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ACADEMIC EMPLOYMENT

Professor, Department of Environmental Studies, UC-Santa Cruz (2017-)
Associate Professor, Department of Environmental Studies, UC-Santa Cruz (2010-2016)
Assistant Professor, Department of Environmental Studies, UC-Santa Cruz (2006-2010)
Faculty Director, Center for Integrated Spatial Research, UC-Santa Cruz (2014-)
Faculty Co-Director, Center for Integrated Spatial Research, UC-Santa Cruz (2009-2014)
Participating Faculty, Department of Latin American and Latino Studies, UC-Santa Cruz (2006-)
Participating Faculty, Anthropology Department, UC-Santa Cruz (2011-)

Assistant Professor, Department of Geography and Human Environmental Studies, San Francisco State University, 2002-2006.

Visiting Scholar, The University of the Pacific, Lima, Peru, 2000-2001 & 2005-2006

Visiting Scholar, The National University of Cajamarca, Peru, 2000-2001.

EDUCATION

Ph.D. Geography, University of Colorado at Boulder, 2002
Dissertation title: *The Political Ecology of Transnational Mining Corporations and Livelihood Transformation in Cajamarca Peru*

M.A. International Affairs, The American University, Washington D.C., 1995
Thesis title: *Carbon Sequestration and the Business Response to Global Warming*

B.A. Honors Political Science, The University of Utah, 1993
Thesis title: *Environmental Decline in the Aral Sea Region.*

RECENT PUBLICATIONS

Books

2013 Bebbington, A. and Bury, J. (eds.) *Subterranean Struggles: New Geographies of Extractive Industries in Latin America*. University of Texas-Austin Press.

Articles in Professional Journals

2017 Mark, B. G., A. French, M. Baraer, M. Carey, J. Bury, K. R. Young, M. H. Polk, O. Wigmore, P. Lagos, R. Crumley, J. M. McKenzie, and L. Lautz, Glacier loss and hydro-social risks in the Peruvian Andes, *Global and Planetary Change* 159 (Supplement C): 61-76

- Forth. Guittard, A., M. Baraer, J.M. McKenzie, B. G. Mark, O. Wigmore, A. Fernandez; A. Rapre, E. Walsh, J. Bury, M. Carey, A. French; K.R. Young, Trace metal contamination in the glacierized Rio Santa Watershed, Peru, *Environmental Monitoring and Assessment*
- In Review Crandall, S, Ohayan, J., de Wit, L., Hammond, J.E., Melanson, K., Moritsch, M., Davenport, R., Quadri, P., Ruiz, D., Keitt, B., Holmes, N., Packard, H., Bury, J., Gilbert, G, Parker, I., Social science approaches to inform decision-making for conservation: a review. *Biological Conservation*
- 2016 Polk, M.H., K.R. Young, M. Baraer, B.G. Mark, J.M. McKenzie, J. Bury and M. Carey. Exploring Hydrologic Connections between Tropical Mountain Wetlands and Glacier Recession, *Applied Geography* 78: 94-103.
- 2016 French, A., J. Bury, B. G. Mark, M. Carey, K. R. Young, J. McKenzie, M. Baraer & M. H. Polk. Coyuntura crítica: Cambio climático, globalización y la doble exposición del sistema socio-hidrológico de la cuenca del Río Santa, Perú. In J. C. Postigo and K. R. Young (eds.). *Perspectivas Socio-Ecológicas y Cambios Globales en América Latina*. Instituto de Estudios Peruanos, Lima.
- 2015 Bebbington, A.J., Bury, J., Cuba, N., and Rogan J., Mining, risk and climate resilience in the 'other' Pacific: Latin American lessons for the South Pacific. *Asia Pacific Viewpoint* 56(2): 189-207.
- 2014 Baraer, M., McKenzie, J., Mark, B., Gordon, R., Bury, J., Condom, T., Gomez, J., Knox, S., Fortner, S., Contribution of groundwater to outflow from ungauged glacierized catchments: a multi-site study in the tropical Cordillera Blanca, Peru. *Hydrological Processes*. DOI: 10.1002/hyp.10386.
- 2014 Wrathall, D., Bury, J., Carey, M., Mark, B.G., McKenzie, J., Young, K.R., Baraer, M., French, A., and Rampini, C. Migration and climate rigidity traps: socio-ecological possibilism and resource politics in Honduras and Peru, *Annals of the Association of American Geographers* 104: 292-304.
- 2014 Carey, M. Baraer, M., Mark, B.G., French, A., Bury, J., Young, K.R., and J. McKenzie. Toward hydro-social modelling: merging human variables and the social sciences with climate-glacier runoff models (Santa River, Peru), *Journal of Hydrology* 518: 60-70.
- 2014 Mark, B.G., M. Baraer, K.I. Huh, M. Carey, A. French, J. Bury, K. Young, J. McKenzie, A. Eddy, A. Fernandez and Oliver Wigmore†. From glaciers to the desert: Assessing hydrologic change and social vulnerability across a tropical Andean waterscape. Proceedings from the 71st Eastern Snow Conference, Boone, NC, 3-5 June, 2014.
- 2013 French, A. and J. Bury. Conclusion, social vulnerability and global change. In *Los Impactos del Cambio Global en las Areas Naturales Protegidas y sus Zonas de Influencia: El Caso del Parque Nacional y la Cuenca del Rio Santa*. Lima: Ministry of the Environment. pp. 35-37
- 2013 Bury, J., Mark, B.G., Carey, M., Young, K.R., McKenzie, J., Baraer, M., French, A., Polk, M. New geographies of water and climate change in Peru: coupled natural and social transformations in the Santa River Watershed, *Annals of the Association of American Geographers*, 103(2), 363-374.
- 2012 Cary, M.; Huggel, C., Bury, J. Portocarrero, C., and Haeberli, W. An integrated socio-environmental framework for glacier hazard management and climate change adaptation: lessons from Lake 513, Cordillera Blanca, Peru, *Climatic Change* 112(3), 733-767.
- 2012 Baraer, M., Mark, B., McKenzie, J. Condom, T., Bury, J., Huh, K., Portocarrero, C.,

