Curriculum Vitae: Karl S. Zimmerer

CONTACT INFORMATION

Department of Geography, Pennsylvania State University, 302 Walker; University Park, PA 16802, USA (http://www.geog.psu.edu/people/zimmerer-karl; http://zimmerergeosyntheses.psu.edu/; ksz2@psu.edu)

EDUCATION

Ph.D., 1988, University of California, Berkeley, Department of Geography
M.A., 1985, University of California, Berkeley, Department of Geography
B.S., 1980, Antioch College, Yellow Springs, Ohio, Biology and Physics

UNIVERSITY APPOINTMENTS

Professor (2007-present), Department of Geography, Pennsylvania State University
Head of Department, 2007-2014, Department of Geography, Pennsylvania State University
Director (2007-present), GeoSyntheSES Lab (Geographic Synthesis for Social-Ecological Sustainability), Earth and Environmental Systems Institute, Pennsylvania State University (http://zimmerergeosyntheses.psu.edu/)
Faculty Affiliate (2017-): Rural Sociology Program, Department of Agricultural Economics, Sociology, and Education, Pennsylvania State University
Faculty Affiliate (2018-): Ecology Program, Pennsylvania State University
Institutional Affiliate: Earth and Environmental Systems Institute (EESI); Penn State Institutes for Energy and the Environment (PSIEE); Global Programs (UOGP); Latin American & Caribbean Studies (LiLAC); Pennsylvania State University
Honorary Professor (2017-), Universidad Autónoma de Madrid (UAM)/Autonomous University of Madrid, Departamento de Geografía, Facultad de Filosofía y Letras, Madrid, Spain
Professor, Yale University, School of Forestry & Environmental Studies (FES); Department of Anthropology, Faculty of Arts & Sciences (FAS); Jackson Institute for Global Affairs, (March-August 2005, tenured appointment, offer declined)
Professor (1996-2007), Associate Professor (1993-96), and Assistant Professor (1990-93), University of Wisconsin—Madison, Department of Geography
Faculty Affiliate: University of Wisconsin—Madison, Institute for Environmental Studies, Program in Development Studies, Land Tenure Center, Co-Director: Environment-and-Development Advanced Research Circle (EDARC)
Assistant Professor (1988-1990), University of North Carolina at Chapel Hill, Department of Geography; Faculty Affiliate: Ecology Curriculum and Latin American Studies Center

HONORS AND AWARDS

Honorary Professor, Department of Geography, Autonomous University of Madrid (Universidad Autónoma de Madrid, UAM), Madrid, Spain, 2017-2019

Excellence in Environmental Works, Association of American Publisher's Scholarly Publishing Division, Reference Works, for the *International Encyclopedia of the Social and Behavioral Sciences*, including the volume on the *Ecological and Environmental Sciences* (co-edited by K. S. Zimmerer), 2016

Faculty Scholar Medal for Outstanding Achievement in the Social and Behavioral Sciences, Pennsylvania State University, 2014

Honorary chair and member, Rappaport Prize Panel, Anthropology and the Environment Section of the American Anthropological Association (AAA), 2014

Alexander and Ilse Melamid Medal (for outstanding work on the dynamic relationship between human cultures and natural resources); American Geographical Society (AGS), 2013

Association of American Geographers (AAG), Cultural and Political Ecology Specialty Group (CAPE), Robert McC. Netting Award for Outstanding Research Scholarship in human ecology and environmental sciences, 2013

Fellow (elected), American Association for the Advancement of Science (AAAS), 2012

John Simon Guggenheim Fellowship, Guggenheim Foundation, New York, 2002-03

The Kellett Fellowship Award for Advanced Faculty Research. The Graduate School, University of Wisconsin— Madison, 2000-02

Carl O. Sauer Award for Excellence in Scholarship, Conference of Latin Americanist Geographers, 1999

H.C. Cowles Award for Excellence in Environmental Scholarship, Association of American Geographers, 1998

RESEARCH GRANTS AND FUNDED RESEARCH

A) FUNDED GRANTS FOR RESEARCH, CURRENTLY IN-PROGRESS

2017-20 Linkages of Agrobiodiversity in Urban Systems and Food Producing Landscapes"; Environmental Dynamics of Food Systems, National Socio-Environmental Synthesis Center (SESYNC), National Science Foundation. K. Zimmerer is Lead PI, Lead Co-PI is K. Seto (Yale); Budget is approximately $210,000 (FUNDED; February 2018-20; 2 workshops per year)

2017-20 Diverse Pathways to Nourishment: Understanding How Agricultural Biodiversity Enhances Food Security and Nutrition. Environmental Dynamics of Food Systems, National Socio-Environmental Synthesis Center (SESYNC), National Science Foundation. K. Zimmerer is co-PI; FUNDED; Budget is approximately $190,000)

2017-19 Changing Landscapes of Food-Growing amid Climate Change and Rural-Urban Transitions in Spain; Fulbright FLEX U. S. Scholar Grant, Europe and Eurasia, Research; Fulbright Foreign Scholarship Board and the Bureau of Educational and Cultural Affairs, U.S. Department of State. (FUNDED; 2 months per year, 3 years)

2017-20 Determining and Advancing Sustainable Solutions to Biodiversity, Water, and Food Security amid Climate Change and Rapid Urbanization in Peru;

Penn State – Peru Collaboration Development Fund, Office of Global Programs. K. Zimmerer is Lead co-PI with A. Sabogal (PUCP) and associate co-PIs (Carleen Maitland, Tomás Carlo, David Baker, Martha Bell); budget is $14,500. (FUNDED; notification August 25, 2017)

2015-18 Territorial Approaches to Environmental Planning amid New Resource Extraction, Social Conflicts, and Scientific Knowledge Systems. David Rockefeller Residential Faculty Fellowship, Center for Latin American Studies and Sustainability Science, Harvard University. January-July 2016. (FUNDED)

2015-17 Gender Research and Integrated Training Program, Consultative Group on International Agricultural Research (CGIAR). K. Zimmerer is co-PI, with C. Sachs and others, funded November 2015; budget is $182,623 (FUNDED)

2015 Fulbright Specialist Grant, Latin America, Program Evaluation and Design for Teaching and Research in Environmental Science and Global Change in Peru; Fulbright Foreign Scholarship Board and the Bureau of Educational and Cultural Affairs, U.S. Department of State (FUNDED)

2014-18 International Agrobiodiversity Collaboratory and Forum: Agrobiodiversity in the 21st Century and an Integrative Scientific Framework for Transformative Sustainability. Ernst Strungmann Forum, Frankfurt, Germany. K. Zimmerer is Co-Leader with S. de Haan (FUNDED)

B) FUNDED GRANTS FOR EDUCATION AND TEACHING, CURRENTLY IN-PROGRESS

2017-18 Development of proposed new course on Society, Environment, and Food to be designed as integrative general education for Gen Ed social science and Gen Ed natural science, intermediate-level, Seed Grant for General Education Integrative Studies, Office for General Education, Penn State (FUNDED; notification April 28, 2017)

2015-18 Local Lead, InTeGrate Program, Development of the introductory on-line course on "Environment and Food" (aka "Future of Food"), Geosciences Program, National Science Foundation. K. Zimmerer is course co-PI; $98,500. (FUNDED)

C) RESEARCH GRANTS, CURRENTLY UNDER REVIEW, RECENT, & IN PREPARATION (2017-2018)

2018 Identifying Agrobiodiversity and Nutrition Changes and Supporting Resilience and Food Environment Sustainability among Smallholders in the Andes. McKnight Foundation. K. Zimmerer is Co-Lead PI (submitted August 17, 2018; $350,000)

2018 Entender cómo los biohuertos urbanos y periurbanos aportan a la sostenibilidad socioecologica de la ciudad (Understanding How Urban and Periurban Gardens Contribute to Urban Sustainability). Consejo Nacional de Ciencia, Tecnología, e Inovación Tecnológica/CONCYTEC (Peru, equivalent

of U.S. National Science Foundation). K. Zimmerer is Co-PI (submitted July 5, 2018; 261,740 Peruvian Soles, $78,522)

2018 *Community Informatics Ecosystem Science* (CIES) for the Anthropocene. Convergence Research, Multiple Directorates, National Science Foundation (NSF). K. Zimmerer is Co-PI (submitted May 1, 2018; $1,200,000)

2018 Interactions of Biodiversity, Diet, and the Human Microbiome with Obesity in Urban and Rural Settlements in Peru and Vietnam. Seed grant, Human Health and the Environment initiative, Penn State. K. Zimmerer is Co-Lead PI (pre-proposal submitted February 15, 2018; $49,600; PROJECT DECLINED)

2017-8 Using Big Data and spatial analysis in genetic resource management to incorporate citizen science and expert knowledge mapping across ex-situ, in-situ, on-farm, land use, and food system linkages. CGIAR, Consultative Group for International Agricultural Research K. Zimmerer is co-PI (submitted April 1, 2017; $1.8 million; PROJECT DECLINED)

2017-8 Conservation of agrobiodiversity through value addition and strengthening of the social-ecological resilience of coupled systems. International Climate Initiative (IKI), ($5.0 million; K. Zimmerer is co-Lead PI; team of six co-PIs); submitted July 1, 2017; PROJECT DECLINED)

2017 Health and the global food system: Interactions of the human microbiome with food biodiversity in the global nutritional transition. Seed grant, Human Health and the Environment initiative, Penn State (proposal submitted April 15, 2017; pre-proposal submitted February 10, 2017; $36,000; PROJECT DECLINED)

2017 Human-environment systems of land use biodiversity amid global change in tropical mountain hotspots. George H. Deike Jr. Research Grant, College of Earth and Mineral Sciences. Penn State (PROJECT DECLINED, submitted February 15, 2017).

D) RESEARCH GRANTS, COMPLETED

2016-18 Elucidating Pathways from Agrobiodiversity to Dietary Diversity in Peru; Daniel and Nina Carasso Foundation. K. Zimmerer is co-PI, with H. Creed-Kanashiro, A. Jones, and S. de Haan; budget is $264,145. (COMPLETED; notification January 15, 2016)

2017-18 Linking Banana Xanthomonas Wilt and Agro-Ecological Intensification to Food Practices in Kabarole District, Uganda. K. Zimmerer is PI, with S. Cavallo (co-PI). US AID Borlaug Program in Food Security; budget is $25,000. (COMPLETED)

2016-18 Comparing High Value Agricultural Commodity Chains and the Consequences for Bioversity and Food Security: The Cases of Quinoa in Peru and Teff in Ethiopia. K. Zimmerer is PI, with A. Adams (co-PI, currently withdrawn). US AID Borlaug Program in Food Security; budget is $28,000. (FUNDED, DECLINED)

2015-17 Local and Regional Food Systems, Soil Phosphorus, and Resilience in a Regional Farmers Market Network. NSF Geography and Spatial Sciences Program, Doctoral Dissertation Fellowship, National Science Foundation. K. Zimmerer is PI (with R. Hedberg); $10,362. (COMPLETED)

2015-17 Local and Regional Food Systems, Soil Phosphorus, and Resilience in a Regional Farmers Market Network. USDA National Institute of Food and Agriculture (NIFA), Northeast Sustainable Agriculture Research and Education Program (SARE). K. Zimmerer is PI (with R. Hedberg); $14,796. (COMPLETED)

2015-17 Transitioning Agrarian Livelihoods and Ecologies: Climate Change, Food Security, and Agrobiodiversity in Rwanda's Western Highlands. K. Zimmerer is PI, with N. Clay (co-PI). US AID Borlaug Program in Food Security; budget is $40,000. (COMPLETED)

2015-17 HoneycombPSU: Citizen Science and Pollinator Corridors at the Intersection of Biodiversity and Ecosystem Functioning; Ecology Institute, Huck Institutes of the Life Sciences. With M. Kelly and M. D. Ebersole. (COMPLETED)

2015-16 Agrobiodiversity, Food, and Health: New Territorial Ordering in Mexico, Colombia, and Peru. Rockefeller Foundation, Bellagio Center, Italy. (COMPLETED)

2015-16 Outscaling a Citizen Science Approach to Climate Adaptation and Agrobiodiversity Options Using Seed Systems; Bioversity International (CGIAR); Ethiopia, India, and Central America. K. Zimmerer is Penn State PI ($55,000; 2 years). (COMPLETED)

2015-16 Global Food and Water Security: Speaker Series. Penn State Institutes for Energy and the Environment (with H. Lin and others; $25,000). (COMPLETED)

2011-15 RCN, NSF-Ecosystem Science, Ecology, Land Use, and Management of Tropical Montane Forests. National Science Foundation. K. Zimmerer is Senior Personnel, with P. Martin (PI, Colorado State) and multiple co-PIs; $510,000. (COMPLETED)

2012-13 Maize Cultivation and the Politics of Agricultural Modernization in Mexico's Central Highlands; NSF Geography and Spatial Sciences Program, Doctoral Dissertation Fellowship, National Science Foundation. K. Zimmerer is PI (with E. Mullaney); $15,362. (COMPLETED)

2010-13 Andean Gristmills: Relations between Technology, Environment and Society in Colonial Peru, NSF Geography and Spatial Sciences Program, Doctoral Dissertation Fellowship, National Science Foundation, K. Zimmerer is PI (with M. G. Bell); $12,500. (COMPLETED)

2008-13 Agents of Change in Agriculture and the Environment: Land-User Interactions and Spatial Externalities in Organic Farming (Upper Midwest, USA) and Agrobiodiversity Production (Bolivia). Human and Social Dynamics Program (Agents of Change), National Science Foundation, K. Zimmerer is PI, co-PIs B. L. Barham, A. Burnicki, J. Burt, D. Lewis; $713,839. (COMPLETED)

