows. On the Cutting Edge, UW-Madison 7/2016

Workshop Leader, Preparing for an Academic Career in the Geosciences: Workshop for Graduate Students and Post-Doctoral Fellows. On the Cutting Edge, UW-Madison 5/2015

Workshop Organizer, Succeeding on the Tenure Track. AGU Fall Meeting 2013

Workshop Organizer, Succeeding on the Tenure Track. AGU Fall Meeting 2012

Workshop Co-Organizer, Skills for Networking and Communication, Earth Science Women's Network, University of Wisconsin-Madison 6/2012

Participant, USGS Powell Center Soil Carbon Stabilization Workshop, Ft. Collins, CO 5/2016

Participant, NSF Research Coordinated Network: People and Reforestation in the Tropics (PARTNERS): A Network for Education, Research, and Synthesis Workshop. 5/2014

Participant, Workshop on land management datasets for Earth system modeling, Working Group 4, Terrestrial Biosphere in the Earth System (TERRABITES), Vienna, Austria 4/2013

Participant, Molecular Archeology Group. UW-Madison Expedition to Troy (2013-2015)

Participant, ESWN Career Development Workshop on Building Leadership and Management Skills for Success, Brown University, Providence, RI 6/2013

Participant, ESWN Career Workshop on Defining Your Research Identity, National Center for Atmospheric Research, Boulder, CO 6/2011

Participant, Wisconsin Idea Seminar, UW-Madison 5/2010

Participant, Research Mentor Training for Faculty. UW-Madison Delta Program Fall 2009

Participant, ESWN Career Workshop on Building Leadership Skills for Success in Scientific Organizations, San Francisco, CA 12/2008

Participant, DISCCRS IV, Dissertation Initiative for the Advancement of Climate Change Research Symposium 11/2008

Participant, NSF ADVANCE Negotiating the Ideal Faculty Position Workshop, Rice University (2007)

Participant, The Institute for Teaching and Mentoring, The Compact for Faculty Diversity, NSF Alliances for Graduate Education and the Professoriate (2006, 2007)

Reviewer, Minorities Striving and Pursuing Higher Degrees of Success in Earth System Science (MS PHD'S) Professional Development Fellowship Program (2011, 2012, 2014)

Mentor, NSF Research Experience for Undergraduates (REU) and UW Madison Integrated Biological Sciences Summer Research Program (IBS-SRP) (2012, 2013, 2014)

Mentor, MS PHD's at AGU Annual Fall Meeting (2007, 2008, 2009, 2011)

Mentor, Women in Science and Engineering Residential Learning Community (WISE) Fall Series Seminar, UW Madison (2010, 2011)

Mentor, UW Undergraduate Research Scholars (URS) Program (2009, 2010, 2011, 2013, 2014, 2017, 2018)

Mentor, Ecological Society of America, Strategies for Ecology Education, Diversity and Sustainability: Diverse People for a Diverse Science (SEEDS) Program (2009)

Assistant to the Assistant-Editor, Journal *Climatic Change* (1997-1999)

## **OUTREACH**

ReachDane Head Start Policy Council, 2018-2019

Wisconsin Alumni Association Milwaukee Chapter Badger Café Presentation 12/2018

Hike and Learn, Mentor. Community Environmental Scholars Program, UW-Madison 8/2018

Wisconsin Alumni Association Central Ohio Chapter Founders' Day Presentation in Columbus, OH 4/2018

Wisconsin Alumni Association Fox Valley Chapter Badger Café Presentation in Appleton, WI 3/2018

Women in STEM Symposium, speaker. Madison Museum of Science. Madison, WI 11/2016

STEM Immersion Research Session, presenter. "Why get involved in research as an undergrad? Getting the most out of your college experience." WISCIENCE, the College of Engineering, and the Division of Diversity, Equity, and Educational Achievement, UW-Madison 8/2016 and 2018

Young Scholar's Conference, panelist and moderator. Brown University, Providence, RI 5/2016