- Gomez, J. and S. Rathay. Glacier recession and water resources in Peru's Cordillera Blanca, *Annals of Glaciology* 58(207), 1-17.
- 2012 Baraer, M., Mark, B., McKenzie, J. Condom, T., Bury, J., Huh, K., Portocarrero, C., Gomez, J. and S. Rathay. Recesion de glaciares y recursos hidricos en la Cordillera Blanca del Peru, *Journal of Glaciology* 58(207), 1-17. (Spanish Version)
- 2011 Fortner, S.K., Mark, B.G., McKenzie, J.M., Bury, J., Trierweiler, A., Baraer, M., Burns, P.J., and Munk, L.-A., Elevated stream trace and minor element concentrations in the foreland of receding tropical glaciers. *Applied Geochemistry* 26(11), 1792-1801.
- 2011 Bury, Jeffrey, Mark, B., McKenzie, J., French, A., Baraer, M., Huh, K., Luyo, M. and J. Gómez. Glacier recession and livelihood vulnerability in the Cordillera Blanca, Peru. *Climatic Change*. 105: 179-206.
- 2010 Mark, Bryan, Bury, J., McKenzie, J. and A. French. Climate change and Tropical Andean glacier recession: evaluating hydrologic changes and livelihood vulnerability in the Cordillera Blanca, Peru. *Annals of the Association of American Geographers* 100(4), 794-805.
- 2010 Bebbington, A. and J. Bury, Minería, instituciones y sostenibilidad: desencuentros y desafíos, *Anthropologica* XXVIII (28), Suplemento 1: 53-84 (Peru)
- 2009 Baraer, Michel., McKenzie, J., Mark, B., Bury, J., and S. Knox, Characterizing contributions of glacier melt and ground water during the dry season in a poorly gauged catchment of the Cordillera Blanca (Peru), *Advances in Geosciences* 22: 41-49.
- 2009 Bebbington, Anthony and Jeffrey Bury, Confronting the institutional challenge for mining and sustainability: the case of Peru, *Proceedings of the National Academy of Sciences* 106(41), 17296-17301
- 2009 French, Adam and Jeffrey Bury, Livelihoods at risk: agricultural viability and converging climatic and economic change in the Central Andes, *Mountain Forum Bulletin* 9(1), 7-9
- 2008 Ecotourism and conservation in the Cordillera Huayhuash, Peru, *Tourism Geographies* 10(3), 312-333
- 2008 Transnational corporations and livelihood transformations in the Peruvian Andes: An actor-oriented political ecology, *Human Organization* 67(3), 307-321
- 2008 Bebbington, Anthony, Bury, J., Humphreys-Bebbington, D., Langan, J., Munos, J.P. and M. Scurrah. Mining and social movements: struggles over livelihood and rural territorial development in the Andes, *World Development* 12(36), 2888-2905
- 2007 Mining and migration in the Peruvian Andes, *Professional Geographer* 58(3), 378-389
- 2006 New community-led conservation efforts in the Cordillera Huayhuash, Peru, *Mountain Research and Development* 26(2), 180-182
- 2005 Mining mountains: neoliberalism, land tenure, livelihoods and the new Peruvian mining industry in Cajamarca, *Environment and Planning A* 37(2), 221-239
- 2004 Livelihoods in transition: transnational gold mining operations and local change in Cajamarca, Peru, *Geographic Journal* 170(1), 78-91
- 2002 Peasant protests, livelihoods and mining in the Peruvian Andes, *Journal of Latin American Geography* 1(1), 3-17
- 2001 Corporations and capitals: a framework for evaluating the impacts of transnational

corporations in developing countries, *Journal of Corporate Citizenship* 1(Spring), 75-91