2007-10	Intensification of Dryland Oceanic Agriculture and Human-Environmental Change in Hawaii. Biocomplexity Program (Coupled Human Natural Systems), National Science Foundation, with P. Vitousek, O. Chadwick, P. Kirch, and others; K. Zimmerer is Senior Personnel; $453,000.
2004-05	Rural-Urban Dynamics and Landscape Concepts of International Environmental Science, Andean Peasants, and State Rulers. Research Fellowship, Agrarian Studies Program, Yale University.
2003-05	Agrobiodiversity and Development of Meso-Scale Irrigation in Tropical Mountain Ecosystems of Peru and Bolivia (Geography and Regional Science Program, National Science Foundation, 4-year project approved for funding starting June 15, 2003).
2003	The Rural-Urban Geography of Global Conservation and Resource Management in Latin America, Europe, and the United States. The Graduate School, University of Wisconsin—Madison.
2002-03	The Rural-Urban Geography of Global Conservation and Resource Management in Latin America, Europe, and the United States. John Simon Guggenheim Memorial Foundation Fellowship.
2002-03	"Social-Environmental Dynamics of Malaria Eradication in Northwest Argentina, 1900-present." Geography and Regional Science Program, National Science Foundation (with E. D. Carter) Geography and Regional Science Program, National Science Foundation.
1999-2004	New Geographies of Conservation and Development Change, Environment and Development Advanced Research Circle (EDARC) (Co-Director, with Professor Bradford Barham, Department of Agricultural Economics); Research funded by International Institute, Latin American and Iberian Studies Program, Institute for Environmental Studies (University of Wisconsin—Madison).
2000	Socio-Environmental Scaling in the Irrigation Development of Western South America. The Graduate School, University of Wisconsin—Madison.
1999-2001	Socio-Environmental Dynamics and Landscape History of the Biological Invasion of Pasture Grasses: The Case of Kikuyu Grass in Southern Peru (with F. L. González) Geography and Regional Science Program, National Science Foundation.
1998-2000	Nature-Society Relations, Protected Areas, and Development in Mexico and Peru. Vilas Associate, The Graduate School, University of Wisconsin—Madison.
1998	The Cultural Landscapes of the Andes Mountains: Changing Representations of Nature and Natives during European Colonialism (1532-1830). Institute for Research in the Humanities (HRI), University of Wisconsin—Madison.
1998-99	The Political Ecology of Agro-Environmental Changes and Regional Free Trade (MERCOSUR) in Brazil and Paraguay (with C. J. Rosin). Geography and Regional Science Program, National Science Foundation.

1998-99	Anthropogenic and Natural Disturbances in Andean Forests during the Twentieth Century (with M. J. Batek) Geography and Regional Science Program, National Science Foundation.
1997-98	Analysis of Landscape Change in Latin America using Aerial Photography and GIS (with E. L. Parker) Holstrum Environmental Scholarship Grant, UW—Madison.
1997	Faculty Sabbatical (Teaching development and research) (Fall semester, 1997) The University of Wisconsin—Madison.
1996	The Origins of Andean Irrigation. The Graduate School, University of Wisconsin—Madison.
1994-95	Resource Use, Economic Change, and Local Soil Knowledge Among Small-Scale Producers of Ilha Ituqui, Para, Brazil (with A. M.G.A. WinklerPrins). Geography and Regional Science Program, National Science Foundation.
1994-95	Environmental Degradation and Agricultural Change in Western Sao Paulo, Brazil, 1900-1980 (with C. Brannstrom) Geography and Regional Science Program, National Science Foundation.
1995	Conservationist Ideas and Policy in Latin America during the 20th Century. The Graduate School, University of Wisconsin—Madison.
1994-5	Floodwater Farming and Common Property in the Smallholder Agriculture of Highland Bolivia: The History of 'Subsidies' from Society and Nature. The Land Tenure Center, University of Wisconsin—Madison.
1993	Human Habitat Modification and the Biodiversity of Non-cultivated Plants in the Tropical Andes. The Graduate School, University of Wisconsin—Madison.
1992	Andean Environmental Change during the 16th and 17th Centuries. The Graduate School, University of Wisconsin—Madison.
1991-3	Soil Erosion and Agricultural Change in Highland Bolivia. Geography and Regional Science Program, National Science Foundation.
1991	Social Movements, Peasant Perceptions, and Soil Erosion. Post-Doctoral Research Grant, Social Science Research Council.
1989	John T. Lupton Award for Research in the Social Sciences. University of North Carolina, Chapel Hill.
1986-7	Dissertation Improvement Grant; Geography and Regional Science Program, National Science Foundation (with J. Parsons).
1986-7	Fulbright-Hays Doctoral Dissertation Research Abroad Fellowship.
1986-7	International Doctoral Research Fellowship. Social Science Research Council.
1985,	Tinker Foundation Travel Grants for Latin American Research
1983	Center for Latin American Studies, University of California, Berkeley.
1985	J. Noyes Foundation Post-Course Research Grant. Organization for Tropical Studies (OTS), Duke University and Costa Rica.
1984	Food Plant Biodiversity and Agricultural Development in Northern Peru. Master's Thesis Fellowship, Inter-American Foundation.

PUBLICATIONS

A) BOOKS

Zimmerer, K. S., and S. de Haan, eds. (2018, accepted and forthcoming). *Agrobiodiversity: Integrating Knowledge for a Sustainable Future*. Cambridge: Massachusetts Institute of Technology Press.

Fischer-Kowalski, M., Rau, H., Zimmerer, K. S., eds. (2015). *International Encyclopedia of the Social and Behavioral Sciences, Second Edition*, Area 9/1e - Ecological and Environmental Sciences. Oxford: Elsevier. 748 pp.

Zimmerer, K. S., ed. (2013). *The New Geographies of Energy: Assessment and Analysis of Critical Landscapes*. London and New York. Routledge Publishers. 283 pp.

Zimmerer, K. S., ed. (2006). *Globalization and the New Geographies of Environmental Conservation*. Chicago. University of Chicago Press. 363 pp.

Zimmerer, K. S., and Bassett, T., Editors. (2003): *Political Ecology: An Integrative Approach to Geography and Environment-Development Studies*. New York. Guilford Publications. 310 pp.

Zimmerer, K. S., Young, K., eds. (1998). *Nature's Geography: New Lessons for Conservation in Developing Countries* (Senior Editor). Madison. The University of Wisconsin Press. 351 pp.

Zimmerer, K. S. (1996). *Changing Fortunes: Biodiversity and Peasant Livelihood in the Peruvian Andes*. Lead monograph: California Studies in Critical Human Geography. Berkeley and Los Angeles. University of California Press. 309 pp.

B) JOURNAL ARTICLES AND BOOK CHAPTERS

Zimmerer, K. S., Jones, A. D., de Haan, S., Creed-Kanashiro, H., Carrasco, M., Mesa, K., Tello, M., Tubbeh, R., and G. Cruz García (2018). Climate change and food: Challenges and opportunities in tropical mountains and agrobiodiversity hotspots. *ReVista: Harvard Review of Latin America* 12(3): 53-57. https://revista.drclas.harvard.edu/book/climate-change-and-food

Jones, A. D., Creed-Kanashiro, H., Zimmerer, K. S., de Haan, S., Carrasco, M., Mesa, K., Tello, M., Cruz García, G., Tello M., Plasencia Amayo, F. (2018). Farm-level agricultural biodiversity in Peru is associated with greater odds of women achieving a minimally diverse and micronutrient adequate diet. *Journal of Nutrition*

Zimmerer, K. S., Lambin, E.F., Vanek, S.J. (2018). Smallholder telecoupling and potential sustainability. *Ecology and Society* **23** (1): 30. [online, pp. 1-17] URL: https://www.ecologyandsociety.org/vol23/iss1/art30/

Liu, J., Dou Y., Batistella M., Challies, M., Connor T., Friis, C., Huettmann, F, Millington, J. D. A., … Zimmerer, K. S…. (2018). Spillover systems in a telecoupled Anthropocene: Typology, methods, and governance for global sustainability. *Current Opinion in Environmental Sustainability* **33**, 58-69.

Zimmerer, K. S., de Haan, S. (2017). Agrobiodiversity and a sustainable food future. *Nature Plants* **3**: 1-3. DOI: 10.1038/nplants.2017.47.

Zimmerer, K. S. (2017). The political ecology and social ecology of energy. In *Handbook on the Geographies of Energy*, eds. Calvert, K.E., and B.D. Solomon, pp. 465-476. Cheltenham, UK: Edward Elgar.

Zimmerer, K. S. (2017). New postcolonial insight on gender, indigeneity, and development, and refractions to environment and health issues. *Progress in Human Geography* http://journals.sagepub.com/doi/pdf/10.1177/0309132517691629, pp. 3-5.

Zimmerer, K. S. (2017). 'Territorial Ordering' (*Ordenamiento Territorial*): A 'new' mode of land use planning and a multi-scale idea for urban-rural integration and their implications for next-generation conservation. In *The Urban and the Territorial: Housing in Mérida*, eds. D.E. Davis, J. Castillo, and R. Segovia, pp. 65-74. Cambridge: Harvard Graduate School of Design.

Zimmerer, K. S. (2017). Geography and the study of human-environment relations. In: *International Encyclopedia of Geography: People, the Earth, Environment, and Technology*, eds. Richardson, D., Castree, N., Goodchild, M., Liu, W., Kobayashi, A., and Marston, R. (Oxford: John Wiley & Sons), pp. 1-23.

Zimmerer, K. S. (2017). Bridging new sustainable development goals, global agendas, and landscape stewardship: The roles of politics, ethics, and sustainability practice. In: *The Science and Practice of Landscape Stewardship*, eds. Bieling, C., and T. Plieninger. Cambridgeshire: Cambridge University Press, pp. 311-327.

Zimmerer, K. S., Córdova, H., Mata Olmos, R., Jiménez Olivencia, Y., Vanek, S.J. (2017). Mountain ecology, remoteness, and the rise of agrobiodiversity: Tracing the spaces of human-environment knowledge. *Annals of the Association of American Geographers* **107** (2), 441-455. http://dx.doi.org/10.1080/24694452.2016.1235482.

Zimmerer, K. S., Córdova, H., Mata Olmos, R., Jiménez Olivencia, Y., Vanek, S.J. (2017). Support Information (SI) for Mountain ecology, remoteness, and the rise of agrobiodiversity: Tracing the spaces of human-environment knowledge. *Annals of the Association of American Geographers* issue 2 (March), Support Information, pp. 1-17.

Zimmerer, K. S. (2017). A search for food sovereignty: Seeding post-conflict landscapes. *ReVista: Harvard Review of Latin America* **26** (2), 32-34. (http://revista.drclas.harvard.edu/book/search-food-sovereignty)

Van Etten, J., Steinke, J. van de Gevel, J., Mathur, P., Fadda, C., Mittra, S., Zimmerer K. S., et al. (2017) First experiences with a novel citizen science approach: Crowdsourcing farmers' observations and preferences through on-farm triadic comparisons of technologies (tricot). *Experimental Agriculture*, pp. 1-22, (pre-publication released December 21, 2017; https://doi.org/10.1017/S0014479716000739

Zimmerer, K. S. (2016). Agrobiodiversity as jazz improvisation: Foodscape change and continuity. *ReVista: Harvard Review of Latin America* **16**, 10-13. http://revista.drclas.harvard.edu/book/agrobiodiversity-jazz-improvisation-foodscape-change-and-continuity-0.

Zimmerer, K. S., Vanek, S.J. (2016). Toward the integrated framework analysis of linkages among agrobiodiversity, livelihood diversification, ecological systems, and potential sustainability amid global change. *LAND (Journal of Land Use and Land Management)* **5**, 1-26 [Special Issue, 'Changing Land Use, Changing Livelihoods']. http://www.mdpi.com/2073-445X/5/2/10/htm.

Zimmerer, K. S., and Rojas Vaca, H.L. (2016). Fine-grain spatial patterning and dynamics of land use and agrobiodiversity amid global changes in the Bolivian Andes. *Regional Environmental Change* 1-16. doi 10.1007/s10113-015-0897-8.

Zimmerer, K. S., Carney, J.A., Vanek, S.J. (2015). Sustainable smallholder intensification in global change? Pivotal spatial interactions, gendered livelihoods, and agrobiodiversity. *Current Opinion in Environmental Sustainability* **14**, 49-60.

Zimmerer, K. S. (2015). Understanding agrobiodiversity and the rise of resilience: Analytic category, boundary concept, or meta-level transition? In: *Resilience: International Policies, Practices and Discourses* **3**, 183-198.

Zimmerer, K. S., Bell, M.G. (2015). Time for change: Legacy of a Euro-Andean model of landscape versus the need for landscape connectivity. *Landscape and Urban Planning* **139**, 104-116.

Zimmerer, K. S., Bell, M.G. (2015). Supplement to 'Time for change: Legacy of a Euro-Andean model of landscape versus the need for landscape connectivity.' *Landscape and Urban Planning* (on-line **Supplement**), pp. 1-16.

Zimmerer, K. S. (2015). Methods and environmental science in political ecology. In: *The Routledge Handbook of Political Ecology*, eds. Perreault, T., Bridge, G., McCarthy, J. pp. 150-168. Oxford, UK: Routledge.

Zimmerer, K. S. (2015). Environmental governance through 'Speaking like an indigenous state' and respatializing resources: Ethical livelihood concepts as versatility or verisimilitude? *Geoforum* **64**, 314-324.

Zimmerer, K. S. (2014). Conserving agrobiodiversity amid global change, migration, and nontraditional livelihood networks: The dynamic use of cultural landscape knowledge. *Ecology and Society* **19**, 1-15.

