

## SHARON JAE HALL

---

Associate Professor, Ecology, Evolution, and Environmental Science,  
School of Life Sciences, Arizona State University, Tempe, AZ 85287

Tel: 480-965-5640; Email: [sharonjhall@asu.edu](mailto:sharonjhall@asu.edu)

Web Site: <http://halllab.asu.edu/>

### EDUCATION

Ph.D. **University of California, Berkeley**, Department of Soil Science, 1998.

Ed.M. **Harvard University**, Graduate School of Education, 1992.

B.S. **Stanford University**, Department of Biological Sciences, 1990.

### HONORS & AWARDS

- Nominated for the Associated Students of ASU Centennial Professorship for excellence in teaching and community service, 2006.
- John D. and Catherine T. MacArthur Professorship for excellence in teaching and scholarship, The Colorado College, 2003-05.
- Gresham Riley Post-Doctoral Scholar, The Colorado College, 1998-99.
- NASA Earth Systems Science Doctoral Fellow, 1996-1998.
- NSF Graduate Fellow, 1994-1996.
- ESA Student Presentation Award, Soil Ecology Section; Providence, Rhode Island, 1996.
- Doctoral Fellow, Dept. of Soil Science, UC Berkeley, 1993.

### POSITIONS HELD

- **Associate Professor**, School of Life Sciences, Arizona State University, 2011-present.
- **Assistant Professor**, School of Life Sciences, Arizona State University, 2005-2011.
- **MacArthur Assistant Professor of Environmental Science**, The Colorado College, 2003-2005, and Assistant Professor, 2001-03.
- **Post-Doctoral Research Associate**, Department of Geological Sciences and Environmental Studies, University of Colorado at Boulder, 1999-2001. Post-doctoral advisor: Dr. Gregory P. Asner
- **Visiting Assistant Professor**, Environmental Science, The Colorado College, 1998-2000.
- **Research Assistant**
  - Channel Islands Research Program (marine ecology), 1991, 1992.
  - Hopkins Marine Station (marine ecology), Stanford University, 1991.
  - Monterey Bay Aquarium, Dept. of Research (marine ecology), 1990-91.
  - Dept. of Comparative Medicine (molecular biology), Stanford University, 1987-90.
- **Teaching Assistant**
  - UC Berkeley: *Soil Development and Classification*, 1995.
  - Stanford University at Hopkins Marine Station: *Subtidal Communities*, 1991. *Problems in Marine Ecology*, 1990.
- **Instructor**
  - Keystone Science School, Environmental Science, grades 7-adult, 1993.
  - Belmont High School, Biological Science, grade 10, 1992.
  - Monterey Bay Aquarium, Marine Ecology, adult, 1989-1991. Teaching video developed: "The Deep Sea & MBARI."
  - Upward Bound, tutor/counselor, grades 9-12, 1991.
  - Jasper Ridge Biological Preserve, Stanford University, docent, 1990.

Manuscripts in Review or in Revision

- Nakase, D.K., A.S. Hartshorn, K.A. Spielmann, and **S.J. Hall**. Eolian deposition and soil fertility in a prehistoric agricultural complex in central Arizona. *Geoarchaeology*, in revision.
- Steele, M.K. et al. (**S.J. Hall**, 7<sup>th</sup> of 17 collaborators). Convergent surface water distributions in U.S. cities. In review at *Ecosystems*.
- Trujillo, J.E., M. Kruse-Peeples, **S.J. Hall**, K. Spielmann, and D. Nakase. Legacies on the landscape: Long-term socio-ecological interaction in the southwestern United States. For: Eaton, M. and P. Landres (eds). *Proceedings of the 2010 Decade of Discovery in the National Landscape Conservation System Conference*, May 24-28, 2010. Albuquerque, NM. Proceedings RMRS-P-000. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fort Collins, CO.