Chapters and Other Works

- 2016 French, A., J. Bury, B. G. Mark, M. Carey, K. R. Young, J. McKenzie, M. Baraer & M. H. Polk. Coyuntura crítica: Cambio climático, globalización y la doble exposición del sistema socio-hidrológico de la cuenca del Río Santa, Perú. In J. C. Postigo and K. R. Young (eds.). *Perspectivas Socio-Ecológicas y Cambios Globales en América Latina*. Instituto de Estudios Peruanos, Lima. In press.
- 2015 Bury, J., The frozen frontier: the extractives super cycle in a time of glacier recession, in C. Huggel, M. Carey, J. J. Clague, and A. Kääh, eds. 2015. *The High-Mountain Cryosphere: Environmental Changes and Human Risks*, Cambridge University Press, pp. 71-89.
- 2015 Bury, J., Greening the industrial and mining sectors, in Kohler et al, eds, *Rio+20 Mountains Report*, Centre for Development and Environment, Swiss Development Agency, pp. 59-64.
- 2013 Bebbington, A., Bury, J., and E. Gallagher, Conclusions, in A. Bebbington and J. Bury, *Subterranean Struggles: New Dynamics of Mining, Oil, and Gas in Latin America*. Austin, University of Texas Press, pp. 267-288.
- 2013 Bebbington, A., Humphreys-Bebbington, D., Hinojosa, L., Burneo, M.L, and J. Bury, Anatomies of conflict: social mobilization and new political ecologies of the Andes, in A. Bebbington and J. Bury, *Subterranean Struggles: New Dynamics of Mining, Oil, and Gas in Latin America*. Austin, University of Texas Press, pp. 241-266.
- 2013 Bury, J. and T. Norris. Rocks, rangers and resistance: mining and conservation frontiers in the Cordillera Huayhuash, Peru, in A. Bebbington and J. Bury, *Subterranean Struggles: New Dynamics of Mining, Oil, and Gas in Latin America*. Austin, University of Texas Press, pp. 68-91.
- 2013 Bury, J. and A. Bebbington, New geographies of extractive industries in Latin America, in A. Bebbington and J. Bury, *Subterranean Struggles: New Dynamics of Mining, Oil, and Gas in Latin America*. Austin, University of Texas Press, pp. 17-66.
- 2013 Bebbington, A. and J. Bury, Political ecologies of the subsoil, in A. Bebbington and J. Bury, *Subterranean Struggles: New Dynamics of Mining, Oil, and Gas in Latin America*. Austin, University of Texas Press, pp. 1-16.
- 2013 French, A. and J. Bury. Conclusion, social vulnerability and global change. In *Los Impactos del Cambio Global en las Areas Naturales Protegidas y sus Zonas de Influencia: El Caso del Parque Nacional y la Cuenca del Rio Santa*. Lima: Ministry of the Environment. pp. 35-37.
- 2013 Bebbington, A., Humphreys Bebbington, D., Hinojosa, L., Burneo, M., Warnars, X., and J. Bury. Anatomias del conflicto: la negociacion de las geografias de la industria extracativa en los paises andinos, in A. Bebbington, ed., *Industrias Extractivas: Conflicto Social y Dinamicas Institucionales en la Region Andina*, Lima, Instituto de Estudios Peruanos, pp. 319-348.
- 2012 Bury, J. The Himalayan Vertical Archipelago: Climate Change, Glacial Lake Insecurity, and Institutional Capacity in the Khumbu Himalaya. In *Andean-Asian Mountains Global Knowledge Exchange on Glaciers, Glacial Lakes, Water & Hazard Management*, TMI/USAID, pp. 44-49.
- 2010 Mining and Geography, B. Warf (ed.), *Encyclopedia of Geography*, Sage Publications
- 2010 Bebbington, A., Humphreys-Bebbington, D. and J. Bury, Anatomies of struggle: water,

- territory and extraction in the Andes, in R. Boelens, A. Guevara and D. Getches (eds.), *Out of the Mainstream*, London, Earthscan, pp. 307-327.
- 2009 Orlove, Ben, Jeffrey Bury and Charles Walker. *Climate change and water in the Andes symposium report*. Mountain Research Initiative Newsletter, (3), October: 41-43
- 2009 Adapting to uncertain futures: glacier recession and human vulnerability in the Peruvian Andes, *American Geophysical Union Abstracts*
- 2009 Bury, J. and B. Mark NSF Nugget, Climate Change and Livelihoods in the Cordillera Blanca, Peru, *NSF Science Highlights*, National Science Foundation
- 2008 Bury, J., French, A., Mark, B., and J. McKenzie, Adapting to uncertain futures: a report on new glacier recession and livelihood vulnerability research in the Peruvian Andes, *Mountain Research and Development* 28(3/4), 332-333
- 2008 Baraer, M., McKenzie, J.M., Mark, B.G. and J. Bury Climate change related evolution of water resources in the Cordillera Blanca, Peru, *Abstracts of the Alexander Von Humboldt Conference*, Santiago, Chile
- 2008 Bebbington, A., Bury, J., Humphreys-Bebbington, D., Lingan, J., Munoz, J.P. and M. Scurrah Mining and Social Movements: Struggles over Livelihood and Rural Territorial Development in the Andes, Social Science Research Network, Brooks World Poverty Institute.
- 2007 Bebbington, A., Bury, J., Bebbington, D.H., Lingan, J., Munoz, J.P. and Scurrah, M., Movimientos sociales, lazos transnacionales y desarrollo territorial rural en zonas de influencia minera: Cajamarca-Peru y Cotacachi-Ecuador., *Minería, movimientos sociales y respuestas campesinas. Una ecología política de transformaciones territoriales*, Lima, Instituto de Estudios Peruanos, 163-230 A. Bebbington (ed.)
- 2007 Neoliberalism, mining and rural change in Cajamarca, *Minería, movimientos sociales y respuestas campesinas. Una ecología política de transformaciones territoriales*, Lima, Instituto de Estudios Peruanos, 49-80 A. Bebbington (ed.)
- 2007 Mining, migration and livelihood transformations in Cajamarca, Peru, *Minería, movimientos sociales y respuestas campesinas. Una ecología política de transformaciones territoriales*, Lima, Instituto de Estudios Peruanos, 231-277 A. Bebbington (ed.)
- 2007 Bebbington, A., Humphreys Bebbington, D., Bury, J., Lingan, J., Muñoz, J.P. and Scurrah, M., Los movimientos sociales frente a la minería: disputando el desarrollo territorial andino, *Movimientos sociales y Desarrollo territorial rural en América Latina*, Santiago, Editorial Catalonia, 283-315 J. Bengoa (ed.)
- 2003 Frameworks and Methodologies for Evaluating Socially Responsible Business: A Case Study of Minera Yanacocha, *De la Caridad a la Solidaridad: Filantropía y Voluntariado en el Peru*. Lima, Peru, University of the Pacific: Center for Investigation, 385-423 F. Portocarrero and C. Sanborn (eds.)
- 2003 NSF Nuggets: Doctoral Dissertation Research, Transnational Corporations and Livelihood Transformations in the Peruvian Andes, *National Science Foundation*, (BCS-0002347)