Zimmerer, K. S. (2014). Producing news, knowing science? Geographic scale and scalar framing in Who Speaks for the Climate? *Dialogues in Human Geography* **3**, 304-306.

Eakin, H. DeFries, R., Kerr, S., Lambin, E.F., Liu, J., Marcotullio, P.J., Messerli, P., Reenberg, A., Rueda, X., Swaffield, S.R., Wicke, B., Zimmerer, K. S. (2013). Significance of telecoupling for exploration of land use change. In: *Rethinking Global Land Use in an Urban Era*, Eds. Seto, K. and Reenberg, A., 141-162.

Zimmerer, K. S. (2013). The compatibility of agricultural intensification in a global hotspot of smallholder agrobiodiversity (Bolivia). In: *Proceedings of the National Academy of Sciences* (PNAS) **110**, 2769–2774. **Supporting Information**, pp. 1-4.

Zimmerer, K. S. (2013). Geographic approaches to LTSER: Principal themes and concepts with a case study of Andes-Amazon watersheds. In: *Long Term Socio-Ecological Research: Studies in society-nature interactions across spatial and temporal scales*, Eds. Singh. J., Haberl, S., Chertow, M., Mirtl, M. Schmid, M. (Dordrecht: Springer Scientific), pp. 163-187.

Zimmerer, K. S., Bell, M.G. (2013). An early framework of national land use and geovisualization: Policy attributes and application of Pulgar Vidal's state-indigenous vision of Peru (1941-present). *Land Use Policy* **30**, 305–16.

Zimmerer, K. S. (2013). Approaching the new geographies of global energy: Analytics and assessment of current energy landscapes and alternatives. In: *The New Geographies of Energy*, ed. Zimmerer, K. S. (London and New York: Routledge Publishers), pp. 1-10.

Zimmerer, K. S. (2012). The indigenous Andean concept of *kawsay*, the politics of knowledge and development, and the borderlands of environmental sustainability in Latin America. *Publications of the Modern Language Association (PMLA)* **127**, 600-606.

Zimmerer, K. S. (2012). Agrobiodiversity and water resources in agricultural landscape evolution. In: *Biodiversity in Agriculture: Domestication, evolution, and sustainability*, eds. Gepts, P., Famula, T., Bettinger, R., Brush, S., Damania, A., McGuire, P., Qualset, C. (Cambridge: Cambridge University Press), pp. 464-473.

Zimmerer, K. S. (2012). Cultural ecology and human ecology: Core concepts and advances in current human-environmental and nature-society studies. In: *Oxford Knowledge Systems in Geography*, ed. Warf, B. (New York: Oxford University Press), http://www.oxfordbibliographies.com/view/document/obo-9780199874002/obo-9780199874002-0041.xml

Zimmerer, K. S. (2011). Conservation booms, land use transitions, and environmental governance in Latin America, 1985-2008 (Mexico, Costa Rica, Brazil, Peru, Bolivia). *Latin American Research Review* **46**, 82-114.

Zimmerer, K. S. (2011). The landscape technology of spate irrigation amid development changes: Assembling the links to resources, livelihoods, and agrobiodiversity-food in the Bolivian Andes. *Global Environmental Change – Human and Policy Dimensions* **21**, 917–934.

Zimmerer, K. S. (2011). The new geographies of energy: Introduction to the special issue. *Annals of the Association of American Geographers* **101**, 705-711.

Zimmerer, K. S. (2011). Spatial-geographic models of water scarcity and supply in irrigation engineering and management (Bolivia, 1952-2009). In: *Knowing Nature: Conversations at the intersection of political ecology and science studies*, eds. Goldman, M., Nadasdy, P., Turner, M. (Chicago: University of Chicago Press), pp. 167-185.

Zimmerer, K. S. (2011). Mapping mountains and indigenous landscapes in the early modern world: Early geovisualizations of Pedro de Cieza de León and Alexander von Humboldt. In: *Mapping Latin America*, eds. Offen, K., Dym, J. (Chicago: University of Chicago Press), pp. 125-130.

Zimmerer, K. S. (2011). Vertical environments: Science, nature, and cultural-environment diversity in modern development. In: *Mapping Latin America*, eds. Offen, K. S., Dym, J. (Chicago: University of Chicago), pp. 263-268.

Zimmerer, K. S. (2010). Biological diversity in agriculture and global change. *Annual Review of Environment and Resources* **35**, 137-166.

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C) RESEARCH PUBLICATIONS IN-PRESS (2018)

Zimmerer, K. S., de Haan, S., Lupp, J.R. (2018). Integrating agrobiodiversity knowledge for a sustainable future. In *Agrobiodiversity: Integrating Knowledge for a Sustainable*

Future, Eds. Zimmerer, K. S., and S. de Haan. Cambridge: Massachusetts Institute of Technology Press (15 manuscript pages).

Zimmerer, K. S., Carney, J. C. (2018). How do demographic change and spatial integration interact with agrobiodiversity? *Agrobiodiversity: Integrating Knowledge for a Sustainable Future*. Eds. Zimmerer, K. S., and S. de Haan. Cambridge: Massachusetts Institute of Technology (38 manuscript pages).

Zimmerer, K. S. (2018). Cultural plant geography and its evolution to the present: The works and influence of William M. Denevan. In *The Works of William M. Denevan: A Denevan Reader*, Eds. WinklerPrins, A., and K. Mathewson (notified of acceptance January 22, 2017; 29 manuscript pages).

D) SELECT RESEARCH PUBLICATIONS UNDER CURRENT REVIEW (2018)

Zimmerer, K. S., Jiménez Olivencia, Y., López Estébanez, N. Allende Álvarez, F., Mata Olmo, F., Yacamán Ochoa, C., Ruiz Pulpón, A., Jerez García, O., Porcel Rodríguez, L., and M. D. Ebersole. (2018). Agri-food landscapes in Spain: Spatial interactions and potential benefits to sustainability. (submitted July 14, 2018)

Zimmerer, K. S., Jones, A. D., de Haan, S., Creed-Kanashiro, H., Carrasco, M., Mesa, K., Tello, M., G. Cruz García, Plasencia Amayo, F., and R. Tubbeh. (2018). Biodiversity in agriculture and food systems (agrobiodiversity): Global change and stewardship in the Anthropocene. (submitted May 28, 2018)

Zimmerer, K. S., and K. McSweeney (2018). Environmental geography: New directions and prospects. (submitted April 30, 2018)

Clay, N. J. (2018). Africa's Green Revolution and climate change: Smallholder food producers' vulnerability to precipitation extremes amid Rwanda's Crop Intensification Program. (submitted July 26, 2018)

Hedberg, R., Zimmerer, K.S. (2018). What's the market got to do with it? Social-ecological embeddedness and environmental practices in a local food system initiative.

Tubbeh, R., Zimmerer, K.S. (2018). Unraveling the ethnoterritorial fix in the Peruvian Amazon: Indigenous livelihoods and resource management after land titling (1980s-2016).

Baumann, M.D., Zimmerer, K.S. (2018). Farmer seed projects and environmental landscape knowledge in Central America.

Aide, M., Grau, R., Cuesta, F., Young, K. R., Zimmerer, K. S., Barros, Marconi Campos, C., Rueda, X., Sánchez Andrade, A., Zarba, L. (2018) Woody vegetation encroachment in the Andes: The impacts of climate and land use change.

RESEARCH PRESENTATIONS

A) HONORARY, PLENARY, AND KEYNOTE ADDRESSES

"Biodiversity in Food Systems Amid Social-Environmental Transformations in Latin America." Keynote Address, Agricultural Transformation in Latin America's Changing Climate. Latin American and Iberian Institute. University of New Mexico. 14-16 November 2018.

"Conserving Agrobiodiversity amid the Dynamics of Environmental and Socioeconomic Changes." Keynote Address, 10th World Potato Congress and the XXVIII Congreso de la Asociación Latinoamericana de la Papa – ALAP, Cusco, Peru. May 30, 2018.

"Strengthening the Sustainability of Agricultural Biodiversity." University Lecture, Iowa State University, Ames, Iowa. April 19, 2017.

"Introduction and Overview: Agrobiodiversity in the 21st Century and an Integrative Scientific Framework for Transformative Sustainability." Ernst Strungmann Forum, Frankfurt Institute for Advanced Studies, Germany. October 3, 2016.

"Cambio climático y agrobiodiversidad relacionados con la seguridad y soberanía alimentaria" (Climate Change and Agrobiodiversity Related to Food Security and Sovereignty), Keynote Address, Foro Internacional de Glaciares y Ecosistemas de Montaña, Instituto Nacional de Investigación en Glaciares y Ecosistemas de Montaña (INAIGEM), Huaraz, Peru. August 12, 2016.

"Rethinking the Role of Food in Cultural Landscapes: The FINCA Conceptual Model." Keynote Address, Workshop on Identifying models for fostering biocultural diversity in landscapes through alternative food networks, United Nations University, Tokyo. March 10, 2016.

"Rethinking the Anthropocene: Ideas of Sustainability in Networks Emerging across Tropical Mountains and Global Urban Centers." Keynote Address, 2015 Altman Symposium on Interrogating the Anthropocene, Miami University, Oxford, Ohio. April 9, 2015.

"Agrobiodiversity as Coupled Systems: Interactions of Cultural and Natural Diversity amid Global Environmental and socioeconomic change." Cornell University Plant Breeding Symposium on 'Domestication: The crossroads of cultural and natural diversity', Department of Plant Science, Cornell University, Ithaca, New York. March 20, 2015.

"Thinking through Resilience for Development: Sustainability Issues in Land Use and Food Systems." Keynote Address, Cornell Workshop on Resilience and Development, Department of Development Sociology, Cornell University. October 24, 2014.

"Interstitial Spaces in the Cultural Value and Functions of Humanized Landscapes: Examples of Food Biodiversity and Global Change." Keynote Address to the Sustainable Futures for Europe's Heritage in Cultural Landscapes project (HERCULES), University of Amsterdam. September 24, 2014.

Plenary Lecture; "Surprise! Novel Interactions in Global Change and the Growing Role of New Human-Environment Ideas," Cultural and Political Ecology Specialty Group (CAPE), Annual Meeting of the Association of American Geographers, Tampa, Florida, April 11, 2014.

Keynote Lecture; "The Role of Surprise in Design and Methodologies for Research in Social-Ecological Synthesis," Invited, National Socio-Environmental Synthesis Center (SESYNC) Research Workshop, Annapolis, Maryland, January 15, 2014.

"Tropical Mountain Landscapes and Distant Cities: How Diverse Global Networks Give Rise to the Geographic Principles of Ecology and Sustainability," Public Address

Receiving the Alexander and Ilse Melamid Medal, American Geographical Society (AGS), New York City, December 6, 2013.

"Rethinking Geographic Approaches and Responding to Global Environmental Changes: Three Case studies," Ellen Churchill Semple Honorary Lecture, Department of Geography, University of Kentucky, April 24, 2011.

"Environmental Management Trends and Political Regimes in Latin America since 1985." Plenary LASA-organized presentation on "Contemporary Debates on Ecology, Culture, and Society in Latin America, organizers Marianne Schmink and José R. Jouve-Martín. International Congress of the Latin American Studies Association (LASA), Río de Janeiro, Brazil, June 11, 2009.

"Human-Environment and/or Nature-Society? Geographic Trends and Trajectories," Ralph Brown Day Honorary Lecture, Department of Geography, University of Minnesota, April 24, 2009.

"Biocomplexity and Geographic Approaches to Agricultural Intensification and Human-Environment Interaction." Series of seminar commentaries as Invited Outside Discussant to the Seminar of the Hawaiian Biocomplexity Project, Team Leaders Patrick V. Kirch (U. C. Berkeley) and Peter Vitousek (Stanford University), The School for American Research, Santa Fe, New Mexico, October 28-November 3, 2006.

"Globalization and the Ecology of Environmental Conservation in Human-Dominated Landscapes." Keynote Address, Symposium on Conserving Birds in Human-Dominated Landscapes: Weaving a Common Future. Center for Biodiversity and Conservation (CBC), The American Museum of Natural History, New York City, New York, April 27-28, 2006.

"Geographies of Globalizing Conservation and Agriculture." Honorary Lecture and Seminar as the Annual Taafe Lecture in Geography, Department of Geography, Ohio State University, September 28, 2004.

"Ethnobiology and the Environment: Recent Contributions from Collaborative Plant Breeding." Plenary Address, Sixth International Congress of Ethnobiology and Distinguished Lecture, Center for Latin American and Caribbean Studies (CLACS), University of Georgia, October 24, 2000.

"Local-Global Trends and New Landscape Ecologies: Changing Prospects of International Conservation." Keynote Address. Conference on the World Environment. Centers of Latin American, European and Russian, and African Studies, University of Kansas, Lawrence, February 19, 1999.

B) INVITED LECTURES, COLLOQUIA, AND SEMINARS

"Relevancia de los flujos entre distintos sistemas o paisajes agroalimentarios." Institute of Regional Development and the Science and Culture Unit, University of Granada, Granada, Spain, 14 June 2018.

"Navigating new geographies of agrobiodiversity: Potential sustainability and social use or dystopia in agriculture and food systems amid global changes." Department of Geography, McGill University, Montreal, 23 April 2018.

"New spaces of dystopia and sustainability: Transforming the geographic dynamics of biodiversity use and social access in food systems amid global change." School of Geography and Development, University of Arizona, 2 February 2018.

"Recent directions and trends in food studies." Research Seminar, Center for Regional Food Studies Visiting Scholar, University of Arizona, 1 February 2018.

"Biodiversity in agri-food systems: Apocalypse, alternatives, and what should the environmental sciences do?" School of Forestry and Environmental Studies (FES), Yale University, 13 November 2017.