Women in Scientific Leadership, panelist. First Annual 4W Summit on Women, Gender and Well-being on Well-Being and Empowerment: Wisconsin and the World. Madison, WI 4/2016

Fighting Gender Discrimination in the Sciences: Dialog with Colleagues, panelist. Sociologists for Women in Society Winter Meeting, Memphis, TN 2/2016

Getting out in the Field: How to Create a Positive Field Experience with a Diverse Team, moderator. Hosted by Earth Science Women's Network, UW-Madison Department of Geography, and Women in Geography 11/2014

Building Communities to Build Careers- Lessons from the Earth Science Women's Network, panelist. Weston Roundtable Series, University of Wisconsin Nelson Institute 11/2014

Challenges and Opportunities for Early Career Ecologists: Perspectives on Academia, panelist. UW-Madison Wisconsin Ecology and Women in Science and Engineering Leadership Institute 9/2014

Skills for Career and Networking, panelist. UW-Madison Nelson Institute for Environmental Studies 11/2013

Taking Charge of Your Career, panelist. UW-Madison Postdoctoral Conference 10/2011

Stand Out: Make a Conference Count, panelist. UW-Madison Department of Geography 10/2010

Undergraduate and graduate training for the challenge of climate change, panelist. UW Madison Department of Forest and Wildlife Ecology 10/2009

Demystifying the post-doc: A Workshop for graduate students, panelist. UW-Madison Department of Geography 10/2009

Keynote speaker, American Association of University Women. Great Explorations for 5-8th grade girls, Walla Walla, WA. 4/2009

### Outreach and Education Abstracts

Schneider, B., R. Barnes, A.A. Berhe, M.G. Hastings, A. Mattheis, B.W. Williams and E. **Marín-Spiotta**. ADVANCEGeo Partnership: Building a sustainable toolkit for bystander intervention training to improve workplace climate. AGU Fall Meeting 12/2018

**Marín-Spiotta**, E., R. Barnes, A.A. Berhe, M.G. Hastings, A. Mattheis, B. Schneider and B.M. Williams. ADVANCEGeo: Building partnerships to transform workplace climate. AGU Fall Meeting 12/2018

**Marín-Spiotta**, E., R. Barnes and A.R. Morris. Peer mentor networks for institutional and cultural change: Lessons from the Earth Science Women's Network (ESWN). Geological Society of America 11/2018

**Marín-Spiotta**, E., R. Barnes, A. Morris, M. Burt, M. Adams and M. Hastings. Peer mentor networks to build more inclusive scientific communities: Lessons from the Earth Science Women's Network (ESWN). European Geosciences Union General Assembly 4/2018

**Marín-Spiotta**, E., R. Barnes, A.A. Berhe, M.G. Hastings, A. Mattheis, B. Schneider and B.M Williams. From the Classroom to the Field: Intervention Training to Address Sexual Harassment in the Geosciences. Invited Panelist for Inclusive Lab and Field Environments, Union Session. AGU Fall Meeting 12/2017

Holmes, M.A., E. **Marín-Spiotta**, and B. Schneider. Harassment as an Ethics Issue. European Geosciences Union General Assembly 4/2017

**Marín-Spiotta**, E. Cultural change is needed to address sexual harassment and discrimination. Social Dimensions of Geoscience Pop-Up Session. AGU Fall Meeting 12/2016

Gilbert, L.A., E. **Marín-Spiotta**, L. LeMay, D.E. Reed, A.R. Desai and H. Macdonald. A New model for the Preparing for an Academic Career in the Geosciences Workshop. AGU Fall Meeting 12/2016

Holloway, T., M. Hastings, R. Barnes, E. Fischer, C. Wiedinmyer, C. Rodriguez, M. Adams and E. **Marín-Spiotta**. Supporting early career women in the geosciences through online peer-mentoring: Lessons from the Earth Science Women's Network (ESWN) AGU Fall Meeting 12/2014

