

CURRICULUM VITAE

NAME Melinda Jean Laituri

ADDRESS Department of Ecosystem Science and Sustainability

EDUCATION

- 1993 Ph.D., University of Arizona.
- 1985 M.A., California State University, Chico.
- 1979 B.A., University of California, Berkeley.

ACADEMIC POSITIONS

- 2021 - Professor Emeritus, Colorado State University
- 2012 – 2020 Professor, Geography, Colorado State University
- 2001 - 2011 Associate Professor, Geography, Colorado State University
- 1995 - 2000 Assistant Professor, Geography, Colorado State University
- 1994 - 1995 Lecturer, Geography, University of Auckland, New Zealand
- 1993 - 1994 Post-doctoral Research Fellow, Geography, University of Auckland, New Zealand

SABBATICALS

- 2018, Principle Investigator, Secondary Cities Initiative, US Department of State
- 2011, 2018 Rachel Carson Fellow, Rachel Carson Center and Ludwig Maximilians University, Munich, Germany
- 2010 - 2011, Fulbright Scholar, University of Botswana, Center for Scientific Research, Indigenous Knowledge and Innovation (CesrIKI).
- 2002, Spring Semester
 - Invited Visiting Scholar, Linköping University, Sweden
 - Invited Visiting Scholar, University of Auckland, New Zealand

OTHER POSITIONS

- 2020 - Principle Investigator, Cities' COVID Mapping and Mitigation Program, US Department of State
- 2019 - present Joint Faculty, University Libraries
- 2015 – 2019 Principle Investigator, Secondary Cities Initiative, US Department of State.
- 2015 – 2016; 2020 – 2021 Research Associate, Center for Geographic Analysis, Harvard University.
- 2014 – present Leadership Committee, Center for Environmental Justice, CSU.
- 2009 - present Director, Geospatial Centroid at CSU, Colorado State University.
- 2006 - 2008 Associate Dean of Academic Affairs, Warner College of Natural Resources, CSU.
- 2005 - 2006 Program Officer, Geography and Regional Sciences, National Science Foundation.

HONORS AND AWARDS

- 2019 CSU Water Fellow
- 2015 - 2018 Visiting Scholar, Center for Geographic Analysis, Harvard University
- 2014 - 2015 Jefferson Science Fellow; US Department of State Office of the Geographer and Global Issues, Humanitarian Information Unit, Washington, DC
- 2010 - 2011 Fulbright Scholar, Center for Scientific Research, Indigenous Knowledge and Innovation (CesrIKI), University of Botswana
- 2011, 2018 Rachel Carson Fellow, Munich, Germany
- 2009 American Association of Geographers Visiting Scientist, University of Nebraska
- 2008 Distinguished Teacher and Advisor Award, Warner College of Natural Resources
- 2005 J. William Fulbright Foreign Scholarship Board, Certificate of Recognition, Fulbright Senior Specialists Program, Department of State, Washington, D.C.
- 2004-2005 Office of International Programs, CSU, Certificate of Appreciation, CSU

Melinda Laituri

- 2004 Fulbright Senior Scholar, PE Technikon, Port Elizabeth, South Africa
- 2000 - 2001 Fulbright-Hays India Group Studies Abroad Project

PUBLISHED WORKS

Edited books:

Laituri, M., S. Ryder, K Powlen, S. Malin, J. Sbicca, D. Stevis, eds. *EJ in the Anthropocene: From (Un)Just Presents to Just Futures*. Taylor and Francis Group. *Publication June 2021*.

Manuscripts in review:

Laituri, M., R. Richardson, L. Cline, S. Viscuso, L. Schwartz. COVID-19's Second-Order Impacts on Global Vulnerable Areas. *Annals of GIS – Special Issue*. *Submitted Dec 2020*.

Refereed Journal Articles:

Laituri, M. 2021. Mapping spatial justice for marginal populations. *Geographic Information Science & Technology Body of Knowledge (GIS&T BoK - <https://gistbok.ucgis.org/bok-topics/mapping-spatial-justice-marginal-societies>)*

Laituri, MJ. The hydrosocial cycle in rapidly urbanizing watersheds. 2020. *Frontiers of Earth Science – Special Issue: Multidisciplinary Methods*.14: 256-267.