"Desafíos y Estatregias Para la Sosteniblidad de los Sistemas Agro-Alimentarios y Paisajes de Producción y de Consumo de España Frente los Cambios Climáticos y Tasas de Urbanización Mas Fuerte del Mundo." Departamento de Geografía, Universidad Autónoma de Madrid, Madrid, Spain. 25 May 2017.

"Target, measure and act: Agrobiodiversity transitions at different scales and implications for integrated conservation." European Association for Research on Planting Breeding (EUCARPIA) Congress, Genetic Resources, Montpelier, France. 9 May 2017 (with Stef de Haan and Severin Polreich).

"New spaces of dystopia or sustainability? Geographic dynamics of biodiversity in land use and food systems", Department of Geography, Rutgers University (February 17, 2017)

"Cultural landscapes and landscape justice", Department of Landscape Science and the HERCULES Cultural Landscape Project, University of Hohenheim, Hohenheim, Germany, September 30, 2016.

"Integrating environmental and ecological analysis with political ecology and studies of society, science, and technology", Seminar Presentation, IRI THESys (Integrative Research Institute on Transformations of Human-Environment Systems), Humboldt University, Berlin, Germany, September 27, 2016.

"Perspectivas geográficas y interdisciplinarias sobre la agrobiodiversidad frente a cambios rurales-urbanos y climáticos", Universidad Nacional Hermilio Valdizán, Huánuco, Peru. July 25 2016.

"Land use and spatial planning, biodiversity of food systems and sustainability: International comparisons of 'Territorial Ordering' (*Ordenamiento Territorial*, OT)", The Rockefeller Foundation Bellagio Center, Bellagio, Italy. July 4, 2016.

"Spatial and environmental planning in the Anthropocene: Territorial approaches amid new resource extraction, state power and social conflicts, and scientific knowledge systems", David Rockefeller Center for Latin American Studies and Graduate School of Design, Harvard University. April 11, 2016.

"The social-ecological reworking of modern environment-food systems amid global changes", School of Forestry and Environmental Studies, Yale University, April 6, 2016.

"Culture-environment interactions, food landscapes, and spatial models in the Andes (Peru, Bolivia)", Andean Art and Archaeology Working Group, Harvard University, February 26, 2016.

"The informal seed sector: A behind-the-seeds look", United States Agency for International Development (US AID), Council on Food Security, Washington, D.C., November 12, 2015.

"New geographic and human-environment dynamics of biodiversity in land use and food systems", Colloquium Presentation, Institute of Geographic Sciences, Freie Universität Berlin, Germany, October 20, 2015.

"Agrobiodiversity and global change: Integrating across scales and conceptual frameworks", Colloquium Presentation, IRI THESys (Integrative Research Institute on Transformations of Human-Environment Systems), Humboldt University, Berlin, Germany, October 16, 2015.

"Dinámicas territoriales y interacciones humanas con el medio ambiente en Áreas Protegidas". Universidad Nacional de San Augustín (UNSA), Arequipa, Peru, May 23. 2015.

"Cambio climático y manejo del agua y paisajes en la zona agraria de la montaña." Universidad Nacional de San Augustín (UNSA), Arequipa, Peru, May 22, 2015.

"Medio ambiente: Nuevas perspectivas interdisciplinarias". Universidad Nacional de San Augustín (UNSA), Arequipa, Peru, May 21, 2015.

"Medio ambiente: Nuevas perspectivas geográficas y interdisciplinarias con ejemplos de la agrobiodiversidad y cambios globales (cambio climático, urbanización)". Pontificia Universidad Católica del Perú (PUCP), Lima, Peru, May 19, 2015.

Symposium Organizer, Convener, and Presenter, "Sustainable intensification: New scientific approaches," Annual Meeting of the American Association for the Advancement of Science (AAAS), San Jose, California, February 12-16, 2015.

"Rethinking the geographic dynamics and new dimensions of food biodiversity: Trends, transitions, and territories," Colloquium of the Department of Geography and the Environment, University of Texas at Austin, October 3, 2014.

"Food biodiversity in the cultural landscapes of smallholders: Global trends and regional trajectories in Latin America, Europe, and the U.S.A.," Institut for Geovidenskab og Naturforvaltning (IGN), Københavns Universitet/Department of Geosciences and Natural Resource Management, University of Copenhagen, September 23, 2014.

Symposium Organizer and Introducer, "Agrobiodiversity and global change: New linkages to sustainability," 2014 Annual Meeting of the American Association for the Advancement of Science (AAAS), Chicago, February 15, 2014.

"Agrobiodiversity and Environmental Governance: The Social-Ecological Futures of Food and Land Use," Colloquium of the Ostrom Workshop, Indiana University, October 28, 2013.

"Indigenous knowledge and human-environmental change: High-agrobiodiversity food plant complexes amid intensifying global trends and sustainability prospects," Interinstitutional Consortium on Indigenous Knowledge/ICIK, Pennsylvania State University, March 21, 2012.

"The present and future of e-education in Meteorology, Geosciences and Geography" (with Professors William Brune and Lee Kump), Earth Talks Seminar, Pennsylvania State University, March 12, 2012.

"Coevolution: Culture-agriculture interactions and implications with respect to potential perennial polyculture-based agrarian transitions," The Land Institute, Salina, Kansas, March 17, 2011.

"Agrobiodiversity and landscape ecology of the Andes," research group, Dr. Prof. Gerhard Gerold, Institute of Geography - Department of Landscape Ecology, University of Göttingen, December 7, 2010.

"Peru and Penn State: Research and graduate-education opportunities in geography and the resource and land-use sciences," Department of Geography, Pontificia Universidad Católica del Perú, Lima, Peru, November 11, 2010.

"Sustainable food landscapes and the geography of global agrobiodiversity," Department of Food Science, Pennsylvania State University, October 28, 2010.

"Conservation conversation: New directions in environmental management" (with Brian King and Erica Smithwick), coffee hour colloquium series, Department of Geography, Pennsylvania State University, September 10, 2010.

"Biodiversity and social-ecological resilience of irrigated agriculture in 'ethnodevelopment' policies," Agriculture and Land Use Lecture, Applied Biodiversity Science and NSF-IGERT Graduate Training Seminar Series, Texas A&M University, March 10, 2010.

"Adaptation and use of food plant biodiversity at multiple scales: Finding keys to conservation and sustainability," Colloquium Series, Department of Anthropology, Pennsylvania State University, February 19, 2010.

"Local dynamics of global land use: Change in high-agrobiodiversity and organic landscapes," coffee hour colloquium series, Department of Geography, Pennsylvania State University, December 11, 2009.

"Spatial interactions of land users and land use involving agriculture and the environment," M. E. John Seminar Series, Department of Agricultural Economics and Rural Sociology, Pennsylvania State University, December 5, 2008.

"Agrobiodiversity and water resources: Resilience and limits in political-environmental change," Department of Geography Colloquium Series, Rutgers University, October 24, 2008.

"Agrobiodiversity and water management in agricultural landscape evolution (Andean valleys, Bolivia, 1986-2008)," Harlan II, International Symposium, Biodiversity: Domestication, Evolution, & Sustainability, University of California, Davis, September 16, 2008.

"Climate change and agriculture in conservation and development," Advanced Graduate and Faculty Seminar in Conservation and Development, School of Forestry and Environmental Studies, Yale University, March 27, 2008.

"Common ground? Four-field geography and the restructuring academy," coffee hour colloquium series, Department of Geography, Pennsylvania State University, January 18, 2008.

"Spatial externalities in agriculture: Edge effect-type economic, social, and environmental interactions" (with B. Barham and D. Lewis), Seminar in Development, Department of Agricultural and Applied Economics, UW—Madison, November 29, 2007.

"Environmental conservation, climate change, and compromise: From landscapes to waterscapes and foodscapes" and "Biodiversity and climate change: How do top-down and bottom-up approaches meet," courses on Environmental Studies and

Globalization, School of Forestry and Environmental Studies, Yale University, November 12-13, 2007.

"Trade-offs of environmental conservation involving agriculture, development, and globalization," Workshop on Conservation and the Politics of Knowledge, Center for Integrative Conservation Research, University of Georgia, November 7, 2007.

"Biodiversity in agriculture and management of water resources: Exploring the connections in development and environmental change," Human-Environment Research Discussion (HERD), Department of Geography, University of Wisconsin--Madison, March 27, 2007.

"Complexity in historical ecology," invited panelist in Conversations in Geography Roundtable, Department of Geography, University of Wisconsin--Madison, March 9, 2007.

"Social-ecological hybridity and global change in the dynamics of Andean potato biodiversity," Technology and Agrarian Development Program (TAO), Wageningen University, Netherlands, October 12, 2006.

"Envisioning the future of geography: Borderlands within the discipline and in the context of interdisciplinarity," Department of Geography and College of Earth and Mineral Sciences, Penn State University, January 21, 2006.

"Environmental change, conservation, and agriculture under neoliberalism in Latin America," address to conference entitled "Beyond Neoliberalism? Experiences, Responses, and New Directions in Latin America and the Caribbean," Program on Latin America and the Caribbean (PLACA), Maxwell School, Syracuse University, April 15, 2005.

"Landscapes, local spatial dynamics, and human-environmental change in Andean peasant communities of Bolivia and southern Peru," Department of Anthropology, Yale University, March 24, 2005.

"From natural history to environmental science: Mapping landscape and nature in the Andes," Colloquium of the Agrarian Studies Program, Yale University, February 4, 2005.

"Human-ecological dynamics of agrobiodiversity and conservation," School of Forestry and Environmental Studies, Yale University, February 3, 2005.

"Agricultural change dynamics and cultural use of seed size variation in Peru," seminar in Culture and Ecology, Columbia University, November 1, 2004.

"Conservation trends, agrobiodiversity, and farmer organizations in Latin America," keynote address to the Conference on Sustainable Agriculture in the Americas, School of Forestry and Council on Latin American Studies, Yale University, April 19, 2004.

"Globalization and new dimensions of conservation: Exploring the opportunities and dilemmas," seminar of SAGE/Sustainability and the Global Environment, University of Wisconsin—Madison, April 7, 2004.

"Derechos y conceptos sobre territorios indígenas entre los Andes y la Amazonia." Instituto de Montañas/The Mountain Institute, Lima, Peru, August 5, 2003.

"Agrobiodiversity, culturally appropriate development, and the prospects amid growth of meso-scale irrigation and environmental and water resource policies," CONDESAN and CIP, Lima, Peru, October 25, 2002.

"Agrobiodiversity policies and governance issues," Working Group on Agriculture and Environment, FAO and UNDEP, New York, August 31, 2002.

"National and international environmental history: Globalization and new geographies of conservation," Faculty Environmental Breakfast Seminar (William Cronon leader), University of Wisconsin—Madison, April 16, 2002.

"The ecology of potato biodiversity: Environmental factors and indigenous landscape management in community-based models and other new developments in Peru and Bolivia," symposium of the Madison Ecology Group (MEG), University of Wisconsin—Madison, September 21, 2001.

"Geografía y su papel en investigaciones sobre la relación entre medio ambiente y desarrollo," (Geography and Its Role in Research on Environment-Development Relations), video-conference presentation, National Congress on Geography, Lima, Peru, November 29, 2000.

"People-environment geography and the outline of a theory of critical planning territories for conservation and development," Department of Geography, Syracuse University, April 28, 2000.

"Community landscapes, food, and the geographical state of nature: Case studies and reflections in greater South America," Department of Geography, University of Wisconsin—Madison, April 14, 2000.

"Tropical biodiversity and livelihoods: The case for sustainable development and the future of agriculture," The 'Plants, People, and the Planet' Lecture Series, Olbrich Botanical Gardens, Madison, Wisconsin, February 3, 2000.

"The geographical scaling of water resources under neo-liberal reforms and post-colonial development in Latin America," Department of Geography, University of Illinois, Champaign-Urbana, November 12, 1999.

"The human ecology and politics of re-scaling irrigation in South America: Colonial, modern, and post-colonial transitions," Colloquium, Department of Anthropology, Stanford University, October 18, 1999.

"The future of geography at the University of California, Berkeley," Panel Discussion, Department of Geography, University of California, Berkeley, October 17, 1999.

"Political ecologies and development in Latin America: Legacies of the Left, authoritarianism, and populism in irrigation projects, Bolivia and Mexico, 1950-1995," invited workshop fellow, University of California, Berkeley, Environmental Politics Workshop, October 15, 1999.

"The reworking of nature's geography: Conservation, ideas of scale, and political ecology hybrids," Colloquium, Department of Geography, University of California, Berkeley, October 13, 1999.

"Agriculture, ecology, and irrigation," Department of Anthropology, University of Wisconsin—Madison, October 1, 1999.

"Colonialism-to-globalization: Geographical ideas of landscape and conservation with special reference to western South America," Faculty Environmental Breakfast Seminar (William Cronon leader), University of Wisconsin—Madison, April 13, 1999.

"Research trends in the area of environment-development relations and Latin America," Symposium on Latin America and the Environment, Latin American and

Iberian Studies Program and Institute for Environmental Studies, University of Wisconsin—Madison, March 18, 1999.

"Changing representations of nature and natives during European colonialism (1532-1830)," Faculty Fellows Seminar, Institute for Research in the Humanities (HRI), University of Wisconsin—Madison, November 23, 1998.

"Narratives of 'second nature': Environmental change and development in Latin America," Department of Geography, University of Minnesota, October 24, 1997.

"Conservation and development in Latin America: The example of agricultural biodiversity in Peru" (in Spanish), El Instituto Manantlán de Ecología y Conservación de la Biodiversidad (IMECBIO), Universidad Nacional de Guadalajara, Mexico, April 23, 1997.

"Environmental research, policy, and ethics in developing countries," Faculty Environmental Breakfast Seminar (William Cronon leader), University of Wisconsin—Madison, April 15, 1997.