Published Peer-Reviewed Articles and Book Chapters

2014. **Hall, S.J.** Soil and the future of food: Challenges and opportunities for feeding 9 billion people. Chapter 2 in *The Soil Underfoot: Infinite Possibilities for a Finite Resource*, E. Landa and G. Churchman, eds. CRC Press. In press.
2013. Spielmann, K.A, **S.J. Hall**, M. Kruse-Peeples, D. Nakase, and J. Trujillo. Soil texture and agricultural resilience in the prehistoric Southwest: Farming on Perry Mesa, Arizona. In *From Field to Table: Historical ecology of regional subsistence strategies*. Left Coast Press, California.
2013. Groffman, P.M., et al. (**S.J. Hall**, 6<sup>th</sup> of 17 collaborators). In press. Ecological homogenization of urban America. *Frontiers in Ecology and the Environment*.
2013. **Hall, S.J.**, J. Trujillo, D. Nakase, C. Strawhacker, M. Kruse-Peeples, H. Schaafsma, and J. Briggs. Legacies of prehistoric agricultural practices within plant and soil properties across an arid ecosystem. *Ecosystems*, DOI 10.1007/s10021-013-9681-0.
2013. Marusenko, Y., D.P. Huber, and **S.J. Hall**. Fungi mediate nitrous oxide production but not ammonia oxidation in arid and semi-arid soils. *Soil Biology and Biochemistry*, 63: 24-36.
2012. Boone, C., E. Cook, **S.J. Hall**, N.B. Grimm, C. Raish, D. Finch, M. Nation, and A. York. A comparative gradient approach to understanding and managing urban ecosystems. *Urban Ecosystems*, DOI 10.1007/s11252-012-0240-9.
2012. Sponseller, R.A., **S.J. Hall**, D. Huber, N.B. Grimm, J.P. Kaye, C. Clark, and S. Collins. Variation in monsoon precipitation drives spatial and temporal patterns of *Larrea tridentata* growth in the Sonoran Desert. *Functional Ecology*, DOI 10.1111/j.1365-2435.2012.01979.x.
2011. Niu, D., **S.J. Hall**, H. Fu, J. Kang, Y. Qin, and J.J. Elser. Grazing exclusion alters ecosystem carbon pools in Alxa desert steppe. *New Zealand Journal of Agricultural Research*, 54(3): 127-142. DOI 10.1080/00288233.2011.576683.
2011. Cook, E., **S.J. Hall**, and K. Larson. Residential landscapes in an urban socio-ecological context: Multi-scalar drivers and legacies of management practices, ecological structure, and ecosystem services. *Urban Ecosystems*, DOI 10.1007/s11252-011-0197-0.
2011. Pardo, L.H., et al. (**S.J. Hall**, 14<sup>th</sup> of 22 collaborators), Effects of N deposition and empirical critical loads for nitrogen for ecoregions of the United States. *Ecological Applications*, DOI 10.1890/10-2341.1.
2011. Kaye, J.P., S.E. Eckert, D.A. Gonzalez, J.O. Allen, **S.J. Hall**, R.A. Sponseller, and N.B. Grimm. Decomposition of urban atmospheric carbon in Sonoran Desert soils. *Urban Ecosystems*, DOI 10.1007/s11252-011-0173-8.
2011. **Hall, S.J.**, R.A. Sponseller, N.B. Grimm, † D. Huber, J.P. Kaye, C. Clark, and S. Collins. Ecosystem response to nutrient enrichment across an urban airshed in the Sonoran Desert. *Ecological Applications*, 21(3): 640-660.

