

DR. LEAH H. SAMBERG
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SUMMARY

I am an interdisciplinary scientist with more than 10 years of experience working at the intersection of agriculture, conservation, and human wellbeing in an international context. I am fluent in both ecological and social science methods and approaches and comfortable with a wide range of data analysis tools.

EDUCATION

Ph.D. Environmental Studies	2011	University of California, Santa Cruz
B.A. Ecology & Evolutionary Biology	2003	Dartmouth College, Cum Laude

FELLOWSHIPS

Future Earth Fellow	2014
Fulbright Scholar, Ethiopia	2008

PROFESSIONAL EXPERIENCE: INTERDISCIPLINARY CONSERVATION

2014 –

Conservation Science Partners	Associate Scientist
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Social science research specialist. Design, implementation of surveys, interviews, workshops. Quantitative and qualitative analysis of social data. Coordinate project design with diverse teams. Grant and proposal writing.

2011 –

The Nature Conservancy	Consultant – Conservation and Poverty Reduction
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Evaluate and analyze ecological and social data relating conservation and livelihoods using qualitative and quantitative approaches. Lead efforts to synthesize project outcomes across teams and regions. Coauthor reports on gender in conservation planning, methods for evaluating social impacts of conservation, and linking livelihoods and conservation attitudes. Provide statistical analysis and writing support.

2013 – 2014

University of Montana	Research Associate – Coupled Natural Human Systems
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Synthesized interview, vegetation, and climate data on pastoral management and grassland health on the Tibetan Plateau. Used statistical and qualitative methods to integrate social data into spatial and multivariate models.

2010 – 2011

The Wilderness Institute	Research Associate – Climate Change
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Synthesized science and policy documents to design and author modules for an online toolbox for land managers regarding implications of climate change for wilderness ecosystems, management, and policy.

2008 – 2011

University of California, Santa Cruz	Doctoral Researcher – Agricultural Biodiversity
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Designed and implemented research program to identify social-ecological dynamics linking farmer management and crop diversity in a traditional agricultural system in Ethiopia. Carried out interviews, surveys, focus groups diversity analysis, genetic analysis. Trained field teams; led workshops with farmers, extension, NGOs.

2007 – 2008

The Christensen Fund	Research Associate, Team Leader – Gamo Highlands
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Designed and led assessment of biodiversity, resource management, and livelihoods in a traditional agricultural landscape in Ethiopia. Authored nomination for UN Globally Important Agricultural Heritage Site designation.

2004 – 2005

Universidad Austral de Chile	Research Assistant, Field Crew Leader
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Forest composition study to inform sustainable logging in southern Andes.

2001–2002

Bethel Community Development Centre	Scientist in Residence
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Researcher and instructor, training center for sustainable agriculture and technology, Lesotho

PUBLICATIONS

JOURNAL ARTICLES

- Leisher, C., G. Temsah, F. Booker, M. Day, T. Sunderland, D. Roe, B. Agarwal, D. Russell, D. Wilkie, E. Matthews, **L. Samberg**. (2015). What are the impacts of gender on the governance of forestry and fisheries resources; a systematic map protocol. *Environmental Evidence Journal* 4(13).
- Harris, R.B., **L. Samberg**, *et al.* (in review). Rangeland response to site heterogeneity, pastoralism, and grazing pressure on a Tibetan steppe grassland, Qinghai Province, China. *The Rangeland Journal*.
- Shiue, I., **L. Samberg**, *et al.* 2014. 2014 Future Earth Young Scientists Conference on Integrated Science and Knowledge Co-Production for Ecosystems and Human Well-Being. *International Journal of Environmental Research and Public Health* 11, 11553-11558.
- Leisher, C., **L. Samberg**, P. van Beukering, M. Sanjayan. 2013. "Focal areas for measuring the human well-being impacts of a conservation initiative." *Sustainability* 5(3).
- Samberg, L.**, L. Fishman, F. Allendorf 2013. "Population genetics in a social landscape: Barley in a traditional Ethiopian ecosystem." *Evolutionary Applications* 6(8).
- Samberg, L.**, C. Shennan, E. Zavaleta 2013. "Farmer seed exchange and crop diversity in a changing agricultural landscape in the southern highlands of Ethiopia." *Human Ecology* 41(2).
- Sanjayan, M., **L. Samberg**, T. Boucher, J. Newby. 2012 "Intact faunal assemblages in the modern era." *Conservation Biology* 26(4).
- Leisher, C., *et al.* 2012. "Measuring the benefits and costs of community education and outreach in marine protected areas." *Marine Policy* 36(5). (*L. Samberg – contributor*)
- Leisher, C., *et al.* 2011. "Striking a Balance: Socioeconomic Development and Conservation in Grassland through Community-Based Zoning." *PLOS ONE* 6(12). (*L. Samberg – contributor*)
- Samberg, L.**, C. Shennan, E. Zavaleta. 2010. "Interacting human and environmental forces structure crop diversity in an Ethiopian highland agroecosystem." *Professional Geographer* 62(3).