Invited Commentator on the Symposium "Agricultural transformation and agrarian transition in the Americas: Technological change and biotechnology in the 21st century," The Land Tenure Center and the Department of Agricultural and Applied Economics, University of Wisconsin-Madison, April 11, 1997.

"Environmental and social dimensions of agricultural change in Latin America and the United States," The Land Institute, Salina, Kansas, March 25, 1997.

"The geo-ecology of agriculture in developing countries: Inner-actions of human and biophysical geography," Department of Geography, Pennsylvania State University, January 24, 1997.

"Research problems, theory, and methodology in environmental geography," Department of Geography and College of Geosciences, Texas A&M University, October 14, 1996.

"Environmental degradation and conservation in developing countries." (6 Lectures), University of Iowa, Iowa City, November 13-16, 1995.

"The environmental geography and history of agricultural biodiversity," Faculty Environmental Breakfast Seminar (William Cronon leader), University of Wisconsin—Madison, November 10, 1995.

"Biodiversity's changing role in Third World farming," Department of Geography and Rockefeller Center, Dartmouth College, October 8, 1995.

"Changing fortunes: Biodiversity and peasant livelihood in the Peruvian Andes," Department of Geography and Institute of Latin American Studies, University of Illinois, April 20, 1995.

"Economic restructuring and environmental policies in Andean South America," Conference on the Environment and the New Global Economic Order, Institute of Latin American Studies, University of Texas-Austin, April 7, 1995.

"Peasant farming and the 'agrarian question' in Bolivia: Subsidies from nature and culture," Land Tenure Center, University of Wisconsin-Madison, March 30, 1995.

"Implications of non-equilibrium ecology," Department of Geography, Noontime Faculty-Graduate Discussion, University of Wisconsin-Madison, February 20, 1995.

"Integrating 'new ecology' and political ecology," Workshop on Political Ecology, Michigan State University, April 16, 1994.

"The environmental geography of soil erosion and conservation in highland Bolivia," Department of Geography, University of Wisconsin—Madison, March 17, 1994.
"Neither noble nor ignoble: 'Ecological savages' and the concept of resource ethics among non-Westerners," Working Group on Sustainability, University of Texas and Texas A&M, February 19, 1994.
"The challenge of integration in environmental geography: Doing research on soil erosion in Bolivia," Department of Geography, Texas A&M, February 17, 1994.
"Perceptions of soil degradation in Cochabamba, Bolivia: Implications for conservation and development," Latin American and Iberian Studies Program, University of Wisconsin, Madison, 1993.
"Soil erosion in the Bolivia highlands, 1950-1990: The geography of environmental deterioration and conservation," Department of Geography, University of California, Los Angeles, 1993.
"Twentieth century history of soil erosion in highland Bolivia," Department of Geography, Northern Illinois University, De Kalb, Illinois, 1992.
"Andean ethnicity in the history and conservation of agricultural biodiversity," Quichua Intensive Program, University of Wisconsin, Madison, 1992.
"Regional political ecology and the development of wetland farming in highland Peru," Department of Geography, University of California, Berkeley, 1990.
"The geography of agricultural biodiversity and its conservation in the Peruvian sierra," Department of Geography, University of Wisconsin, Madison, 1990.
"Environmental degradation and conservation in the Andean highlands," Institute of Latin American Studies University of North Carolina at Chapel Hill, 1989.
"The deterioration of Latin American environments: Causes, consequences, and conservation," Student Environmental Action Coalition Symposium, University of North Carolina at Chapel Hill, 1989.
"The loss of biological resources in highland Peru," Ecology Curriculum, University of North Carolina at Chapel Hill, 1989.
"The ecology and management of biological resources in agricultural and rural development: Maize and potatoes in the Peruvian Andes," Department of Geography, University of North Carolina at Chapel Hill, 1988.

C) PRESENTATIONS AT CONFERENCES (2009-2018)

2019 Invited Research Presentation, "Emergent spillover effects in urban-rural telecoupling and impacts on food agrobiodiversity," Global Land Programme Meeting, Bern Switzerland, April 24-26 2019.
2018 Invited Panelist, "Land + resource geographies," 8th Nature-Society Workshop, Penn State University, 21 September 2018.
2018 Invited Discussant Presentation, "Variability that lives: Ecological, political, and social adaptations to different environmental zones of South America," Organizers Sadie Weber and Solsire Cusicanqui Marsano; 8 Papers. Society of American Archaeology (SAA), Washington, D.C. (April 14).
2017 "Agrobiodiversity and sustainability in the 21st Century: Necessary as the analytic nexus or the next anthem of future agroecology and food systems?" with

Stef de Haan, Research Presentation in Session on Agrobiodiversity and Traditional Knowledge: Conservation Strategies and Sustainable Development. Meeting of the Society for Economic Botany (SEB), Bragança, Portugal (June 6).

2017 "Ordenamiento territorial (Territorial Ordering) and land use planning: Multi-scale strategies for environmental governance and management." Research Presentation in Session on State Institutions and Governance Responses to Extractive Industries. XXXV International Congress of the Latin American Studies Association (LASA), Lima, Peru (April 30).

2017 "Global, multi-scale telecoupling of smallholder land use and livelihoods: Social-ecological analyses of decision-making, vulnerability, and resilience." Research Presentation in Session on Telecoupling, People and Landscapes among Distant Places around the World. U. S. Regional Association for the International Association for Landscape Ecology (US-IALE), Baltimore, April 10.

2017 "Resilience, Food, and Agriculture: Social-Ecological Frameworks for Sustainability and Social Justice III - Governance & Adaptive Capacity." Discussant, Annual Meeting of the Association of American Geographers (AAG), Boston, April 8.

2017 "Sustainable Territories-I? National Spatial Planning and Zonation for Environmental Governance in Latin America and China." Panelist & Organizer (with Jia-Ching Chen, UC Santa Barbara), Annual Meeting of the Association of American Geographers (AAG), Boston, April 7.

2017 "Sustainable Territories-II? Local and Transnational Territorializations for Environmental Governance." Discussant, Chair, & Organizer (with Jia-Ching Chen, UC Santa Barbara). Annual Meeting of the Association of American Geographers (AAG), Boston, April 7.

2017 "Theorizing Land Science." Discussant, Annual Meeting of the Association of American Geographers (AAG), Boston, April 6.

2017 "Institutional Resilience in Social-Ecological and Political Systems: Designing Ethnographic, Embedded, and Environmental Approaches at Multiple Levels." Discussant, Annual Meeting of the Association of American Geographers (AAG), Boston, April 6.

2017 "Linking biodiversity in agri-food systems to major pathways of livelihood change, justice, and resource ecology in transformations amid global change." Research Presentation in Paper Session on Changing Land Use, Changing Livelihoods: Smallholders Today. Annual Meeting of the Association of American Geographers (AAG), Boston, April 5.

2016 "Global, multi-scale telecoupling of smallholder land use and livelihoods: Social-ecological analyses of trade-offs, risk, and vulnerability." Research Presentation, Global Land Project 3rd Open Science Meeting, Beijing, China (October 25).

2016 "Remoteness and the evolution of agrobiodiversity in the Andes: Tracing the cultural spaces of human-environment knowledge." Northeast Conference on Andean and Amazonian Archaeology and Ethnohistory (NCAAEE) Harvard University, Cambridge, Mass. (October 16).

2016 "Ordenamiento Territorial in Latin America: Transnational ideas and national developments of spatial and environmental planning." XXXIV International Congress of the Latin American Studies Association (LASA), New York, New York. (May 29).

2015 "Rethinking the intensification of global land use and food systems through geographic concepts, analysis, and insights," Research Paper Presentation, Annual Meeting of the Association of American Geographers, Chicago (April 22).

2015 "Agrobiodiversity and Food Security/Sovereignty: Roundtable on concepts, methods, and measurement," Panelist, Annual Meeting of the Association of American Geographers, Chicago (April 21).

2015 "Agrobiodiversity and Food Security/Sovereignty: Roundtable on concepts, methods, and measurement," Discussant, Annual Meeting of the Association of American Geographers, Chicago (April 21).

2015 "New approaches to coupling human and water dynamics," Discussant, Annual Meeting of the Association of American Geographers, Chicago (April 24).

2015 Political Ecology and Social-Ecological Interactions of Food Production and Systems: Social and Ecological Sustainability," Sessions I-VI, Organizer, Annual Meeting of the Association of American Geographers, Chicago (April 21-22).

2015 "Can citizen science accelerate climate adaptation by poor farming households?" (with J. van Etten et al.), Climate-Smart Agriculture Global Science Conference, Montpellier, France (March 16).

2015 "Pathways of intensification and potential compatibility of agrobiodiversity: Smallholder land systems and livelihoods." 2015 Annual Meeting of the American Association for the Advancement of Science (AAAS), San Jose, CA (February 13).

2014 "Análisis del Ordenamiento Territorial: Paradigmo y modelo de planificación y/o diseño de solucionar problemas socio-medio ambientales," Research Paper Presentation, International Congress on Ordenamiento Territorial, Sociedad Geográfica de Lima, Cuzco, Peru (August 15).

2014 "Policies, politics, and planning approaches in resource extraction: Ordenamiento Territorial in Peru," Congress of the Latin American Studies Association (LASA), Chicago (May 22).

2014 "Searching for alternatives to Bolivia's extractive economy: Remembering and celebrating Ben Kohl," Research Paper Presentation, Annual Meeting of the Association of American Geographers, Tampa, Florida (April 9).

2014 "The historical political ecology of knowledge and the emergence of new landscape models in tropical mountains: The case of Andean South America," Research Paper Presentation, Annual Meeting of the Association of American Geographers, Tampa, Florida (April 9).

2014 "Spatial patterning and interactions of land use in complex, high--agrobiodiversity smallholder landscapes." 2014 Global Land Project Meeting, Humboldt University, Berlin, Germany (March 21).

2014 "Global agrobiodiversity hotspots and challenges for sustainable development." 2014 Annual Meeting of the American Association for the Advancement of Science (AAAS), Chicago (February 15).

2013 "Markets, cultures, ecology, seeds: Rethinking "public" and "private" in agrobiodiversity governance." Annual Meeting of the American Anthropological Association (AAA), Chicago (November 21).

2013 "New landscape knowledge in Andean Colonialism: The emergence of novel geographic frameworks through ethnohistorical interactions. Northeast Conference on Andean Ethnohistory (NCAE), Yale University, New Haven, (November 17).

2013 "Spatial-environmental knowledge and resource conflicts-coordination in Spanish Andean Colonialism," in session on Historical Resource Conflicts and Coordination: Political Ecologies of Past Landscapes-1 (Colonial Period), Congress of the Latin American Studies Association (LASA), Washington, D.C. (May 30).

2013 "Migration, urbanization, and water resources at the crossroads of agrobiodiversity change: Contradictions or compatibilities?," Research Paper Presentation, Annual Meeting of the Association of American Geographers, Los Angeles (April 11).

2013 "Geographies of Hope Symposium 5: Gaining ground? Geographies of viable, equitable agricultures (& the seeds thereof)," Panelist Presentation, Annual Meeting of the Association of American Geographers, Los Angeles (April 11).

2013 "Biodiversity conservation and compatibility with agricultural intensification-II: Advances of the social-ecological sciences for sustainability and food security," Research Paper Presentation, Annual Meeting of the Association of American Geographers, Los Angeles (April 10).

2013 "Biodiversity conservation and compatibility with agricultural intensification-I: Advances of the social-ecological sciences for sustainability and food security," Discussant, Annual Meeting of the Association of American Geographers, Los Angeles (April 10).

2013 "Political ecologies of resource extraction and indigeneity in the Americas," Research Paper Presentation, Annual Meeting of the Association of American Geographers, Los Angeles (April 9).

2013 "Who Speaks For the Climate," Panelist Presentation, Annual Meeting of the Association of American Geographers, Los Angeles (April 9).

2012 "Biofuels in Bolivia and Peru: Political economies and ecology of agriculture, energy, resources, and development in Western South America." In panel on Biofuels and Agricultural Governance in Latin America, Renata Andrade, Organizer, Congress of the Latin American Studies Association (LASA), San Francisco (May 26).

2012 "Political ecology and geography: Political Ecology: Keeping Connections in the Field," Panelist, noBoundaries Graduate Student Conference, Pennsylvania State University (March 31).

2012 "Perspectives on the Smithsonian Institution Indigenous GEO Initiative." Planning Workshop, Interinstitutional Consortium on Indigenous Knowledge/ICIK, Pennsylvania State University (March 16)

2012 "Biodiversity and food in the context of development and climate change-II," Panel Introducer and Organizer, Annual Meeting of the Association of American Geographers, New York City (February 27).

2012 "Conflicts, contrasts, and connections in the politics and policies of land/land use in the Andes and Amazon of Bolivia." Research Paper, Annual Meeting of the Association of American Geographers, New York City (February 26).

2012 "Socio-environmental conflicts II: the Andes," Panel Discussant, Annual Meeting of the Association of American Geographers, New York City (February 25).

2011 "Models and mapping of land use, landscapes, and cultural-environmental diversity in Peru: The legacy of Javier Pulgar Vidal." Research Paper, Northeast Conference on Andean Archaeology & Ethnohistory, Peabody Museum, Philips Andover Academy, Andover, Massachusetts (October 15).

2011 "*Kawsay* as an indigenous concept of food rights and development politics: Advancing the geographies of social environmental justice in the Andean countries." Presentation and Discussion, Geographies of Justice: An Interdisciplinary Symposium, Department of Geography, The Pennsylvania State University (October 1).

2011 "Ideologies and spaces of organic dairy: Implications for alternative food systems." Research Paper, Annual Meeting of the Association of American Geographers, Seattle (April 14).