2011. Marusenko, Y., P. Herckes, and **S.J. Hall**. Distribution of polycyclic aromatic hydrocarbons in soils of urban transportation corridors in an arid ecosystem. *Water, Air, and Soil Pollution*, 219 (1): 473-487. DOI 10.1007/s11270-010-0721-5.
2011. Spielmann, K.A., \*H. Schaafsma, J. Briggs, **S.J. Hall**, and M. Kruse. Legacies on the Landscape: The enduring effects of long-term human-ecosystem interactions. In: M. Nelson, (ed), Movement, Connectivity, and Landscape Change, *Proceedings of the 2008 Southwest Symposium of Archaeology*, Tempe, AZ. University Press of Colorado. 448 pp.  
URL:[http://www.upcolorado.com/book/Proceedings\\_of\\_the\\_Southwest\\_Symposium/Movement\\_Connectivity\\_and\\_Landscape\\_Change\\_in\\_the\\_Ancient\\_Southwest\\_Cloth](http://www.upcolorado.com/book/Proceedings_of_the_Southwest_Symposium/Movement_Connectivity_and_Landscape_Change_in_the_Ancient_Southwest_Cloth)
2010. Larson, K.L., E. Cook, C. Strawhacker, and **S.J. Hall**. The influence of diverse values, ecological structure, and socio-spatial context on residents' multifaceted land-management decisions. *Human Ecology*, DOI 10.1007/s10745-010-9359-6.
2010. Davies, R. and **S.J. Hall**. Direct and indirect effects of urbanization on soil and plant nutrients in desert ecosystems of the Phoenix metropolitan area. *Urban Ecosystems*, 13(2). DOI: 10.1007/s11252-010-0120-0.
2010. **Hall, S.J.** and P.J. Marchand. Effects of stand density on ecosystem properties in subalpine forests of the southern Rocky Mountains. *Annals of Forest Science*, 67:102. DOI: 10.1051/forest/2009083.
2010. **Hall, S.J.** Empirical Critical Loads of Nitrogen for US Ecoregions: Tropical and subtropical humid forests. In: Assessment of Effects of N deposition and Empirical Critical Loads of Nitrogen for Ecoregions of the United States. L.H. Pardo (ed). USDA Forest Service General Technical Report, 200 pp. URL: <http://treearch.fs.fed.us/pubs/38109>
2009. **Hall, S.J.**, B. Ahmed, P. Ortiz, R. Davies, R. Sponseller, and N.B. Grimm. 2009. Urbanization alters soil microbial functioning in the Sonoran Desert. *Ecosystems*, 12:, DOI: 10.1007/s10021-009-9249-1.