Davis, D., Diadin, D., Shores, A., Khandogina, O., Laituri, M. 2020. Capacity of Urban Springs to Support Emergency Water Needs, A Secondary City Case Study: Kharkiv, Ukraine. *Urban Water Journal*. 17(4) 368-376.

Tumenjargal, S., S.R. Fassnacht, N.B.H. Venable, A.P. Kingston, M.E. Fernández-Giménez, B. Batbuyan, M.J. Laituri, M. Kappas, and G. Adyabadam, 2020. Variability and Change of Climate Extremes from Indigenous Herder Knowledge and at Meteorological Stations across Central Mongolia. *Frontiers of Earth Science*, 14(2) 286-297.

Shores, A., H. Johnson, D. Fugate, M. 2019 Laituri. Networks of Need: A geospatial analysis of secondary cities. *Special Edition: Applied Network Science – Complexity and the City*. *Applied Network Science* 4(1), 109. doi:10.1007/s41109-019-0229-x

Herman-Mercer, N., M. Laituri, M. Massey, E. Matkin, R. Toohey, K. Elder, E. Mutter. (2019) Vulnerability of Subsistence Systems due to Social and Environmental Change: A case study in the Yukon-Kuskokwim Delta, Alaska. *Arctic* 72(3): Sept:215-335.

Chignell, S., M. Laituri, N. Young, P. Evangelista. Afroalpine wetlands of the Bale Mountains, Ethiopia: distribution, dynamics, and conceptual flow model. (2019) *Annals of the American Association of Geographers*, Vol 109, Issue 3, pp. 791 – 811.

Shores, A., Laituri, M. (2018). The state of produced-water generation and risk for groundwater contamination in Weld County, Colorado. *Environ Sci Pollut Res Int, Oct, Vol 25, Issue 30, pp30390-30400*.

Levick, L., S. Hammer, R. Lyon, J. Murray, A. Birtwistle, P. Guertin, D. Goodrich, B. Bledsoe, M. Laituri. (2018) An Ecohydrological Stream Type Classification of Intermittent and Ephemeral Streams in the Southwestern United States. *Journal of Arid Environments*, 155:16-35.

Fassnacht, S., A. Allegretti, N. Venable, M. Fernandez-Gimenez, S. Tumenjargal, M. Kappas, M. Laituri, B. Batbuyan, A. Pfohl. (2018) Merging indigenous knowledge systems and station observations to estimate the uncertainty of precipitation change in central Mongolia. *Hydrology* 5(46).