2011 "The cultivation and conservation of biological diversity," Panel Discussant, Annual Meeting of the Association of American Geographers, Seattle (April 14).

2011 "Annals Editorial Board session"; "Meet the Editors of the Annals and the Professional Geographer" and "How to be an Editor for the Association of American Geographers", Panel Discussant in a group of three special sessions, Annual Meeting of the Association of American Geographers, Seattle (April 13 and April 15).

2010 "Mapping the Andes and Peru during the national period: Pulgar Vidal and land use planning and policy." Congress of the Latin American Studies Association (LASA), Toronto (October 9).

2010 "Water resources, agriculture, and food in local livelihoods: Resilience and limits in irrigation landscapes." Research Paper, Annual Meeting of the Association of American Geographers, Washington, D.C. (April 15).

2010 "Mapping Latin America," Panel Discussant, Annual Meeting of the Association of American Geographers, Washington, D.C. (April 16).

2010 Session Discussant, Latin America & Social Sustainability, noBoundaries Graduate Student Conference, Penn State University (21 March 2010).

2009 "Environmental management trends and political regimes in Latin America since 1985." Plenary LASA-organized presentation on "Contemporary Debates on Ecology, Culture, and Society in Latin America, organizers Marianne Schmink and José R. Jouve-Martín. International Congress of the Latin American Studies Association (LASA), Río de Janeiro, Brazil (June 11).

2009 "Trends in the policies and political ecology of agriculture and food related to environmental conservation and management trends in Latin America." Joint Annual Meeting of the Agriculture, Food and Human Values Society (AFHVS) and the Association for the Study of Food and Society (ASFS), Pennsylvania State University, State College, Pennsylvania (May 29).

2009 "Agrobiodiversity Research: Retrospective and Prospectus." Annual Meeting of the Association of American Geographers, Las Vegas (March 24).

2009 Invited Discussant, "The Geography of Science," Annual Meeting of the Association of American Geographers, Las Vegas (March 26).

RESEARCH WORKSHOPS AND ROUNDTABLES, EXPERTS MEETINGS, ORGANIZED FIELD TRIPS, AND RESEARCH SITE VISITS FOR TRAINING ONLY (PAST 5 YRS)

2018 Roundtable, "Paisajes agroalimentarias, biodiversidad, y sostenibilidad," Institute of Regional Development and the Science and Culture Unit, University of Granada, Granada, Spain (14 June 2018)

2018 Workshop, "Outlooks to Outcomes: Interdisciplinary Approaches to Land-Based Livelihoods and Land Use Change," Global Development Policy Center, Boston University (May 4)

2018 Field Research Workshop, "Systems of biodiversity, water, and food security amid climate change and rapid urbanization in Peru." Workshop at Field Sites, Faculty of Pennsylvania State University and PUCP, Lima and Piura, Peru (April 2-7)

2017 Organizer and Participant, Research Workshop on "Investigating and advancing sustainability of biodiversity, water, and food security amid climate change and rapid urbanization in Peru." Virtual Workshop, Faculty of Pennsylvania State University and PUCP, Lima, Peru (October 20, 27)

2017 Invited Participant, Research Workshop on "Land use/cover change in the tropical Andes during the 21st century; Patterns, drivers, future scenarios and research agenda," Mountain Research Initiative, Quito, Ecuador (September 26-30).

2017 Participant, Research Panels on "Agroecology and environmental futures" and "Critically visualizing N/S geographies," Workshop on Nature-Society Geography, Clark University, Worcester, Mass. (September 15-16).

2016 Co-Organized Field Organized Field Trip with Nathan J. Clay on "Climate change, land use, agrobiodiversity, seed systems," Rwanda. (December 7-15).

2016 Lead Co-Organizer and Participant, Research Workshop on "Agrobiodiversity in the 21st century: Foundations and Integration for Sustainability," Ernst Strungmann Forum, Institute for Advanced Studies, University of Frankfurt, Frankfurt, Germany. (October 2-7).

2016 Invited Participant, Organized Field Trip on "Identifying models for fostering biocultural diversity in landscapes through alternative food networks," Noto Peninsula, Japan. (March 11-13).

2016 Invited Participant, Research Workshop on "Identifying models for fostering biocultural diversity in landscapes through alternative food networks," United Nations University, Tokyo. (March 9-10).

2014 Invited Participant, Research Workshop on "Resilience and development," Atkinson Center for a Sustainable Future, Oxfam America, and Department of Development Sociology, Cornell University, Ithaca, NY. (October 24).

2014 Invited Participant, Research Workshop on "Sustainable futures for Europe's heritage in cultural landscapes," University of Amsterdam. (September 23-25).

2014 Invited Participant, Workshop on "Socio-environmental synthesis research proposal writing," National Socio-Environmental Synthesis Center (SESYNC) Research Workshop, Annapolis, Maryland (January 15-16).

2013 Invited Participant, Experts Meeting on "Rights to resilience," Oxfam America, Washington, D.C. (March 7-8).

2012 Invited Participant, Working group on "Telecoupling and distal connections: Theoretical perspectives and case studies of social-ecological resilience" in Research Workshop on "Rethinking global land use in an urban era," Ernst Strungmann Forum, Institute for Advanced Studies, University of Frankfurt, Frankfurt, Germany. (September 23-28).

UNIVERSITY TEACHING

A) COURSES AND SEMINARS (PAST 10 YEARS)

Current and Recent Teaching: Human Use of the Environment (Fall 2018); Research in Geography (Fall 2018); Future of Food (Spring 2018; SRTE for course = 6.0 out of 7.00; SRTE for instructor = 6.5 out of 7.0)

General Teaching at the Undergraduate Introductory Level: Future of Food (Geog 3) Geographic Perspective on Sustainability and Human-Environment Systems (Geog 30) (Penn State, 2010, 2012, 2017, 2018)

General Teaching at the Undergraduate Intermediate and Advanced Level Teaching: Human Use of the Environment (Penn State, 2008, 2009, 2012, 2014, 2016, 2017, 2018)

General Teaching at the Graduate Level: Seminar in Integrative Human-Environment Research: Social-Ecological Systems and Political Ecology (Penn State, 2009, 2012, 2014, 2017)

General Teaching at the Graduate Level: Research in Geography (Penn State, 2007-14; 2016, 2017)

B) INDIVIDUALIZED UNDERGRADUATE AND GRADUATE COURSE INSTRUCTION (PAST 1.5 YEARS)

Fall 2018: Graduate Thesis Research, 3 students (Geog 600); Ph.D Dissertation Part-Time, 1 student (Geog 611)

Summer 2018: Graduate Thesis Research, 4 students (Geog 600); Ph.D Dissertation Full-Time, 1 student (Geog 601)

Spring 2018: Undergraduate Research Honors, 1 student (Geog 494H); Graduate Independent Studies, 4 students (Geog 596); Graduate Thesis Research, 4 students (Geog 600); Ph.D Dissertation Full-Time, 3 students (Geog 601); Ph.D Dissertation Part-Time, 1 student (Geog 611)

Fall 2017: Undergraduate Research Honors, 1 student (Geog 494H); Graduate Independent Studies, 6 students (Geog 596); Graduate Thesis Research, 3 students (Geog 600); Ph.D Dissertation Full-Time, 5 students (Geog 601); Ph.D Dissertation Part-Time, 1 student (Geog 611)

Spring 2017: Undergraduate Research, 1 student (Geog 494); Undergraduate Teaching Internship, 1 student (Geog 495); Undergraduate Independent Studies, 1 student (Geog 496); Graduate Independent Studies, 4 students (Geog 596); Graduate Thesis Research, 2 students (Geog 600); Ph.D Dissertation Full-Time, 5 students (Geog 601)

C) GRADUATE STUDENT SUPERVISION AND COMMITTEES

(i) Supervision as Adviser of Student Theses

(a) Major Advisor of the Undergraduate Honors Thesis

Julia Higson (Pennsylvania State University, Schreyer Honor's College, Geography, 2017-18; Thesis, "The recent development of urban agriculture in Japan: Alternative food movements and urban planning"; Thesis completed May 2018)
David Knoppers (Pennsylvania State University, Schreyer Honor's College, Geography, 2012)
Rebecca Baker (Pennsylvania State University, Schreyer Honor's College, 2011)
Neela Nandyal (UW-Madison, Geography, 2002)

(b) Major Advisor/Supervisor of the M.A. and M.S.

Megan Baumann (M. S., Penn State, 2017) Geography of farmer landscape knowledge in North-Central Nicaragua
Ramzi Tubbeh (M. S., Penn State, 2017) From territorial claims to mediated access: Unraveling the ethnoterritorial fix in the Peruvian Amazon
Ashlee Adams (2013-2015; Penn State, Geography, degree awarded in 2015)
Sara Cavallo (2013-2015; Penn State, Geography, degree awarded in 2015)
Russell Hedberg (2011-2013, Penn State, Geography, degree awarded in 2013)
Anna Shamey (2009-2011; Penn State, Geography, degree awarded in 2011)
Kevin Hillmer-Pegram (Penn State Geography, degree awarded in 2011)
Brentley Moats (Penn State, Geography, degree awarded in 2009)
Martha Bell (UW-Madison, 2006)
Stephanie Larson (UW-Madison, 2003)
Diana Downes (UW-Madison, 2003)
Ryan Galt (UW-Madison, 2001)
Billie Ediger (Latin American Studies (LACIS), UW-Madison, 2001)
Ankur Tohan (UW-Madison, 2000)
Eric Carter (UW-Madison, 1999)
Jenifer Cesca (UW-Madison, 1998)
David Neidel (UW-Madison, 1997)
Fernando González (UW-Madison, 1995)
Tania Schoennagel (UW-Madison, 1994)
José Ariel Guarachi Montán (2009-, AGRUCO-UMSS, Cochabamba, Bolivia) (Co-Adviser)
Franz Oliver Casilla Loza (AGRUCO-UMSS, Cochabamba, Bolivia) (Co-Adviser)
Paula Gutiérrez Burga (2009-, AGRUCO-UMSS, Cochabamba, Bolivia) (Co-Adviser)

(c) Major Advisor/Supervisor of the Ph.D. (Current appointments or employment shown)

Megan Baumann (2015-), Irrigation Mega-Project and Resources: Socio-Environmental Analysis and Food Security in Colombia

Mary Louise Ryan (2016-), Intersectional Analysis of Seed Systems in the Context of Outmigration, Nepal
Gabriel Tamariz (2016-), Agrobiodiversity change in Drug War landscapes, Mexico
Ramzi Tubbeh (2015--), Environmentality and interbasin irrigation: Rescaling and contesting the construction of landscapes and citizens, Peru
Sara Cavallo (2013-), Geography, the political agronomy of plant disease and the agrobiodiversity of bananas, Uganda
Yooinn Hong (2012-), Home garden agrobiodiversity amid agriculture-forest landscape interactions, protected areas, and agrarian change in East Asia.
Emma Mullaney (2009-, planned completion 2018-19), Peasant persistence, maize diversity, and agricultural development in Mexico's Central Highlands (Visiting Assistant Professor of International Relations, Bucknell University).
Russell Hedberg (Ph.D, Penn State, 2018), Alternative food systems, soil phosphorus, and sustainability linked to the regional farmer's market network, New York City, USA (Assistant Professor, Department of Geography; Director, Sustainability Institute, Shippensburg State University, Pennsylvania)
Nathan Clay (Ph.D, Penn State, 2017) Adaptive livelihoods? Climate change, agrodiversity, and food security amid development transitions in Rwanda (Post-Doctoral Scientist, Oxford University, UK).
Martha G. Bell (Ph.D, Penn State, 2013) Technology change, food and water flows, and landscape transformation in colonial Peru. (Current Position, Assistant Professor, Center for Geographical Research and Analysis, Pontifical Catholic University of Peru/PUCP, Lima, Peru).
Fernando L. González (Ph.D, UW-Madison, 2009) Socio-environmental dynamics and history of the biological invasion of pasture grasses: The case of kikuyu grass in Southern Peru. (Lecturer, Center for Geographical Research and Analysis, Pontifical Catholic University of Peru/PUCP, Lima, Peru).
Ryan Galt (Ph.D, UW-Madison, 2006) Political Ecology and the Pesticide Paradox: Markets, Pesticide Use, and Human-Environment Relations in Costa Rican Agriculture. (Current Position, Professor, University of California, Davis)).
Eric D. Carter (Ph.D, UW-Madison, 2005) Social-Environmental Dynamics of Malaria Eradication and Land Use/Land Cover Change in Northwest Argentina, 1900-Present. (Current Position, Associate Professor and Holder of the Edens Professorship in Global Health, Geography Department, Macalester College).
Christopher John Rosin (Ph.D, UW-Madison, 2004) Social and Environmental History of the MERCOSUR Trade Pact (Paraguay, Brazil, Argentina) with Emphasis on Recent Impacts and Development of Yerba Mate. (Current Position, Senior Lecturer, Lincoln University, New Zealand).
Christian Brannstrom (Ph.D, UW-Madison, 1998) After the Forest: Environment, Labor, and Agro-Commodity Production in Southeastern Brazil. (Current Position, Professor, Texas A&M University).
Antoinette M.G.A. WinklerPrins (Ph.D, UW-Madison, 1999) "Between the Floods: Soils and Agriculture on the Lower Amazon Floodplain, Brazil." (Current Position, Program Director, National Science Foundation, Associate Professor, Michigan State University, 1999-2008).