2008. **Hall, S.J.** and D. Lombardozzi. Short-term effects of wildfire on montane stream ecosystems in southern Colorado: 1-2 years post burn. *Western North American Naturalist*, 68 (4): 453-462.
2008. **Hall, S.J.**, D. Huber, and N.B. Grimm. Soil N<sub>2</sub>O and NO<sub>x</sub> emissions from an arid urban ecosystem. *Journal of Geophysical Research-Biogeosciences*, (113) G1, G01016
2008. McCrackin, M.L., T.K. Harms, N.B. Grimm, **S.J. Hall**, J.P. Kaye. 2008. Responses of soil microorganisms to resource availability in urban, desert soils. *Biogeochemistry*, (87)2, 143-155.
2007. **Hall, S.J.** and G.P. Asner. Biological invasions alter regional N-oxide emissions in Hawaiian rain forests. *Global Change Biology*, (13) 10, 2143-2160.
2005. Pfirman, S., **S.J. Hall**, and T. Tietenberg. Environmental programs: Liberal arts colleges and interdisciplinary education. *Environmental Science & Technology*, 39 (10): 221A-224A.
2004. **Hall, S.J.**, G. Asner and K. Kitayama. Land use, climate, and substrate controls over soil dynamics and N-oxide emissions in Borneo. *Biogeochemistry*, 70(1): 27-58.
2003. **Hall, S.J.** and P.A. Matson. Nutrient status of tropical rain forests influences soil N dynamics after N additions. *Ecological Monographs*, 73(1): 107-129.
2002. Matson, P., K. Lohse, and **S.J. Hall**. The globalization of nitrogen deposition: consequences for terrestrial ecosystems. *Ambio*, 31(2): 113-119.
2002. **Hall, S.J.** and P.A. Matson. Environmental variables controlling trace gas emissions from forests: Acid Precipitation and Nitrogen Deposition. Pages 279-306 in H. Papen, R. Gasche, and H. Rennenberg, eds. *Trace Gas Exchange in Forest Ecosystems*. Fundamental and Applied Tree Physiology, Book Series, Volume 3. Kluwer Academic Publishers, The Netherlands.
1999. **Hall, S.J.** and P.A. Matson. Nitrogen oxide emissions after nitrogen additions in tropical forests. *Nature*, 400 (6740): 152-155.
1996. **Hall, S.J.**, P.A. Matson, and P.M. Roth. NO<sub>x</sub> Emissions from soil: Implications for air quality modeling in agricultural regions. *Annual Review of Energy and the Environment*, 21: 311-46.