Hastings, M.G., R. Kontak, A. Adams, R. Barnes, E. Fisher, M. Glessmer, T. Holloway, E. **Marín-Spiotta**, C. Rodriguez, A. Steiner, C. Wiedinmyer, and S.L. Laursen. The Earth Science Women's Network (ESWN): A member-driven network approach to supporting women in the Geosciences. AGU Fall Meeting 12/2013

Kontak, R., A.S. Adams, A.M. De Boer, M.G. Hastings, T. Holloway, E. **Marín-Spiotta**, A.L. Steiner, and C. Wiedinmyer. Online and in-person networking among women in the Earth Sciences. AGU Fall Meeting 12/2012

**Marín-Spiotta**, E. Landscape legacies of land use: Reading the trees and soil. Wednesday Night at the Lab Series. UW Alumni Association, Madison, WI 9/2012

Hastings, M.G., R. Kontak, T. Holloway, E. **Marín-Spiotta**, M. Kogan, S.L. Laursen, A. Steiner, and C. Wiedinmyer. Facilitating career advancement for women in the Geosciences through the Earth Science Women's Network (ESWN). *AGU Fall Meeting* 12/2011

Kontak, R., M. Kogan, A.S. Adams, A. DeBoer, M. Hastings, T. Holloway, S.L. Laursen, E. **Marín-Spiotta**, A.L. Steiner, and C. Wiedinmyer. Lessons from the Earth Science Women's Network (ESWN) Workshop "Defining Your Research Identity." *AGU Fall Meeting* 12/2011

Hastings, M.G., R. Kontak, T. Holloway, E. **Marín-Spiotta**, A. Steiner, C. Wiedinmyer, A. Adams, A. De Boer, A. Staudt, and A. Fiore. Networking Skills as a Career Development Practice: Lessons from the Earth Science Women's Network (ESWN). *AGU Fall Meeting* 12/2010

## PROFESSIONAL AFFILIATIONS

American Geophysical Union (AGU)  
European Geosciences Union (EGU)  
Association of American Geographers (AAG)  
Ecological Society of America (ESA)  
Geological Society of America (GSA)  
Earth Science Women's Network (ESWN)  
Association for Women Geoscientists (AWG)  
Society for the Advancement of Chicanos and Native Americans in Science (SACNAS)  
PARTNERS Research Coordinated Network

## MEDIA COVERAGE (selected)

1. Research profiled in "STX's Estate Thomas Experimental Forest: A Resource for the future" by Niki Mazaroli, The Source US Virgin Islands. Published 12 August 2019
2. Interviewed for WORT science radio show "Perpetual Notion Machine" by Kelly Schwartz. 11 July 2019 Sexual Harassment In The Sciences  
<https://www.wortfm.org/sexual-harassment-in-the-sciences/>
3. Interviewed for "#MeToo in Science" by Nina Bertelsen. On Wisconsin. Summer 2019 Issue <https://onwisconsin.uwalumni.com/conversation/metoo-in-science/>
4. Selected for Wikipedia Women in STEM project at Colorado College. Wikipedia Profile
5. Quoted in "Boston University fires geologist found to have harassed women in Antarctica" by Meredith Wadman. Science. Published 12 April 2019  
<https://www.sciencemag.org/news/2019/04/boston-university-fires-geologist-who-sexually-harassed-women-antarctica>
6. Quoted in "BU professor is fired after investigation finds he sexually harassed grad student in Antarctica" by Laura Crimaldi. Boston Globe. Published 13 April 2019  
<https://www.bostonglobe.com/metro/2019/04/13/professor-fired-after-investigation-finds-sexually-harassed-grad-student-antarctica/3n1znPQ3AtLxObZVqMbO6K/story.html>
7. Quoted in "Top U.S. science agency unveils hotly anticipated harassment policy" by Alexandra Witze, Nature 561: 444-445. Published 19 September 2018
8. Quoted in "Fighting sexual harassment in science may mean changing science itself" by Bethany Brookshire, Science News. Published 22 June 2018
9. Quoted in "The Harassment problem in scientific dream jobs" by Sarah Scoles, Outside Magazine. Published 28 May 2018
10. Quoted in "UK survey reveals widespread sexual misconduct by academic staff" by Nisha Gaiand, Nature. doi: 10.1038/d41586-018-04212-2 Published 9 April 2018
11. Quoted in "US science agency will require universities to report sexual harassment" by Alexandra Witze, Nature 554, 287-288 (2018) Published 8 February 2018
12. Interviewed for "What's behind higher education's culture of sexual harassment and assault?" by Becca Heilman. The Daily Tarheel. Published 30 January 2018