(ii) Member, Thesis Committee

(a) Member of M.S. and M.A. Committee (Geography unless noted)

Penn State: Eden Kincaid (2017); Bruno Muncher (Energy and Mineral Engineering, 2014-2016); Carolyn Reyes Booth (Agricultural Economics and Rural Sociology, 2014-2016); Erica Hann (2013-2015); Eric Tablor (2013-2015); Vincent Ricciardi (2012-2014); Catherine Jampel (2011-2013); Ellie Andrews (2010-2012); Lauren Anderson (2009-2011); UW-Madison: Abby Hickcox (IES, Land Resources, 2007); Eugenia Podesta (Latin American, Iberian, and Caribbean Studies, 2006); Margaret Buck (IES, Environmental Monitoring, 2005); Carla Sabine Friedrich (IES, Land Resources, 2005); Neela Nandyal (2004); Michelle Schenk (2003); Jennifer Ewald (2003); Craig Ficenic (IES, Environmental Monitoring, 2003); Benjamin Sheehan (2002); Daniel Mensher (2002); Peter Moreno (IES, Conservation Biology, 2002); Benjamin Sheehan (IES-Water Resources, 2002); Mathew Early (Latin American Studies (LACIS), 2002); Alexis Zubrow (2001); Theodore Hoppenstadt (2001); Christopher MacGuire (Latin American Studies (LACIS), 2001); Brian Seasholes (2000); Karen Archabald (2000); Alex Persons (1999); Sharon Lee (1998); Ken Birnbaum, Institute for Environmental Studies (1995); Louis Carlo (1995); Jill Fisher, Latin American and Iberian Studies (1994); Mrill Ingram (1991); Mark Keating, Institute for Environmental Studies (1995); Joseph McCann (1993); Peter Newell (1995); Suzy Svatek (1994); Annmarie Terraciano (1994); Ellen Weber (1993); University of North Carolina at Chapel Hill: Mark Sidaway (1990)

(b) Member of Ph.D Thesis Committee

Mara Vivanco (Penn State, Agricultural Economics and Rural Sociology, 2016-)
Nari Senanayake (Penn State, Geography 2014-)
Abou Traore (Penn State, Agricultural Economics and Rural Sociology, 2015-)
Christian Man (Penn State, Agricultural Economics and Rural Sociology, 2015-)
Arie Sanders (Penn State, Agricultural Economics and Rural Sociology, 2015-)
Maureen Bierman (Ph.D, Penn State, Geography, 2008-)
Matthew Branch (Ph.D, Penn State, Geography, 2008-)
Kayla Yurco (Ph.D, Penn State, Geography, 2011-2017; Ph.D 2017)
Li-San Hung (Ph.D, Penn State, Geography, 2013-2016; Ph.D 2016)
Jamie Shinn (Ph.D, Penn State, Geography, 2010-2015; Ph.D 2015)
Rahma Adam (Ph.D, Penn State, Agricultural Economics and Rural Sociology, Ph.D 2014)
Kristal Jones (Ph.D, Penn State, Agricultural Economics and Rural Sociology, 2009-2013, Ph.D 2013)
J. Dara Bloom (Ph.D, Penn State, Agricultural Economics and Rural Sociology, 2009-2013, Ph.D 2013)
Margaret Mwangi (Ph.D, Penn State, Geography, 2004-2012; Ph.D 2012)
Jeremy Fisher (Ph.D, Penn State, Geography, 2008-2012, Ph.D 2012)
Peter Howe (Ph.D, Penn State, Geography, 2007-2012, Ph.D 2012)
Jamil Bey (Ph.D, Penn State, Geography, 2007-2011; Ph.D 2011)

Myriam Paredes (Rural Development Sociology and Agrarian Technologies, Wageningen University, Netherlands, 2007-2010; Ph.D 2011)
Margaret Buck Holland (Conservation Biology and Sustainable Development, Nelson Institute of Environmental Studies, University of Wisconsin—Madison, 2009)
Kevin Coffey (Conservation Biology, Columbia University, 2004-07; Ph.D 2007)
Jacob van Etten (Technology and Agrarian Development, Wageningen University, Netherlands, 2006)
Christopher Duvall (Geography, University of Wisconsin—Madison, 2006)
Mara Goldman (Geography, University of Wisconsin—Madison, 2006)
Arthur Scaritt (Sociology, University of Wisconsin—Madison, 2005)
Kristine Kuhlman (Institute of Environmental Studies, Land Resources/GIS and Monitoring, University of Wisconsin—Madison, 2005)
Morgan Robertson (Geography, University of Wisconsin—Madison, 2004)
Kelly Knudson (Anthropology, University of Wisconsin—Madison, 2003)
Steve Wernke (Anthropology, University of Wisconsin—Madison, 2003)
Joseph McCann (Geography, University of Wisconsin—Madison, 2003)
Jeremiah Kitunda (History, University of Wisconsin—Madison, 2003)
William G. Gartner (Geography, University of Wisconsin—Madison, 2002)
Eric Wood (Inst. Environmental Studies, Environmental Monitoring, University of Wisconsin—Madison, 2002)
Eduardo Zegarra (Agricultural and Resource Economics, University of Wisconsin—Madison, 2002)
Eduardo Kohn (Anthropology, University of Wisconsin—Madison, 2002)
Francis Hutchins (Anthropology, University of Wisconsin—Madison, 2002)
Francisia Seda (Development Studies, University of Wisconsin—Madison, 2001)
Susy S. Ziegler (Geography, University of Wisconsin—Madison, 1999)
Drew Ross (Geography, University of Wisconsin—Madison, 1999)
Trevor Burwell (Geography, University of Wisconsin—Madison, 1998)
Sarah Brooks (Geography, University of Wisconsin—Madison, 1998)
Heidi Glaesel (Geography, University of Wisconsin—Madison, 1997)
Duane Griffin (Geography, University of Wisconsin—Madison, 1997)
Robert Langstroth (Geography, University of Wisconsin—Madison, 1996)
Michael Castellon (Geography, University of Wisconsin—Madison, 1996)
Peter Newell (Geography, University of Wisconsin—Madison, 1995)
Laurie Greenberg (Geography, University of Wisconsin—Madison, 1995)
Oliver Coomes (Geography, University of Wisconsin—Madison, 1994)
Martha Geores (1993) (UNC advisee, Professor, University of Maryland, since 1994)

(iii) Member, Ph.D Candidacy Exam Committee (year of exam in parentheses)

Courtney Jackson (2018, Geography, Penn State)
María Vivanco (2018, Penn State, Agricultural Economics and Rural Sociology)
Jamie Peeler (2017, Geography, Penn State)
Carolynne Hultquist (2017, Geography, Penn State)
Abou Traore (2016, Penn State, Agricultural Economics and Rural Sociology)

Kelsey Brain (2016, Geography, Penn State)
Ashlee Adams (2015, Geography, Penn State)
Sara Cavallo (2015, Geography, Penn State)
Nari Senanayake (2014, Geography, Penn State)
Sterling Quinn (2014, Geography, Penn State)
Catherine Airey (2014, Geography, Penn State)
Adrienne Tucker (2014, Geography, Penn State)
Lucas Harris (2014, Geography, Penn State)
L-San Hung (2012, Geography, Penn State)
Kayla Yurco (2011, Geography, Penn State)
Jennifer Smith (2011, Geography, Penn State)
Amanda Young (2011, Geography, Penn State)
Rachel Isaacs (2010, Geography, Penn State)
Nancy Brown (2008, Geography, Penn State)

(iv) Member, Master's (M.S.) Committee Member (current students)

Zachary Goldberg (Geography, M. S., active, 2017-)

SERVICE

A) INTERNATIONAL AND NATIONAL SCIENTIFIC AND SCHOLARLY PANELS

2010-19	Advisor (fellowship proposal reading, evaluation, and fellow selection), John Simon Guggenheim Memorial Foundation---Geography & Environmental Studies
2014-19	International Advisory Board, Sustaining Futures for Europe's Heritage in Cultural Landscapes (HERCULES; funded through the European Union)
2009	Member of International Review Panel, Rural Development Studies Cluster, Mansholt Graduate School of Social Sciences and Social Sciences Chair Groups, Wageningen University, Netherlands, including extended site visit
2007-09	Member of Commissioned External Review Panel (CICER), International Center for Tropical Agriculture (CIAT), Cali, Colombia, including extended site visit
2002-07	Representative, Committee on Geographical Theory and Methods, Panamerican Geography and History Commission (national commission of the PAIGH)
2002-06	External Advisory Committee; Agriculture, Conservation, and Development Initiatives; International Potato Center (CIP), Lima, Peru
1998-2002	Member of Directorate, International Consortium on Environment, Justice, and Citizenship, Rainforest Alliance (Washington, D.C.)
1991-94	"Environment and Development" Expert to the National Council on Geographic Education

1987-90 Panelist, Lost Crops of the Inca, National Research Council, Washington, D.C.

B) DEPARTMENTAL SERVICE

2016-19 Faculty Advisory Committee (FAC), Department of Geography
2016-17 Member, Undergraduate Studies Committee, Department of Geography
2016-17 Search Committee, Environment and Society Geography
2014-15 Co-Chair, Coffee Hour Committee
2014-15 Search Committee, Environment and Society Geography

2007-14 Head, Department of Geography, Pennsylvania State University (22 tenure-line faculty and 55 staff in department and on-line programs; annual budget 6.0 million dollars)

2004-06 Chair, Department of Geography, University of Wisconsin---Madison (18 tenure-line faculty and 40 staff in department and on-line programs; annual budget 2.8 million dollars)

2004-06 Associate Chair, Department of Geography, University of Wisconsin---Madison (18 tenure-line faculty and 40 staff in department and on-line programs; annual budget 2.8 million dollars)

C) COLLEGE AND UNIVERSITY SERVICE

2016-19 University Selection Committee, Faculty Scholar Medal in the Social and Behavioral Sciences
2016-19 Faculty Advisory Committee (FAC), College of Earth and Mineral Sciences
2017-19 Faculty Performance Evaluation (FPE) Committee, College of Earth and Mineral Sciences
2017-18 Council on Agricultural Innovation: Scientific, Ethical, Legal, Social Issues (CAI -SELSI)
2014-15 Faculty Performance Evaluation (FPE) Committee, College of Earth and Mineral Sciences
2014-15 Academic Integrity Committee, College of Earth and Mineral Sciences
2012-16 Co-Chair, Task Force, Peru as a Global Excellence Node (GEN), Office of Global Programs, Penn State, with consortium of five Peruvian universities and research institutions
2011-13 Chair, Search Committee for Director of the Dutton Institute (Online Education Center), College of Earth and Mineral Sciences, Pennsylvania State University
2010-11 Chair, Search Committee for Head of Department of Geosciences, College of Earth and Mineral Sciences, Pennsylvania State University

1999-04 Director, Environment and Development Advanced Research Circle (UW—Madison Graduate School and International Institute)

D) EXTERNAL SERVICE TO COLLEGES AND UNIVERSITIES

2014 Member, External Review Committee, Department of Geography, Louisiana State University
2013 Member, External Review Committee, Department of Geography, University of Maryland
2013 Chair and Member, External Review Committee, Department of Geography, Indiana University
2010 Co-Chair and Member, External Review Committee, Department of Geography, University of Texas at Austin
2007 Co-Chair and Member, External Review Committee, Department of Geography, University of California, Berkeley
2001 Chair and Member, External Review Committee, Department of Geography, Indiana University

E) EDITORSHIPS AND MEMBERSHIP ON EDITORIAL AND ADVISORY BOARDS (NATIONAL AND INTERNATIONAL)

2012-20 Editorial Board, *Annals of the Association of American Geographers*
2016-19 Editorial Board, *Anthropocene*
2016-19 Editorial Board, *Sustainability Science*
2018-20 Editorial Board, *Ciudad y Territorio: Estudios Territoriales (Madrid)*
2018 Guest Editorship, *Sustainability Science*
2015-18 Editorial Board, *Erdkunde* (*Journal of Landscape Geography*)
2013-18 Editorial Board, *Journal of Land Use Science*
2012-18 International Advisory Board, *Journal of Agrarian Change*
2012-18 Editorial Board, *AAG Review of Books*
2004-13 Editor, Nature-Society Section, *Annals of the Association of American Geographers,* (Editorship of the flagship journal of the Association of American Geographers, the principal international organization of professional geographers. The editorship involves the editor in a principal role for each article published under the editorship. A total of ninety-two (92) full-length articles were published during my editorship of the Nature-Society section.
2011-13 Guest Editor, *Conservation Letters*
2001-08 Editorial Board, *The Professional Geographer*
2001-04 Editor, *Journal of Latin American Geography*

F) SERVICE TO THE PROFESSION (NON-EDITORSHIP)

2015-16	Member, Review Panel for the Geography and Regional Science and Sociology Programs (Graduate Research Fellowship) of the National Science Foundation
2014	Member, Review Panel for the Multi-Program Competition in Large Awards for Energy Systems and Sustainability Research, National Science Foundation
2011-13	Honors Committee of the Association of American Geographers (2 year term)
1995-97	Member, Review Panel for the Geography and Regional Science Program of the National Science Foundation
1994-96	Elected Chair, Latin America Specialty Group, Association of American Geographers
1992-94	Elected Vice-Chair, Latin America Specialty Group, Association of American Geographers
1992-94	Elected Councilor, Mid-Western Region, Cultural and Political Ecology (CAPE) Specialty Group, Association of American Geographers
1991-94	Elected Member, Board of Directors, Conference of Latin Americanist Geographers

G) PROFESSIONAL EVALUTIONS AND REVIEWS (PAST 5 YEARS)

Available upon Request

SHORT PUBLICATIONS AND PUBLICITY/NEWS RELEASES ON MY RESEARCH

A) SCHOLARLY NOTES, REVIEWS, AND COMMENTARIES

nd	Book Review, The Rules of the Game and the Game of the Rules: Normalization and resistance in Andean water control (Wageningen University, 2009) by R. Boelens. In *Human Ecology* (forthcoming).
2017	Book Review, The Invention of Nature: Alexander von Humboldt's New World. (Vintage Books, 2016) by Andrea Wulf. In *Journal of Latin American Geography* (accepted, forthcoming).
2016	Book Review, Spell of the Urubamba: Anthropogeographical Essays on an Andean Valley in Space and Time (Springer Scientific, 2016) by D.W. Gade. In *American Association of Geography Review of Books* (AAGRB) 4 (3): 127-130. doi:10.1080/2325548X.2016.1187490
2016	Published Comment and Review, "Comparing peasants' perceptions of precipitation change with precipitation records in the tropical Callejón de Huaylas, Peru" by W. Gurgiser et al. In *Earth Systems Dynamics Discussion* 6: C1017–C1020. http://www.earth-syst-dynam-discuss.net/6/C1017/2016/esdd-6-C1017-2016.
2015	Published endorsement---"Blurb"): Climate cultures: Anthropological perspectives on climate change (Yale University Press, 2015) by J. Barnes and M.R. Dove, eds.