1996. Matson, P.A., C. Billow, **S. Hall**, and J. Zachariassen. Fertilization practices and soil variations control nitrogen oxide emissions from tropical sugar cane. *Journal of Geophysical Research*, (101) D13: 18,533-45.
1993. Coyer, J.A. and **S.J. Hall**. Predation on small northern anchovy (*Engraulis mordax*) by large topsmelt (*Atherinops affinis*). *California Fish and Game* 79(2): 82-84.

Published White Papers and Reports

2009. Cook E., C. Boone, **S.J. Hall**, and M. Nation. Urban long-term research across a Southwest socio-ecological gradient. A White Paper prepared for the US Forest Service Southwest Research Station.
2008. Larson K.L., **S.J. Hall**, E. Cook, B. Funke, C. Strawhacker, and V. Turner. Social-ecological dynamics of residential landscapes: Human drivers of management practices and ecological structure in an urban ecosystem context. The Final Report from an Interdisciplinary Graduate Research and Education Training (IGERT) Workshop 52 pp., School of Sustainability, Arizona State University. URL: <http://caplter.asu.edu/research/research-projects/research-home/research-highlight-9/>.
2005. **Hall, S.J.**, S. Pfirman, and T. Titenberg. Environmental Programs at Liberal Arts Colleges. Findings and Recommendations for the Andrew W. Mellon Foundation. Project Kaleidoscope Volume IV Article Series: What Works, What Matters, What Lasts. URL: [www.pkal.org/documents/EnvironmentalPrograms.cfm](http://www.pkal.org/documents/EnvironmentalPrograms.cfm)

**ABSTRACTS & PRESENTED PAPERS**

\* Graduate students

\*\* Undergraduate students

† Award-winning

2013. \*E. Cook and **S.J. Hall**. Spatial distribution of ecologically relevant atmospheric compounds in native Sonoran Desert protected areas within and surrounding Phoenix, Arizona. 2013 Annual Meeting of the National Atmospheric Deposition Program, October, Park City, UT.
2013. \*E. Cook, P. Padgett, and **S.J. Hall**. Native and non-native desert herbaceous species affected differently by urban air quality. 2013 Annual Meeting of the Ecological Society of America, August, Minneapolis, MN.
2013. \*B. Shrestha, **S.J. Hall**, S. Yabiku, A. York, L. An, D. Ghimire, J. Glick, and S. Murphy. Human community dynamics and social-ecological vulnerability in a biodiversity hotspot. 2013 CAP LTER Symposium, Tempe, AZ.
- †2013. \*E. Cook, P. Padgett, and **S.J. Hall**. Effects of multiple pollutants on growth of desert annual plants. 2013 CAP LTER Symposium, Tempe, AZ.
- †2013. \*D. Huber, K. Lohse, R. Sponseller, and **S.J. Hall**. Climate controls the fate of anthropogenic nitrogen additions in desert ecosystems. 2013 CAP LTER Symposium, Tempe, AZ.
2013. J. Learned, \*D. Huber, \*D. Nakase, E. Vivoni, and **S.J. Hall**. Experimentally validated mathematical modeling reveals the influence of surface rock cover on soil water availability in a semi-arid ecosystem. 2013 CAP LTER Symposium, Tempe, AZ.
2013. \*\*M. Camba, \*\*E. Warkus, \*D. Nakase, and **S.J. Hall**. Surface rock affects succulent distribution in a prehistorically active agricultural landscape. 2013 CAP LTER Symposium, Tempe, AZ.
2012. **S.J. Hall**, \*Y. Marusenko, \*E. Cook, \*D. Huber, and \*K. Wyant. Nutrient enrichment in an arid, urbanizing ecosystem: Snapshots of surprises. 2012 Annual Meeting of the Ecological Society of America, August, Portland, OR.
2012. \*\*B. Ramirez, \*Y. Marusenko, and **S.J. Hall**. Ammonia oxidation across patch types the Sonoran