GRANTS, AWARDS AND HONORS

- 2016 Co-Principal Investigator (2014-16), The Nature Conservancy (United States), Coastal Resilience Applications and Analyses (with Barry Nickel, CISR Director, UC-Santa Cruz) \$223,000
- 2016 Co-Principal Investigator (2013-16), The Nature Conservancy (Global), Coastal Resilience-Spatial Analysis, Cartography, Web Mapping Development (with Barry Nickel, CISR Director, UC-Santa

- Cruz) \$217,000
- 2016 Co-Principal Investigator, InspecTools, GIS Framework for Solar Panel Quality Analyses (with Barry Nickel, CISR Director, UC-Santa Cruz) \$222,222
- 2016 Co-Principal Investigator (2015-16), Elkhorn Slough, Center for Integrated Spatial Research Training Program (with Barry Nickel, CISR Director, UC-Santa Cruz) \$100,000
- 2016 Co-Principal Investigator (2012-16), University of California Office of the President (UCOP), Web Mapping Development (with Barry Nickel, CISR Director, UC-Santa Cruz) \$45,200
- 2014 Golden Apple Teaching Award. Division of Social Sciences. University of California, Santa Cruz.
- 2013 Co-Principal Investigator, Ventana Wilderness Alliance, Internet Mapping and GIS Services (with Barry Nickel, CISR Director, UC-Santa Cruz) \$10,000
- 2013 Co-Investigator, NSF, Pathways: Apprenticeships in Sustainability Science and Engineering Design (ASCEND) with Michael Isaacson (Electrical Engineering), Doris Ash (Education), and Irene Lusztig (Film and Digital Media) \$249,411
- 2012 University of California, Davis, GIS Training for Museum Professionals, \$12,000 (with Barry Nickel, CISR Director, UC-Santa Cruz)
- 2012 Island Conservation and Ecology, Internet Mapping Service Software Development, \$27,600 (with Barry Nickel, CISR Director, UC-Santa Cruz)
- 2011 Chancellors Commendation for Mentoring Excellence and Undergraduate Achievement
- 2011 International Training Fellowship. Adapting to a World Without Glaciers: Glacial Lake Hazards and Human Vulnerability in the Himalayas. Award from NSF, USAID/State, International Centre for Integrated Mountain Development (ICIMOD)
- 2011 Elkhorn Slough, Center for Integrated Spatial Research Training Program, \$80,000 (with Barry Nickel, CISR Director, and Christopher Wilmers, UC-Santa Cruz)
- 2011 Santa Clara Central Fire Protection District, GIS Planning and Management, \$14,720 (with Barry Nickel, CISR Director, UC-Santa Cruz)
- 2011 Conservation International, Regional and Ecosystem Vulnerability and Adaptation GIS Tools and Methods \$7,999 (with Barry Nickel, CISR Director, UC-Santa Cruz)
- 2010 Elkhorn Slough (2010-2014), Expanded Center for Integrated Spatial Research Training Program 2015-2018, \$100,000 (with Barry Nickel, CISR Director)
- 2010 National Science Foundation, Coupled Natural and Human Systems, *Collaborative Research: Hydrologic Transformation and Human Resilience to Climate Change in the Peruvian Andes*. DEB #1010550, \$1,013,521 (with Bryan Mark, Ohio State University; Mark Carey, University of Oregon; and Kenneth Young, University of Texas-Austin)
- 2009 International Training Fellowship. Adapting to a World Without Glaciers: Realities, Challenges and Actions. Award from NSF, USAID/State
- 2009 Committee on Research Award, *Climate Change and Governance in the Andes*, UCSC
- 2009 National Science Foundation, Geography and Regional Sciences, *Research Experience for Undergraduates-Climate Change Science and Policy in Peru*
- 2009 Committee on Research Award, Conservation in Costa Rica, UCSC
- 2008 Economic and Social Research Council/Social Sciences Research Council Visiting Scholar Fellow, Manchester University
- 2008 Committee on Research Award, Conservation in Chile, UCSC.
- 2008 NSF, Geography and Regional Sciences, Glacier Recession and Human Vulnerability in Peru. BCS #0752175, \$233,488 (with Bryan Mark, Ohio State University)

- 2008 Committee on Teaching Award, Bringing the Field Into the Classroom, UCSC
- 2008 Division of Social Sciences, Non-tenured Faculty Development Award, UCSC
- 2007 Committee on Research Award, Glacier Recession in the Peruvian Andes, UCSC
- 2007 Division of Social Sciences Honor, Rookie of the Year-Grants Submissions, UCSC
- 2007 Division of Social Sciences Award, Graduate Student Research Assistant Award, UCSC
- 2007 Division of Social Sciences, Faculty Development Award, UCSC
- 2005 United States Fulbright Commission, Fulbright Teaching/Research Award, Peru
- 2005 Presidential Fulbright Award-San Francisco State University
- 2001 AED, National Security Education Program Fellowship
- 2000 NSF, Doctoral Dissertation Research Improvement Grant
- 1996 Graduate Assistantship, University of Colorado, Boulder
- 1993 Graduate Assistantship, The American University
- 1992 Matheson Leadership Scholarship, Hinckley Institute of Politics, University of Utah
- 1992 Sweet Candy Company Scholarship, Honors Program, University of Utah
- 1992 Phi Beta Kappa
- 1988 Honors at Entrance Scholarship, University of Utah