2014 Interview, "Karl Zimmerer Interviews Stefanie Graeter," 2014 Rappaport Prize Co-Winner. Anthropology and Environment Society. http://ae.americananthro.org/karl-zimmerer-interviews-stefanie-graeter-2014-rappaport-prize-co-winner/

2013 Book Review, Protected Land: Disturbance, Stress, and American Ecosystem Management. (Springer Scientific, 2010) by D.J. Spieles. In *Ecological Engineering* 55: 93.

2013 Publication Endorsement Statement--"Blurb": The social lives of forests: Past, present, and future of woodland resurgence (University of Chicago Press, 2013) by S.B. Hecht, K.D. Morrison, and C. Padoch.

2011 Book Review, Essay on the Geography of Plants (University of Chicago, 2010). By Alexander von Humboldt, edited by S. Jackson and translated by S. Romanowski. In *The Geographical Review* 101 (3): 458-460.

2008 "Landscape Change at the Margins: Pathway of Intensification and/or Model of Intensive Agriculture?" Commentary on 'Variable Development of Dryland Agriculture in Hawaii' by T.N. Ladefoged and M.W. Graves. In *Current Anthropology* 49(5): 793-794.

2008 Book Review, The Humboldt Current: Nineteenth-Century Exploration and the Roots of American Environmentalism. By A. Sachs. In *Annals of the Association of American Geographers* 98(3): 745-748.

2006 Note, "Humboldt and the history of environmental thought." *The Geographical Review* 96(3): 456-459.

2003 Book Review, Bridging Human and Ecological Landscapes: Participatory Research and Sustainable Development in an Andean Agricultural Frontier. By R.E. Rhoades. In *Mountain Research and Development* 23(3): 305-306.

2001 Book Review, Nature and Culture in the Andes. By D.W. Gade. In *American Anthropologist* 103 (2): 590-591.

2001 Letter, "The contribution of geography and ethno-landscape ecology to plant genetic resources." In *People and Plants Handbook: Sources for Applying Ethnobotany to Conservation and Community Development*, Volume 7, page 4, eds. G.J. Martin, S. Barrow, and P.E. Eyzaguirre. United Nations, UNESCO (New York); unesdoc.unesco.org/images/0012/001239/123911eb.pdf.

2001 Published endorsement ("blurb"): *Violent Environments* by N.L. Peluso and Michael Watts (Cornell University Press).

2001 Published endorsement ("blurb"): *Black Rice: The African Origins of Rice Cultivation in the Americas* by J.A. Carney (Harvard University Press).

1999 Published endorsement ("blurb"): *Nature and Culture in the Andes.* By D.W. Gade (University of Wisconsin Press).

1999 Book Review, Facilitating Sustainable Agriculture: Participatory Learning and Adaptive Management in Times of Environmental Uncertainty. By N.G. Rošling and M.A.E. Wagemakers. In *Quarterly Review of Biology* 74(1): 118-119.

1996 Book Review, Andean Ecology: Adaptive Dynamics in Ecuador. By Gregory Knapp. In *Annals of the Association of American Geographers* 86(4): 784-786.

1995 Book Review, Poverty and Peasantry in Peru's Southern Andes, 1963-1990. By R.F. Watters. In *Annals of the Association of American Geographers* 84(2): 252-254.

1995 Note, The Geography of Daniel W. Gade, Recipient of the Preston James Award, *Conference of Latin Americanist Geographers* Volume 21: 115-119.

1994 Book Review, Historical Geography of Crop Plants: A Select Roster. By Jonathan Sauer. In *Annals of the Association of American Geographers* 84(4): 744-746.

1994 Book Review, Mountain Agriculture and Crop Genetic Resources. By K. W. Riley. In *Mountain Research and Development* 14: 99-100.

1993 Book Review, The Potatoes of South America: Bolivia. By C.M. Ochoa. In *Cultural and Political Ecology (CAPE) Newsletter* 23: 2-3.

1991 Note, Report on "The International Symposium on Strategies for Sustainable Mountain Development, Kathmandu, Nepal." In *The Professional Geographer* 43(2): 233-234.

1990 Commentary on "La interpretación ecologista de la historia socio-económica: Algunos ejemplos andinos." By J. Martinez-Alier. In *Revista Andina* 8(1): 40-42.

1989 Book Review, Genetic Resources of *Phaseolus Beans*. By P. Gepts. In *Economic Botany* 44(3): 420.

1989 Book Review, Our Daily Bread: The peasant question and family farming in the Colombian Andes. By N, Reinhart. In *Economic Geography* 65(1): 85-88.

1989 Book Review, Where the Dove Calls: The political ecology of a peasant corporate community. By T.E. Sheridan. In *Annals of the Association of American Geographers* 79(4): 634-636).

1989 Book Review, Plant Migration: The dynamics of geographic patterning in seed plant species. By J.D. Sauer. *Geographical Review* 79(4): 496-498.

B) SHORT ARTCLES, ESSAYS, AND EDITORIALS

2017 "Fewer crops are feeding more people worldwide – and that's not good." *The Conversation* (on-line), http://theconversation.com/fewer-crops-are-feeding-more-people-worldwide-and-thats-not-good-86105 (published November 28). Subsequently published in the *Chicago Tribune* (November 29), the *Houston Chronicle* (November 29), and the Stanford Millennium Alliance for Humanity and Biosphere (MAHB) (December 12, 2017) as "Why we need agriculture to be diverse, too", and UN*DARK: Truth, Beauty, Science* (November 30) as "Agrobiodiversity is disappearing at a time when we need it most: Global shifts of urbanization, migration, markets, and climate can be

compatible with agrobiodiversity, but other powerful forces are undermining it." Also re-published in other outlets.

2014 "Foodscapes: The land use ecology and culinary practices of food in cultural landscapes," Cultural Landscapes Blog, Sustainable Futures for Europe's Heritage in Cultural Landscapes project (HERCULES).

2014 "Geography, big data, and more," Note from the Department Head, page 2, Newsletter of the Geography Department, The Pennsylvania State University, Spring, Volume 13, Issue 1.

2013 "Climate change and geography," Note from the Department Head, page 2, Newsletter of the Geography Department, The Pennsylvania State University, Fall, Volume 12, Issue 2.

2013 "Boundaries and networks in geography and beyond," Note from the Department Head, page 2, *Newsletter of the Geography Department*, Pennsylvania State University, Spring, Volume 12, Issue 1.

2013 "The AAG Distinguished Scholarship Award---Judith A. Carney," In *AAG Newsletter* (Association of American Geographers), Volume 48, Number 2, February.

2012 "Onward and upward with Penn State Geography," Note from the Department Head, page 2, *Newsletter of the Geography Department,* Pennsylvania State University, Fall, Volume 11, Issue 2.

2012 "The AAG Distinguished Scholarship Award---Richard A. Walker," In *AAG Newsletter* (Association of American Geographers), Volume 47, Number 2, February.

2012 "Valuing and Engaging with Alumni," Note of the Department Head, page 2, *Newsletter of the Geography Department,* Pennsylvania State University, Winter/Spring issue, Volume 11, Issue 1, page 2.

2011 "Important Roles of Faculty Emeriti," Note of the Department Head, page 2, *Newsletter of the Geography Department, The Pennsylvania State University*, Summer/Fall issue, Volume 10, Issue 2, page 2.

2011 "Geographies of Energy: AAG Annals Special Issue," In *AAG Newsletter* (Association of American Geographers), Volume 46, Number 6, June.

2011 "Interdisciplinary Faculty Searches: Energy Policy and Earth Systems Ecology," Note of the Department Head, page 2, *Newsletter of the Geography Department, The Pennsylvania State University*, Summer/Fall issue, Volume 10, Issue 1, page 2.

2010 "Penn State Geography in the NRC Rankings," Note of the Department Head, page 2, *Newsletter of the Geography Department, The Pennsylvania State University*, Summer/Fall issue, Volume 9, Issue 1, page 2.

2010 "Geography in the Context of Pasteur's Quadrant," Note of the Department Head, page 2, *Newsletter of the Geography Department, The Pennsylvania State University*, Winter/Spring issue, Volume 8, Issue 1, page 2.

2009 Publication endorsement ("blurb"): *The Atlas of World Hunger* by Thomas J. Bassett and Alex Winter-Nelson (University of Chicago Press).

2009 Publication endorsement ("blurb"): *In the Shadow of Slavery: Africa's Botanical Legacy in the Atlantic World* by Judith A. Carney (University of California Press).

2009 "Geography and Interdisciplinarity," Note of the Department Head, page 2, *Newsletter of the Geography Department, The Pennsylvania State University*, Summer/Fall issue, Volume 7, Issue 1, page 2.

2009 "Geography in the Re-Design of the Teacher Education Curriculum: Recent Experience at Penn State" (with J. Vender), *AAG Newsletter (Association of American Geographers)* (Volume 44, Number 3, March 2009).

2008 "Celebrating the Department Coffee Hour," Note of the Department Head, page 2, *Newsletter of the Geography Department, The Pennsylvania State University*, Summer/Fall issue, Volume 6, Issue 2, page 2.

2008 "Strategic Planning in the Department," Note of the Department Head, page 2, *Newsletter of the Geography Department, The Pennsylvania State University*, Winter/Spring issue, Volume 6, Issue 1, page 2.

C) NEWS RELEASES AND PUBLISHED DESCRIPTIONS ABOUT THE RESEARCH AND TEACHING OF KARL ZIMMERER (PRIOR SEVEN YEARS, 2011-2018)

2018 "*In situ* conservation challenges." World Potato Congress Web News, https://www.worldpotatocongress2018-alap.org/wp-content/uploads/2018/06/WS-J-ZIMMERER-POWER-POINT1.pdf

2017 "Fewer crops are feeding more people worldwide." Penn State News, http://theconversation.com/fewer-crops-are-feeding-more-people-worldwide-and-thats-not-good-86105 (published December 8).

2017 "THE BIG STORY: Integrated Approach Needed to Protect Crop Biodiversity, Researcher Says." Mainstream: Penn State Sustainability News. Published 11 May 2017. http://www.icontact-archive.com/kMnNjucz6ZG0ILgbESZqxtz3a4903FSy..

2017 "Integrated Approach Needed to Protect Crop Biodiversity, Researcher Says." Penn State News. Published 10 May 2017. http://news.psu.edu/story/467862/2017/05/10/research/integrative-approach-needed-protect-crop-biodiversity-researcher

2017 "Expanding the Horizons of Biodiversity for Sustainable Food Futures" by Karl Zimmerer and Stef de Haan. Program of the Global Consultative Group on International Agricultural Research (CGIAR) on Roots, Tubers and Bananas (RTB). Published 7 April 2017. http://www.rtb.cgiar.org/blog/2017/04/07/expanding-horizons-biodiversity-sustainable-food-futures/

2017 "The Effects of Melting Glaciers on Tropical Communities" by Jesse Westbrook. College of Earth and Mineral Sciences, Pennsylvania State University. Published 16 January 2017.

http://news.psu.edu/story/440485/2017/01/16/research/effects-melting-glaciers-tropical-communities

2016 "El agrobiodiversidad y su aprovechamiento en el Perú" with Eric Zimmerer. Encuentros con la Ciencia con Modesto Montoya, Lima, Peru. https://www.youtube.com/watch?v=-doeRRPEwAM

2016 "Karl Zimmerer: Custer Visiting Scholar." David Rockefeller Center for Latin American Studies, Harvard University. Published 20 January 2016. http://drclas.harvard.edu/people/karl-zimmerer

2015 "New Course Explores Geographies of Sustainability and Food: Faculty from Multiple Disciplines Develop an Integrated Approach" by Angela Rogers, Pennsylvania State University, Spring 2015. http://www.geog.psu.edu/news/penn-state-geography-newsletter/spring-2015-newsletter/6-new-course-explores-geographies

2015 "World Crop Diversity Survives From Peri-Urban to Remote Rural Locations" by A'ndrea Elyse Messer, Pennsylvania State University. Published 13 February 2015. http://news.psu.edu/story/344861/2015/02/13/research/world-crop-diversity-survives-peri-urban-remote-rural-locations

2014 "Top-Down and Bottom-Up Approach Needed to Conserve Potato Agrobiodiversity" by A'ndrea Elyse Messer, Pennsylvania State University. Published 15 February 2014. http://news.psu.edu/story/304191/2014/02/15/research/top-down-and-bottom-approach-needed-conserve-potato

2013 "American Geographical Society Awards Melamid Medal to Dr. Karl Zimmerer." The American Geographical Society (AGS). Published 17 December 2013. https://amergeog.wordpress.com/2013/12/17/american-geographical-society-awards-melamid-medal-to-dr-karl-zimmerer/

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