- Desert. 2012 Annual Meeting of the Ecological Society of America, August, Portland, OR.
2012. \*\*E. Warkus, \*\*M. Camba, \*D. Nakase, \*C. Strawhacker, J. Learned, and S.J. Hall. Effects of surface rock on succulent distribution in a prehistorically active landscape. 2012 Annual Meeting of the Ecological Society of America, August, Portland, OR.
- †2012. \*E. Cook, **S.J. Hall**, and R.A. Sponseller. Nitrogen deposition is lower than expected in the Phoenix metro area. 2011 CAP LTER Poster Symposium, January, Tempe, AZ.
2012. \*Y. Marusenko, \*K. Wyant, **S.J. Hall** and J. Sabo. Links between soil food webs and ecosystem function in urban landscapes. 2011 CAP LTER Poster Symposium, January, Tempe, AZ.
2012. \*\*B. Ramirez, \*Y. Marusenko, and **S.J. Hall**. Ammonia oxidizing communities under legumes in the Sonoran Desert. 2011 CAP LTER Poster Symposium, January, Tempe, AZ.
- †2012. \*\*E. Warkus, \*D. Nakase, and **S.J. Hall**. Effects of surface rock on succulent distribution in the Agua Fria National Monument. 2011 CAP LTER Poster Symposium, January, Tempe, AZ.
- †2012. \*\*M. Schmoker, \*E. Cook, S. Collins, and **S.J. Hall**. Top down vs. bottom up effects on plant production and community composition across an urban-rural gradient. 2011 CAP LTER Poster Symposium, January, Tempe, AZ.
2011. J. Angstmann, **S.J. Hall**, E. February, A. West, N. Allsopp, and W. Bond. Nitrogen deposition in a southern hemisphere biodiversity hotspot within and surrounding Cape Town, South Africa. 2011 American Geophysical Union Fall Meeting, December, San Francisco, CA.
2011. \*E. Cook, **S.J. Hall**, R.A. Sponseller, D.P. Huber, S. Earl, and N.B. Grimm. Atmospheric nitrogen deposition fluxes in arid Phoenix, Arizona: A comparison of sampling methods. 2011 Annual Meeting of the Ecological Society of America, August, Austin, TX.
2011. \*\*M. Schmoker, \*E. Cook, S. Collins, and **S.J. Hall**. Impacts of urban herbivory on primary production of herbaceous annual plants in an arid ecosystem. 2011 Annual Meeting of the Ecological Society of America, August, Austin, TX.
2011. \*J. Sayles, K.L. Larson, \*E. Cook, and **S.J. Hall**. The influence of environmental values & neighborhood context on household & neighborhood biodiversity. 2011 Annual Meeting of the American Association of Geographers, April, Seattle, WA.
2011. \*M. Kruse-Peeples, \*D. Nakase, and **S.J. Hall**. Soil Nutrient Dynamics and Moisture Retention of Prehistoric Runoff Agricultural Systems the Perry Mesa Region, Central Arizona. Organized symposium: Approaches to Prehispanic Agricultural Soils in the New World. 2011 Society for American Archaeology Annual Meeting, April, Sacramento, CA.
2010. \*J. Trujillo, \*D. Nakase, K. Spielmann, \*M. Kruse-Peeples, and **S.J. Hall**. Legacies on the Landscape: Long-term socio-ecological interactions in the US Southwest. 2010 Decade of Discovery Science Symposium, Bureau of Land Management, May, Albuquerque, NM.
2010. \*D. Nakase, T. Hartshorn, and **S.J. Hall**. Fertility and prehistoric farming of semi-arid soils in the southwestern US. 2010 Annual Meeting of the Ecological Society of America, August, Pittsburgh, PA.
2010. \*Y. Marusenko, D. Huber, \*\*P. Ortiz, and **S.J. Hall**. Fungal and bacterial control of the N cycle in arid and semi-arid ecosystems. 2010 Annual Meeting of the Ecological Society of America, August, Pittsburgh, PA.
2009. \*Y. Marusenko, D. Huber, and **S.J. Hall**. Fungi dominate N<sub>2</sub>O production in arid and semi-arid ecosystems. 2009 LTER All Scientists Meeting, Estes Park, Colorado.
2009. \*Y. Marusenko, P. Herckes, and **S.J. Hall**. Fate of PAH compounds in an arid city. 2009 LTER All Scientists Meeting, Estes Park, Colorado.
2009. **S.J. Hall**, R. Sponseller, N.B. Grimm, C. Clark, S. Collins, D. Huber, J.P. Kaye, and J. Allen. Ecosystem response to the urban atmosphere in the Sonoran Desert. 2009 Annual Meeting of the Ecological Society of America, August, Albuquerque, NM.
2009. \*E. Cook, \*C. Strawhacker, K.L. Larson, and **S.J. Hall**. Values and other social drivers of the management and ecological properties of residential landscapes in Phoenix, Arizona. 2009 Annual Meeting of the Ecological Society of America, August, Albuquerque, NM.