- Shores, A., Hethcock, B., Laituri, M. (2018). Phytoremediation of BTEX and naphthalene from producedwater spill sites using Poaceae. *Int J of Phytoremediation*, 20(8), 823–830.
- Kebirungi H, LS Luboobi, Kabonesa C, Kimwaga RJ, Majaliwa JGM, Laituri M. (2018) Gender Responsiveness of Provisioning and Management of Water and Sanitation Facilities in East African Universities. *International Journal of Gender and Women's Studies*, Vol. 6, No. 1, pp. 121-132
- Boone, K., M. Laituri, R. Waskom. (2017) Accessing Flexibility: A Historical Institutional Analysis of Water Use for Oil and Gas Development in Colorado. *Journal of Society and Natural Resources*, 31(6):717-733. <https://doi.org/10.1080/08941920.2017.1423434>
- Shores, A., Laituri, M., Butters, G. (2017). Produced-water surface spills and the risk for BTEX-and-naphthalene groundwater contamination. *Water, Air and Soil Pollution* 228:435, 1-14.
- Hoover, J., S. Kumar, S. James, S. Leisz, M. Laituri. (2017) Modeling hotspots of plant diversity in New Guinea. *Tropical Ecology* 58(3): 623-640.
- Kebirungi Harriet, Luboobi S. Livingstone, Kabonesa Consolata, Kimwaga Richard Joseph, Majaliwa Jackson-Gilbert Mwanjalolo, Laituri Melinda. Gender Differences and Deficiencies of Water and Sanitation Facilities Provisioning and Management in East African Universities. *International Journal of Gender and Women's Studies*. Dec 2017, Vol 5, No. 2, pp 1-6.
- Hoover, J., S. Leisz, M. Laituri, Comparing and combining Landsat Satellite Imagery and Participatory Data to Access Land-Use and Land-Cover Changes in a Coastal Village in Papua New Guinea. 2017. *Human Ecology*, 45:251-264 , DOI 10.1007/s10745-016-9878-x.
- Herman-Mercer, N. M., E. Matkin, M. J. Laituri, R. C. Toohey, M. Massey, K. Elder, P. F. Schuster, and E. A. Mutter. 2016. Changing times, changing stories: generational differences in climate change perspectives from four remote indigenous communities in Subarctic Alaska. *Ecology and Society* 21(3):28.<http://dx.doi.org/10.5751/ES-08463-210328>.
- Birtwistle, A., M. Laituri, J. Friedman, B. Bledsoe. Using plants as rain gauges in semi-arid landscapes. *Journal of Arid Environments*. August 2016. *Journal of Arid Environments* Volume 131, Pp. 15-24.
- Sidder, A., Sunil Kumar, Melinda Laituri, Jason Sibold. Using spatiotemporal correlative niche models for evaluating the effects of climate change on mountain pine beetle. July 2016. *Ecosphere*, Vol 7, Issue 7:e01396. DOI: 10.1002.ecs2.1396.
- Tewodros Wakie, Dana Hoag, Paul Evangelista, Matt Luizza and Melinda Laituri (2016) Is control through utilization a cost-effective *Prosopis juliflora* management strategy? *Journal of Environmental Management*, 168: 74-86, doi:10.1016/j.jenvman.2015.11.054.
- Tewodros Wakie, Paul Evangelista and Melinda Laituri (2016) Assessing the distribution and impacts of *Prosopis juliflora* through participatory approaches. *Applied Geography*, 66: 132-143, doi:10.1016/j.apgeog.2015.11.017.
- Sternleib, F. and M. Laituri. Spatialising agricultural water governance in polycentric regimes. *Water Alternatives* 8(2): 35-56.

West, A., Sunil Kumar, Tewodros Wakie, Cynthia Brown, Thomas Stohlgren, Melinda Laituri and Jim Bromberg (2015) Using high-resolution future climate scenarios to forecast *Bromus tectorum* invasion in National Parks. PLOS ONE, doi:10.1371/journal.pone.0117893.

Stephen M. Chignell, Ryan S. Anderson, Paul H. Evangelista, Melinda J. Laituri and David M. Merritt. Multi-Temporal Independent Component Analysis and Landsat 8 for Delineating Maximum Extent of the 2013 Colorado Front Range Flood. *Remote Sensing* 2015 7(8) 9822-9843. doi:10.3390/rs70809822

Arren Mendezona Allegretti, Jessica Thompson, Melinda Laituri. Engagement and accountability in transdisciplinary space in Mongolia: principles for facilitating a reflective adaptive process in complex teams. *Knowledge Management for Development Journal*, Vol 11, No 2 (2015), 23 – 43.

Sternlieb, F. and M. Laituri. 2015. Spatialising agricultural water governance regimes *Water Alternatives* 8(2): 36-56.

Tewodros T. Wakie, Paul H. Evangelista, Catherine S. Jarnevich and Melinda Laituri (2014) Mapping current and potential distribution of non-native *Prosopis juliflora* in the Afar region of Ethiopia. PLOS ONE, doi:10.1371/journal.pone.0112854.

Laituri, M. and Sternlieb, F., editors. 2014. Water data systems: Science, practice, and policy. *Journal of Contemporary Water Research and Education – University Council on Water Resources*. Special Issue 153. <http://www.ucowr.org/journal-of-contemporary-water-research-and-education>

Hoover, J., Doeskan, N., Elder, K., Laituri, M., Liston, G. 2014. Temporal trend analysis of alpine data using North American regional reanalysis and in situ data: Temperature, wind speed, precipitation, and derived blowing snow. *Journal of Applied Meteorology & Climatology*, Vol 53, Issue 3, p676.

M. Lineal and M. Laituri. 2013. Community-based integrated fire management planning: Linking Ecology and society in Honduras. *Community Development Journal*. Vol 48(1): 58-74.