INVITED LECTURES OR COLLOQUIA

- 2015 *New Geographies of Water and Climate Change in Peru: Coupled Natural and Social Transformations in the Santa River Watershed*. Department of Geography, Dartmouth University, April 16, 2015.
- 2014 Climate Change Roundtable Participant. Colleges IX and X Climate Change and Social Justice Symposium. University of California, Santa Cruz, November 5, 2014.
- 2014 *Here There Be Dragons: The Icy Edge of Climate Change in the Andes*. Research Frontiers Conference, Division of Social Sciences, University of California, Santa Cruz. October 24, 2014.
- 2014 *Indigenous Knowledge Systems and Sustainable Development*. Community Agroecology Network, University of California, Santa Cruz, April 29, 2014.
- 2014 *The Icy Edge of Climate Change and Environmental Justice in the Peruvian Andes*. Byrd Polar Center, The Ohio State University, March 7, 2014.
- 2013 *Climate Change, Extractive Industries, and Struggles over Water Resources in the Andes*. Department of Geography and Environmental Sustainability, University of Oklahoma, April 26, 2013.
- 2013 *New Geographies of Water and Climate Change in Peru: Coupled Natural and Social Transformations in the Santa River Watershed*. Presentation for the Foro Internacional Glaciares: Retos de la Investigacion al Servicio de la Sociedad en el Marco del Cambio Climatico. Conference organized by the National Water Authority and Swiss Development Agency, Huaraz, Peru, July 1, 2013.
- 2013 Participant and Discussant. *Multi-Scalar and Cross-Disciplinary Approaches towards Equitable Water Governance*. NSF-Funded Workshop Organized by Flora Lu et al. and sponsored by the Center for Global, International, and Regional Studies (CGIRS) and the Political Ecology Working Group (PEWG), February 21-23, 2013.
- 2013 *Here there be Dragons: Extractive Industries, Climate Change, and New Frontiers of Geography*. Lecture for the Earth as Metaphor lecture series, Art Department, University of California, Santa Cruz, March 6, 2013.

- 2012 *Will the Mining Supercycle be Unbroken? Mineral Operations, Communities, and Environmental Change in Latin America*. Conference on Industrial Resource Extraction & Infrastructure Development in Tropical Forests. Organized by the Yale Environmental Leadership & Training Initiative and Smithsonian Tropical Research Institute. Panama City, Panama, April 27, 2012.
- 2012 *Coupled Natural Systems and the Challenges of Transdisciplinary Research*. Paper presented for the Mountain Research Initiative's Change in the Mountain Cryosphere and the Downstream Implications Workshop, Aeschi, Switzerland, April 19, 2012.
- 2012 *Frack Off: An Illustrated View on Resources Extraction*. Presentation for the 10th Annual Practical Activism Conference, University of California, Santa Cruz. October 20, 2012.
- 2012 Participant and Discussant, *Rethinking Development in Light of Climate Change*. Conference Organized by the Interdisciplinary Development Working Group, University of California, Santa Cruz
- 2012 *Latin America's New Mountains of Mines*. Lecture for the Burning Vision Symposium, Santa Clara University, March 2, 2012.
- 2011 *Climate Change, Human Vulnerability and Resource Conflicts in the Peruvian Andes*. Invited Lecture for the International Training Workshop Adapting to a World Without Glaciers: Glacial Lake Hazards and Human Vulnerability in the Himalayas, Kathmandu. World Bank/USAID/US Dept. of State. September 23, 2011.
- 2011 *Glacial Lake Insecurity and Institutions: A Comparative Analysis of GLOF disasters in Peru and Nepal*. Invited Lecture for the ICIMOD/USAID/US Dept. of State International Conference on Adapting to Glacial Lake Hazards and Human Vulnerability in the Himalayas. Kathmandu, Nepal, September 28, 2011.
- 2010 *From Free to Fair Trade and Beyond*. Lecture Delivered to Education for Sustainable Living Program Colloquium, May 10, 2010. INVITED
- 2010 *Mountains of Mining Migrants: Extractive Industries, Resource Conflicts, and Migration in the Andes*. Invited Presentation for CGIRS lecture series. April 17, 2010. INVITED
- 2010 *Hydraulic Fracking and the Extractive Moment in the United States and Latin America*. Lecture for the Critical Environmental Justice Symposium, Syracuse University, October 2, 2010. INVITED
- 2010 *Geographic Traditions and the Environment-Society Problematique*. Invited Lecture for Geography Symposium, Department of Geography, Clark University, October 8, 2010 INVITED
- 2010 *The Dirty Environmental Truth about Extractive Industries*. Lecture for the Practical Activism Conference, College IX, University of California, Santa Cruz, October 23, 2010 INVITED
- 2010 *Climate Change Research: Politics and Probabilities*. Invited Presentation for the Science and Justice Working Group, University of California, Santa Cruz. October 15, 2010. INVITED
- 2009 *Glacier Recession, Vulnerability and Hydrologic Change in the Peruvian Andes*. Department of Geosciences, University of California, Santa Cruz
- 2009 College VIII Earth Day Festival Keynote Speaker, *Welcome to the 21st Century: How the Grateful Dead and the Lorax Shape Our Future*, University of California, Santa Cruz
- 2009 *The Icy Edge of Climate Change: Glacier Recession and Human Vulnerability in the Andes*. Climate Change and Water in the Andes Symposium. Hemispheric Institute on the Americas, University of California, Davis
- 2009 *The Icy Edge of Climate Change in the Andes*, College VIII Fellows Dinner
- 2009 *Glacier Recession, Hydrological Monitoring and Human Vulnerability in the Cordillera Blanca*, Peru. Paper and Lecture Presented to the World Bank Latin America Division
- 2008 *Climate Change and Human Vulnerability in Peru: Challenges and Prospects for Interdisciplinary Research*. Lecture for the Mountain Research Initiative Meetings, Berkeley, California