BOOK CHAPTERS

- Sanjayan, M., **L. Samberg**. The Importance of Extinction to Society. In: *Grzimek's Animal Life Encyclopedia*, 2012 edition. Gale Publishing, Detroit.
- Donoso P., **L. Samberg**, MP Hernández, B. Schlegel. 2009. "The old-growth forests in the Valdivian Andes: composition, structure and growth." In: *Ecological Advances on Chilean Temperate Rainforests*. Academia Press, Belgium.

REPORTS

- Sanjayan, M, C. Leisher, J. Bechtel, K. Morrison, **L. Samberg**. 2013. Amplifying Conservation's Benefit to People. A Gender and Conservation Strategy. TNC.
- Leisher, C., B. Millan, **L. Samberg**, D. Smetana, H. Tallis, J. Fisher. 2012. Nature and Development. TNC.
- Samberg, L.** 2012. Mahale and Whole Village Project Village Household Analysis. TNC.
- Silk, N., **L. Samberg**, R. Surber. 2011. Taking Good Ideas To Scale: Models for Expanding and Accelerating Conservation's Impact. TNC

COMMUNICATIONS (SELECTED)

- Integrating social and ecological science for conservation in traditional agricultural landscapes. **L. Samberg**. Society for Conservation Biology NACCB. Missoula, MT. July 2014
- In search of the 'win-win': Interdisciplinary approaches to conservation in agricultural landscapes. **L. Samberg**. Future Earth Young Scientists Networking Conference. Villa Vigoni, Italy. June 2014.

Africa and globalization: Emerging opportunities for conservation. M. Sanjayan, C. Leisher, T. Boucher, C. Oluchina, **L. Samberg**. Ecological Society of America Annual Meeting. Portland, OR. August 2012.

Nature's last Edens: Intact faunal assemblages in the modern era. **L. Samberg** (presenting author), M. Sanjayan, T. Boucher, J. Newby. Society for Conservation Biology Annual Meeting. Auckland, NZ. December, 2011.

Biophysical and social drivers interact to shape landscape genetics in an ancient Ethiopian agroecosystem. **L. Samberg**. ESA Annual Meeting. Albuquerque NM. August, 2009.

Following the Seed: Patterns of Seed Exchange in the Gamo Highlands, Ethiopia. Association of American Geographers Annual Meeting. Las Vegas, NV. April, 2009.

WORKSHOPS

Farmer Management and Agricultural Diversity. Workshop series with agricultural extension officers and community leaders, Gamo Gofa Zone, Ethiopia. January 2012.

Interacting Forces in a Human Landscape: Patterns of Diversity in the Gamo Highlands, Ethiopia. Arba Minch University and University of Hawasa, Ethiopia. January, 2012.

Agricultural Biodiversity in the Gamo Highlands. Workshop on Status, Potentials, and Challenges of Bio-cultural Diversity Conservation in the SNNPR State, Ethiopia. Arba Minch, Ethiopia. November 2008.

AWARDS AND FUNDING

2015 **Joint Fire Science Program**. *Assessing the implications of changing fuels and fire regimes on management and resiliency in the Sonoran Desert*. (Co-PI; \$350,000).

2014 **Future Earth Fellowship**. Young Scientists Networking Conference: Ecosystems and wellbeing in the green economy. Villa Vigoni, Italy (approx. \$8,000).

2010 **Langenheim Fellowship in Plant Ecology**. *Landscape genetics and farmer seed exchange in ancient agroecosystems: an interdisciplinary and multi-species approach* (\$2,000).

2009 **The Christensen Fund**. *Drivers of crop population structures in the Ethiopian highlands* (\$20,000).

2008 **Fulbright Fellowship**, *Agricultural biodiversity in the highlands of Ethiopia* (\$24,000).

2008 **Center for Tropical Research in Ecology, Agriculture, and Development**. *Patterns of diversity in an Ethiopian highland agroecosystem* (\$1,000)

2007 **The Christensen Fund**. *Agroecological Assessment of the Gamo Highlands* (\$40,000)

2005 **University of California Santa Cruz**. Graduate Fellowship. (~\$30,000)

2003 **Dickey Center for International Understanding**. *Developing sustainable management guidelines from a paired watershed comparison of pristine and partially cut old-growth forests in the Valdivian Andes, Chile* (\$5,000)

TEACHING EXPERIENCE

2015 –	University of Montana Mountains and Society	Adjunct Professor
2006 – 2010	University of California, Santa Cruz Political Economy, Natural Resource Economics, Principles of Sustainable Agriculture, Agroecology Practicum	Teaching Assistant
2003 – 2004	Harvard University Extension School	Writing Tutor
2002 – 2003	Dartmouth College Composition Center	Writing Instructor
2001 – 2002	Bethel Community Development Center, Lesotho Environmental Science	Instructor

SKILLS

Social Science research design and implementation

- Surveys, interviews, and focus group discussions
- Organization and leadership of participatory workshops
- Human wellbeing and household wealth assessments

Ecological survey design, implementation, and analysis

- Forest and grassland vegetation analysis
- Design of transects, experimental plots

Statistical analysis, experimental design, statistical software, GIS

Leadership and management of diverse interdisciplinary teams

Writing and editing of scientific, popular, and creative literature

Fundraising and **grant writing**

Conversational **French**, basic **Spanish**

Backcountry knowledge and experience, including mountaineering, snow safety, climbing and rope skills, backcountry leadership, Outdoor Emergency Care training