2009. \*Y. Marusenko, P. Herckes, and **S.J. Hall**. Fate of PAH compounds in an arid city. 2009 Annual Meeting of the Ecological Society of America, August, Albuquerque, NM.
2009. \*\*M. Salem, \*E. Cook, K.L. Larson, and **S.J. Hall**. Effects of landscape cover on microclimate in urban residential landscapes of the Phoenix metropolitan area. 2009 Annual Meeting of the Association of American Geographers, March, Las Vegas, NV.
2009. K.L. Larson, \*E. Cook, and **S.J. Hall**. Social-ecological dynamics of residential landscapes in an urban ecosystem context. 2009 Annual Meeting of the Association of American Geographers, March, Las Vegas, NV.
2009. \*B. Funke, \*E. Cook, \*C. Strawhacker, \*V. Turner, K.L. Larson, and **S.J. Hall**. Legacy effects and the socio-ecological dynamics of residential landscapes: An interdisciplinary study in Phoenix, AZ. 2009 Annual Meeting of the Association of American Geographers, March, Las Vegas, NV.
- † 2009. \*Y. Marusenko, P. Herckes, and **S.J. Hall**. Fate of PAH compounds in an arid city. 10<sup>th</sup> Annual GELSS Symposium (Graduates in Earth, Life, and Social Sciences), February, Tempe, AZ.
- † 2009. \*C. Strawhacker, \*E. Cook, K. Larson, and **S.J. Hall**. Values and other social drivers of the management and ecological properties of residential landscapes in Phoenix, Arizona. 11<sup>th</sup> Annual Poster Symposium of the Central Arizona-Phoenix Long-Term Ecological Research project, Tempe, AZ.
2008. **S.J. Hall**, \*H. Schaafsma, \*J. Trujillo, and J. Briggs. Legacies of prehistoric agriculture in the arid US Southwest. Organized symposium participant, Combining Archaeological and Ecological Perspectives to Understand the Reciprocal Dynamics of People and the Ecosystems that Sustain Them. 2008 Annual Meeting of the Ecological Society of America, August, Milwaukee, WI.
2008. \*E. Cook, **S.J. Hall**, and K.L. Larson. Drivers of residential landscape structure and functioning: a literature review and synthesis. Ecological Society of America, August, Milwaukee, WI.
2008. K.L. Larson, **S.J. Hall**, \*E. Cook, and \*\*J. Vittall. Exploring social and ecological aspects of residential landscapes in metropolitan Phoenix, AZ. 14th International Symposium on Society and Resource Management, June, Burlington, VT.
2008. J.O. Allen, \*D.A. Gonzales, R.A. Sponseller, **S.J. Hall**, N.B. Grimm. Atmospheric Dry Deposition of Gaseous and Particulate Nitrogen to Urban-Influenced Sonoran Desert Sites in Central Arizona. 18th Conference on Atmospheric Biogeosciences, April, Orlando, Florida.
- † 2008. \*E. Cook, **S.J. Hall**, and K.L. Larson. Drivers of residential landscape structure and functioning: a literature review and synthesis. 9<sup>th</sup> Annual GELSS Symposium (Graduates in Earth, Life, and Social Sciences), February, Tempe, AZ.
2007. Pfirman, S., S. Hall, T. Tietenberg, and D. Rhoten, Interdisciplinary Environmental Programs: Opportunities and Challenges for Faculty and Students. Paper No. 79-13, Geological Society of America Annual Meeting, October, Denver, CO, URL: [http://gsa.confex.com/gsa/2007AM/finalprogram/abstract\\_130742.htm](http://gsa.confex.com/gsa/2007AM/finalprogram/abstract_130742.htm).
2007. **S.J. Hall**, R.A. Sponseller, N.B. Grimm, J.P. Kaye, and J.O. Allen. Ecosystem response to the urban atmosphere in the Sonoran Desert. Ecological Society of America, August, San Jose, California.
2007. \*R. Davies and **S.J. Hall**. Effects of native urban landscape restoration on belowground ecological processes. Ecological Society of America, August, San Jose, California.
2007. \*T. Ontl, \*H. Schaafsma, J. Briggs, and **S.J. Hall**. Legacies of prehistoric agriculture on herbaceous plant community composition in a desert grassland. Ecological Society of America, August, San Jose, California.
2006. K. Spielmann, Briggs, J., and S.J. Hall. The Changing Face of Ecology: Integrating Archaeology and Ecology in the Study of Landscape Transformation. Interdisciplinary Integration and Practice: Reconciling Humans and Nature. XIV International Conference of the Society for Human Ecology, October, Estes Park, CO.