- 2008 *The Impacts of Glacier Recession on Communities in the Peruvian Andes*. Lecture for the Peruvian Natural Resources Ministry (INRENA), Lima, Peru
- 2008 *Glacier Recession and Household Livelihoods in the Cordillera Blanca*. Lecture for the College of Engineers, University of Santiago Atunéz de Mayolo (UNASAM), Huaraz, Peru
- 2007 *Glacier Recession and Livelihood Transformations in the Cordillera Blanca, Peru*. Department of Environmental Studies, University of California-Santa Cruz
- 2007 *Glacier Recession in the Peruvian Andes*. University of California, Santa Cruz
- 2003 *The Cocaine Connection: Terrorism, Coca Production and the War on Drugs in South America*. College of Behavioral Sciences: The United States and the World in the 21st Century. San Francisco State University
- 2003 *Geographic Techniques for Evaluating Land Cover and Land Use Change*. GRUFIDES, Environment and Development Society of Cajamarca, Cajamarca, Peru
- 2003 *Mining and Social Impacts: The Watersheds Affected by Minera Yanacocha*. Post-Graduate School, National University of Cajamarca, Cajamarca, Peru
- 2001 *Mining and Livelihoods in the Andes*. Developing Areas Research and Teaching Symposium on Natural Resource Extraction Activities in the Andes, University of Colorado-Boulder
- 2001 *Mineria, Pobreza y Medio Ambiente en Cajamarca* (Mining, Poverty and the Environment in Cajamarca). Post-Graduate School, National University of Cajamarca, Cajamarca, Peru
- 2001 *Democracia y Observadores: El Futuro de Elecciones en el Peru* (Democracy and Election Monitoring in Peru). Transparency International, Cajamarca, Peru
- 2001 *Mineria y Impactos en Sitios Rurales* (Mining and Impacts in Rural Areas). Asamblea de Rondas Campesinas Femeninas del Norte del Peru, Cajamarca, Peru
- 2000 *Metodos y Conceptos para Evaluar Programas de Responsabilidad Social Empresarial* (Methods and Concepts to Evaluate Corporate Social Responsibility) Centro de Investigaciones, Universidad de Pacifico, Lima, Peru

CONFERENCE PAPERS AND PRESENTATIONS

- 2016 *Critical environmental governance II: Struggles over land and resources*. Session Discussant at the Association of American Geographer's Annual Meetings, San Francisco, CA, March 29-April 2, 2016.
- 2015 Mark, B.G., McKenzie, J., Baraer, M., Lagos, P., Lautz, L., Carey, M., Bury, J., Crumly, R., Wigmore, O., Somers, L. *Glacier loss and emerging hydrologic vulnerabilities in the Peruvian Andes* (Invited). Paper Presented at the American Geophysical Union Meetings, San Francisco, CA, December 17, 2015.
- 2014 Mark, B.G., M. Baraer, K.I. Huh, M. Carey, A. French, J. Bury, K. Young, J. McKenzie, A. Eddy, A. Fernandez and Oliver Wigmore. *From glaciers to the desert: Assessing hydrologic change and social vulnerability across a tropical Andean waterscape*. 71st Eastern Snow Conference, Boone, NC, 3-5 June.
- 2014 *Grassroots Environmental Governance: Community Engagement with Industrial Development*. Session Discussant at the Association of American Geographer's Annual Meetings, Tampa Bay, Florida. April 10, 2014.
- 2012 *Climate Change, Human Vulnerability and Resource Conflicts in the Cordillera Blanca*, Paper presented at the IGBP-MRI Workshop Changes in the Mountain Cryosphere and their Downstream Impacts, Zurich, Switzerland. April 17, 2012.
- 2012 *New Institutions and Territorial Dynamics?* Paper presented for the Geographies of Extractive Industries Session at the Association of American Geographer's Annual Meetings, New York City,

- February 26, 2012.
- 2012 *The Paradox of Peruvian Hydraulic Politics: Climate Change and the Political Economy of Coupled Natural and Human Dynamics*. Paper Presented at the Association of American Geographer's Annual Meetings, New York City, February 27, Session Organizer.
- 2012 *Water under a Changing Climate in Peru: Coupled Natural and Social Dynamics*. Session for the Association of American Geographers Annual Meetings, New York City, February 27, 2012. Session Chair.
- 2012 *Double Trouble in the Peruvian Andes? Climate change and the new Peruvian political economy in the Cordillera Blanca, Peru*. Paper presented at the Latin America Studies Association, May 26, 2012.
- 2011 *Climate Change, Human Vulnerability and Resource Conflicts in the Peruvian Andes*. Paper Presented at the Association of American Geographer's Annual Meetings, Seattle, Washington, April 15, 2011, Session Organizer.
- 2011 *Water and Climate Change in Mountain Regions*. Session for the Association of American Geographers Annual Meetings, Seattle, Washington, April 15, 2011, Session Chair
- 2011 *Tactics of Dispossession: Extraction, Accumulation, Control*. Paper Session Discussant. Association of American Geographer's Annual Meetings, Seattle, Washington, April 12, 2011
- 2009 *Livelihoods, Glacier Recession and Resource Conflicts in the Cordillera Blanca, Peru*. Paper Presented at the Conference of Latin Americanist Geographers Meetings, Granada, Nicaragua, January, 2009
- 2009 *Glacier Recession, Livelihood Vulnerability and New Resource Conflicts in the Peruvian Andes*. Paper Presented at the National Association of American Geographers Annual Meeting, Las Vegas, NV, March, 2009. Session Chair and Co-Organizer.
- 2009 *Climate Change: A New Clarion Call for Development?* Paper and Panel Presentation for the National Association of American Geographers Annual Meeting, Las Vegas, NV, March, 2009. Session Chair and Co-Organizer.
- 2008 *Adapting to Uncertain Futures: Glacier Recession and Human Vulnerability in the Peruvian Andes*. Paper Presented at the American Geophysical Union Meetings, San Francisco, CA, December, 2008.
- 2008 *Mountain Glacier Changes (I & II)*. Paper Sessions Co-organizer (with Bryan Mark) and Chair. American Geophysical Union Meetings, San Francisco, CA, December, 2008.
- 2008 M. Baraer, J.M. McKenzie, B.G. Mark and J. Bury. *Climate change related evolution of water resources in the Cordillera Blanca, Peru*. EGU Topical Conference Series, 4th Alexander von Humboldt International Conference: The Andes: Challenge for Geosciences. Santiago de Chile, Chile, 24 – 28 November 2008.
- 2008 *Glaciers in Changing Mountain Environments: Processes and Impacts*. Panel Discussant at the National Association of American Geographers Annual Meeting, Boston, MA, April 2008, Panel Co-Organizer.
- 2008 *Rocks, Rangers and Resistance: Mining and Conservation in the Cordillera Huayhuash, Peru*. Paper Presented at the National Association of American Geographers Annual Meeting, Boston, MA, April 2008, Panel Co-Organizer.
- 2007 *Glacier Recession and Livelihood Vulnerability in Peru*. Paper presented at the New World Agriculture and Ecology Group, Santa Cruz, CA. August, 2007.
- 2007 *New Debates on an Old Theme: Mining and Communities in the Andes*. Paper Presented at the National Association of American Geographers Annual Meeting, San Francisco, Ca, April 2007
- 2007 *Glacier Recession and Livelihoods in the Cordillera Blanca*. Paper Presented at the National