13. Interviewed in "Sexual Harassment, the Open Secret of the Scientific Community" by Anne Strainchamps. To The Best of Our Knowledge. Wisconsin Public Radio. Aired 2 December 2017
14. Work featured in "Confronting sexual harassment in science" by Cristine Russell. Scientific American. Published 27 October 2017
15. Interviewed in "Women Breaking Barriers: Career Advice from Leading Women in Business, Technology, and Beyond" feature on OnlineEducation.com by Matt Ashare. Published September 2017
16. Interviewed for "Scientists' sexual-harassment case sparks protests at University of Rochester" by Alexandra Witze. Nature News. Published 14 September 2017
17. Interviewed in "UW Professor addresses sexual harassment in STEM fields." by Susan Maloney. The Badger Herald. Published 5 September 2017
18. Interviewed in "Q&A: Erika Marin-Spiotta is working to develop strategies to fight sexual harassment in science" The Cap Times Published 4 September 2017
19. Work featured in "NSF Grant: AGU and partners aim at gender issues in geoscience." *Eos*, 98, By Billy Williams. Published 10 August 2017
20. Featured in "UW geographer leads initiative against sexual harassment" by Greg Bump. Published 7 August 2017.
21. Work featured in Nelson Institute for Environmental Studies *In Common* Magazine article: "Women in Science: Toward a more equitable workplace" by Jenny Peek, Spring 2017
22. Featured by Colors of STEM. Published 7 December 2016.
23. Featured in "Marin-Spiotta receives 2016 Sulzman Award for Excellence in Education and Mentoring" *Eos*, 97. Published 11 October 2016
24. Research highlighted in Nelson Institute for Environmental Studies *In Common* Magazine article: "Entering an age of novelty" by Jenny Peek, Fall 2016
25. Quoted in "AGU-sponsored workshop targets sexual harassment in the sciences" by JoAnna Wendel in *Eos*, 97, doi:10.1029/2016EO059651. Published 20 September 2016.
26. Quoted in press release from the American Geophysical Union: "Scientific societies speak out against harassment," Published 12 September 2016
27. Featured in *Wisconsin State Journal* Special Insert, College of Letters & Sciences, UW-Madison, "Collaboration, new perspectives unlock discovery" Published 8 May 2016
28. Quoted in "Indecent Advances" by Virginia Gewin in *Nature* 519: 251-253. Published 11 March 2015
29. News and Views, research featured in the article "Sequestration in buried soils" by W.C. Johnson, *Nature Geoscience* 7: 398-399. June 2014
30. *Agence France-Presse*, interviewed for and research featured in the article "Deep underground carbon deposits could pose a global warming threat if exposed," 5/25/2014

31. Wisconsin Public Radio News, interviewed for and research featured in story “Study: Carbon-rich soil could contribute to climate change” by Chuck Quirnbach, 5/26/2014
32. ClimateWire, interviewed for and research featured in the article “Researchers find ancient carbon stored deep beneath Great Plains – study” by Stephanie Paige Ogburn, 5/27/2014
33. NSF Science Now, research featured in [video](#) “Science Now episode 24” by Dena A. Headlee, 6/13/2014
34. Takepart.com online news website, interviewed for and research featured in the article “What lies beneath: giant underground carbon store is a greenhouse gas bomb” by Kristine Wong, 5/31/2014 (linked by news.yahoo.com)
35. Climate News Network, research featured in the blog article “Buried carbon causes deep concern” by Tim Radford, 5/30/2014