2006. R. Sponseller, **Hall, S.J.**, N.B. Grimm, J. Kaye, J. Allen, D. Huber, \*J. Riddell, Q. Stewart, C. Kochert, and \*\*A. Ghimire. August, 2006. All Scientists Meeting, Long-term Ecological Research Program, Estes Park, CO. *The urban atmosphere alters ecosystem processes in the Sonoran desert*
2006. **S.J. Hall**, N.B. Grimm, and R. Sponseller. Ecosystem responses to the urban atmosphere in the Sonoran desert: Initial patterns. Ecological Society of America Annual Meeting, Memphis, TN.
2005. **S.J. Hall**, and G.P. Asner. Scaling biogenic trace gas emissions from plots to regions: Effects of *Morella faya* (Fire tree) stand size on soil N<sub>2</sub>O and NO<sub>x</sub> fluxes in Hawai'i Volcanoes National Park. Ecological Society of America Annual Meeting, Montreal, Canada.
2005. \*\*C. O'Brady, \*\*J. Creveling, and **S.J. Hall**. Neighborhood effects of N-fixing *M. faya* on understory plant nutrients and soil N cycling. Ecological Society of America Annual Meeting, Montreal, Canada.
2004. J. Ahrens, **S.J. Hall**, P. Marchand, S.A. Johnson. Checking the forest pulse 20 years after disturbance: *Effects of forest thinning on community and ecosystem dynamics*. Ecological Society of America Annual Meeting, Portland, Oregon.
2004. \*\*D.L. Lombardozzi and **S.J. Hall**. *Effects of an invasive, nitrogen-fixing tree on soil trace gas emissions in Hawai'i Volcanoes National Park*. Ecological Society of America Annual Meeting, Portland, Oregon.
2004. Grimm, N.B., J.P. Kaye, **S.J. Hall**, J.O. Allen, and D.B. Lewis: *A distinct urban biogeochemistry?* Ecological Society of America Annual Meeting, Portland, Oregon.
2003. **S.J. Hall**, *Factors controlling nitrification in tropical soils*. Ecological Society of America Annual Meeting, Savannah, Georgia.
2002. **S.J. Hall**, N.B. Grimm, S.L. Collins, \*K. Gade, D. Hope, \*G.D. Jenerette, A.P. Kinzig, J.D. Schade, \*R. Sponseller, \*J.R. Welter, W. Wu, \*T. Flores, \*M. Luck, R. Erikson, and C.Kochert. *NO<sub>x</sub> emissions and uptake by urban soils*. The Fourth Annual Symposium of the Central Arizona-Phoenix Long-Term Ecological Research project, Tempe, AZ.
2001. **Hall, S.J.**, G.P. Asner and K. Kitayama. *Effects of N additions on N-oxide emissions and soil N dynamics across a matrix of land use, elevation, soil age, and soil type in Borneo, Malaysia*. Ecological Society of America Annual Meeting, Madison, Wisconsin.
1998. **Hall, S.J.** and P.A. Matson. *Soil nitrogen dynamics explain patterns of N trace gas losses following N additions in N and P-limited Hawaiian rain forests*. Ecological Society of America Annual Meeting, Baltimore, Maryland.
1997. **Hall, S.J.** and P.A. Matson. *Factors controlling N gas losses in nitrogen fertilized N and P-limited Hawaiian rain forests*. Ecological Society of America Annual Meeting, Albuquerque, New Mexico.
1996. † **Hall, S.J.** and P.A. Matson. *Nitrogen trace gas responses to experimental long-term nitrogen inputs in N and P-limited Hawaiian rain forests*. Ecological Society of America Annual Meeting, Providence, Rhode Island.
1990. Ruehl, W., **S. Hall**, H. Rothermel and R. Moorhead. *Comparative Clinical Pathology of Retroviral Infections in Cats and People*. Proceedings of the Annual Meeting of the American College of Veterinary Pathologists, Phoenix, Arizona.
1990. Ruehl, W.W. and **S.J. Hall**. *Clinical Signs, Laboratory Abnormalities and Survival of Western Cats with Antibodies to FIV*. Proceedings of the Annual Meeting of the American College of Veterinary Internal Medicine, Washington D.C.
1989. **Hall, S.J.** *Intertidal Movements of the Woolly Sculpin, Clinocottus analis*. Hopkins Marine Station Spring Papers. China Point Symposium, Hopkins Marine Station, Monterey,

#### OTHER AFFILIATIONS and ACTIVITIES

- Senior Sustainability Scientist, ASU Global Institute of Sustainability

- Affiliated Faculty: ASU School of Sustainability
- Active in the Central Arizona–Phoenix Long-term Ecological Research community (CAP LTER)

#### **MEMBERSHIPS & CERTIFICATIONS**

- Ecological Society of America, 1995 – present.
- High School Teaching Certification, Grades 9-12, Biological Sciences.