- Association of American Geographers Annual Meeting, San Francisco, CA, April 2007. Panel Organizer.
- 2006 *Conservation, Livelihoods and Landscape Change in the Cordillera Huayhuash, Peru*. Paper Presented at the National Association of American Geographers Annual Meeting, Chicago, Ill., March 2006. Paper Sessions Co-Organizer.
- 2006 *New Geographies of Livelihoods*. Paper Presented at the National Association of American Geographers Annual Meeting, Chicago, Ill., March 2006. Panel Organizer.
- 2005 *Mining and Migration in the Peruvian Andes*. Paper Presented at the National Association of American Geographers Annual Meeting, Denver, Colorado. April, 2005.
- 2005 *Development Initiatives and Impacts: Mineral Extraction and Livelihoods in the Andes*. Panel Presentation at the International Development Studies Conference, Boulder, Colorado, April 2005.
- 2004 *Livelihoods in Transition: Transnational Mining, Social Capital and the Environment in the Peruvian Andes*. Paper Presented at the National Association of American Geographers Annual Meeting, March 2004.
- 2003 *Mining Mountains: Neoliberalism, Development and the New Peruvian Mining Industry*. Paper Presented at the National Association of American Geographers Annual Meeting, March, 2003.
- 2002 *Socially Responsible Mining and Community Bargaining Strategies in Yanacocha, Cajamarca, Peru*. Paper Presented at the Latin American Studies Association Meetings, September, 2002. Panel Co-organizer.
- 2001 *When Poverty Attacks: The Root Causes of Peasant Protests in the Peruvian Andes*. Paper Presented at the National Association of American Geographers Annual Meeting, March, 2001.
- 2000 *The Limits to Social Responsibility*. Paper Presented at the Latin American Studies Association Meeting. March, 2000
- 2000 *Green Gold? Corporate Environmentalism and Sustainable Livelihoods in the Peruvian Andes*. Paper Presented at the Latin American Studies Association Meeting. March, 2000.
- 2000 *Beggars on a Golden Bench: International Gold Mining Operations and Changing Social Capital in the Peruvian Andes*. Paper Presented at the National Association of American Geographers Annual Meeting, March, 2000.
- 1999 *Sustainable Development and the Impacts of Transnational Gold Mining Operations in the Peruvian Andes*. Paper Presented at the Great Plains/Rocky Mountain Regional Association of American Geographers Meeting. September 25, 1999.
- 1999 *Political Ecology in Geography*. Paper Presented at the Society for Applied Anthropology Meetings. April 24, 1999.

MEMBERSHIP AND ACTIVITIES IN PROFESSIONAL ORGANIZATIONS

- 2009 International Science Advisory Committee, The Mountain Institute
- 2009 Vice Chair, Developing Areas Specialty Group, Association of American Geographers
- 2008 Science Advisory Committee, Organization for Tropical Studies
- 2008 Chair, Conference Program Committee, Developing Areas Specialty Group, Association of American Geographers, Clark University.
- 2007 Director, Developing Areas Specialty Group, Association of American Geographers
- 2007 Member, American Geophysical Union
- 2007 Member, Program Committee and Local Arrangements Committee, Association of American Geographers, Annual Meeting in San Francisco, CA.,

- 2007 Chair, Logistics and Local Planning Committee, Developing Areas Specialty Group Conference, Association of American Geographers, Berkeley, CA.
- 2005 Member, Society for Applied Anthropology
- 1997 Association of American Geographers
- 1997 Latin American Studies Association
- 1997 Conference of Latin Americanist Geographers

INVITED REVIEWS FOR SCHOLARLY JOURNALS¹

*Annals of the Association of American Geographers**, *Proceedings of the National Academy of Sciences*, *The Professional Geographer**, *The Geographic Journal**, *Geoforum**, *Political Geography**, *Antipode**, *Geographic Review*, *Human Ecology**, *Human Organization**, *Tourism Geographies*, *Environment and Development*, *Conservation and Society*, *Ecological Economics**, *Ecological Engineering*, *Natural Resources Forum**, *Development and Change*, *Water International*, *World Development*

INVITED REVIEWS FOR ACADEMIC AND OTHER PUBLICATIONS

Inergovernmental Panel on Climate Change-AR5 Report, Routledge*, Sage Publications*, Prentice Hall*, Wiley, McGraw Hill, Brooks/Cole, Oxford University Press, Polity Press

INVITED REVIEWS FOR RESEARCH FOUNDATIONS

World Bank, Latin American Division, Climate Change in Peru; Flemish Interuniversity Council-University Cooperation for Development (VLIR-UOS), Belgium; National Science Foundation, Geospatial Sciences*; Swiss National Science Foundation; First Grants Competition, Economic and Social Research Council (ESRC); National Geographic Research Foundation; National Science Foundation, CAREER

UNIVERSITY ADVISING AND INSTRUCTION

Post-Doctoral and PhD Supervision

- Jennifer Lovell (Current), Feminist political ecology and development in Thailand.
- Jeffrey Jenkins (Current), Extractive Industries, GIS, political economy
- David Wrathall. PhD, Geography, 2011, King's College London. Climate Change, Hazards, Complex Social and Ecological Systems, Central America and the Andes. Currently Associate Academic Officer, United Nations University, Bonn.
- Timothy Norris, 2014. *The New Peruvian Experiment: Private Conservation, Tourism, and Mining in the Cordillera Huayhuash*. Awarded NSF Five Year Graduate Research Fellowship in Geography and National Geographic Explorer's Grant. Currently a Postdoctoral Fellow in Data Curation for the Sciences and Social Sciences, University of Miami.
- Adam French, 2013. *Water is Life: Climate Change, Globalization, and Adaptive Resource Governance in Peru's Santa River Watershed*. Awarded Fulbright-Hayes Fellowship, Inter-American Foundation Fellowship, Chancellors Dissertation Award, and USAID Climber Scientist Research Award. Currently Ciriacy-Wantrup Post-Doctoral Researcher, University of California, Berkeley.

¹ *Asterisk indicates multiple activities

- Jorge Torres (w/Greg Gilbert) Biological corridors, private conservation and reforestation in Costa Rica. Awarded UCSC Five Year Cota Robles Diversity Graduate Fellowship.
- Ana Spalding, 2011, *Re-Making Lives Abroad: Lifestyle Migration and Socio-Environmental Change in Bocas del Toro, Panama*. Awarded Panamanian Government Graduate Studies Award (5 years), 2005.

PhD Advising

- Costanza Rampini (Current). Climate change and science. Awarded EPA STAR award.
- Alicia Calle (Current). Conservation and restoration in Colombia.
- Paulo Quadri (Current). Climate change and urban planning in Mexico. Awarded a UC/Mexus Fellowship.
- Barry Nickel (Current). GIS and wildlife. Currently Director, Center for Integrated Spatial Research (CISR), University of California, Santa Cruz.
- Juan Prieto (Current). Extractive industries in the Andes, Department of Politics, University of California, Santa Cruz.
- Micha Rahder (2012). Conservation and GIS in Guatemala (Reader).
- Nick Babin (2012) Fair Trade, Agroecology, Costa Rica.
- Sean Gillon (2011) Ethanol, Agriculture, Governance and Political Ecology in Iowa . Currently a Post-Doctoral Scholar the University of Madison-Wisconsin.
- Irmgard Bauer (2010). Examiner. Curtin University of Technology, Faculty of Health Sciences. Dissertation: *Towards Assessing the Impact of Health in Developing Countries: Exploring Peruvian Villagers' Concepts of Prerequisites for Good Community Health*. Perth, Australia.
- Rebecca Cole (2008). Dissertation: *Ecological and Socioeconomic Aspects of Restoring Forest in a Tropical Agricultural Landscape, Southern Costa Rica*. Currently a Post-doc at the University of Hawaii, Manoa.
- Michelle Olsgard (2008). *Cordyceps Sinensis* and Livelihood Transformations in Tibet, Currently Phd student at The University of Colorado, Boulder, Geography
- Diana Stuart (2009). Dissertation: *A New Wave of Environmental Degradation in California Agriculture: Private Standards, Constrained Choice, and Changes in Land Management*. Currently an Assistant Professor at the University of Michigan.
- Brian Peterson (2010). Dissertation: *Responding to New Land Management Challenges: Bark Beetle Outbreaks in Western North America*.
- Nick Babin (2012) Fair Trade, Agroecology, Costa Rica.
- Sean Gillon (2011) Ethanol, Agriculture, Governance and Political Ecology in Iowa
- Carlo Moreno (Current). Agroecology, Sustainable development, Political Ecology, Venezuela
- Daniella Schweizer (Current). Ecological Restoration, Political Ecology, Panama

Masters

- David Collins (2003) Aztec Trading Systems, Cartography, Latin America
- Suzanne Poloner Holguin (2005) Antillean Manatee Conservation in Belize

Graduate Course Instruction (Course Titles)

Human Geography Seminar, Qualitative Field Methods, Contemporary Environment-Society Studies, Readings and Debates in Political Ecology, Advanced Research in Environmental Studies

Undergraduate Courses Instruction

American National Government, Ecology and Society, Environmental Problems and Solutions, Environment and Development in Latin America, Future Environments, Geographic Information Sciences (GIS/Remote Sensing), GIS Applications in Natural Resource Conservation (English and Spanish), Geographies of Global Change, Geography of International Development, International Relations Theory,

Latin American Geography and Development, Natural Resources and the Economy (English and Spanish), Political Geography, Sustainable Development, World Regions