J. Titus, P. Titus, M. Laituri, and B. Sethebe. 2012. Population structure of an arborescent aloe (*Aloe marlothii*) in Botswana. *African Journal of Plant Science* Vol. 6(13), pp. 328-336, October.

M. Laituri and F. Sternlieb. 2012. Mapping Institutional Landscapes: Global Efforts to Improve Access to Water. *International Journal of Sustainable Development and Planning*. Vol 7, Issue 3, pp. 273-287.

E. Tyson Cross, P. Evangelista, M. Laituri, P. Newman. 2011-2012. Creating exploratory maps for wilderness impact surveys: applications in campsite searches. *Park Science* 28(3):84-88.

Wade, A., Theobald, D., Laituri, M. A multi-scale assessment of local and contextual threats to existing and potential US protected areas. *Landscape and Urban Planning*, Vol. 101, Issue 2, June 2011, pp.215-227. http://science.nature.nps.gov/im/monitor/lulc/palms/docs/pubs/WadeA_etal_2011_multi-scale_assmnt_threats_US_protected_areas.pdf

Bao, T. and Laituri, M. 2011. Defining required forest area for protection soil from erosion in Vietnam: a GIS-based application. *VNU Journal of Science, Earth Sciences* 27: 63-76. http://js.vnu.edu.vn/khtd_2_11/1.pdf

Newman, G., Graham, J., Crall, and Laituri, M. 2011. The art and science of multi-citizen science support. *Ecological Informatics*, 6(3-4), July: 217-227. <http://www.sciencedirect.com/science/article/pii/S157495411100029X>

Bao, T. and Laituri, M. 2011. Effect of mangrove forest structure on sea wave attenuation in Vietnam. *Journal of Science and Development*. 9(1):55-62. http://www.hua.edu.vn/tc_khktnm/Upload%5C1462011-

[Bai%20Eng.%20%28ban%20in%2055%20-%2062%29%20sua.pdf](#)

Kodrich, K. and Laituri, M. 2011. Making a Connection: Social Media's Key Role in the Haiti Earthquake. *Journal of Communication & Computer*. Vol. 8, No. 8. In press.

Newman, G., Zimmerman, D. E., Crall A., Laituri, M., Graham, J., and Stapel, L. 2010. User friendly web mapping: Lessons from a citizen science website. *International Journal of Geographical Information Science* 24:1851-1869. <http://www.ingentaconnect.com/content/tandf/tgis/2010/00000024/00000012/art00005>

Newman, G., Crall A., Laituri, M., Graham, J., Stohlgren, T. J., Moore, J. C., Kodrich, K. and Holfelder, K. 2010. Teaching citizen science skills online: Implications for invasive species training programs. *Applied Environmental Education and Communication*. Vol . 9, No. 4, 276-286. <http://docserver.ingentaconnect.com/deliver/connect/routledg/1533015x/v9n4/s8.pdf?expires=1315607341&id=64325082&titleid=5032&accname=Colorado+State+University&checksum=8F534DD2A8E7AD3BFA6C607B58C69D31>

Sternlieb, F., Laituri, M. WaSH Indicators: measuring hydro-philanthropic quality. *Journal of Contemporary Water Research and Education*, Issue 145; August 2010. Pp 51-60. <http://www.ucowr.siu.edu/updates/145/6.pdf>

M. Laituri, Sternlieb, F., Waskom, R. A call to action: proposing a university consortium for water, sanitation and hygiene (WaSH), *Journal of Contemporary Water Research and Education*, Issue 145; August 2010. Pp . 74-80. <http://www.ucowr.siu.edu/updates/145/9.pdf>

Sternlieb, F., Laituri, M. (2009). Tracking political climate change: US policy and the human right to water. *Water Resources Management, Ecology and Environment* 125. p 579-590.

Sherrill, K., Laituri, M., Helmer, E., Ramirez, J., Blanco, J., Hein, K, and Pike, A. 2008. Road and stream connectivity and potential: northeastern Puerto Rico, an exploratory analysis. *Hydrology and Earth System Sciences Discussions*, 5, 1731-1763. <http://www.hydrol-earth-syst-sci-discuss.net/5/1731/2008/hessd-5-1731-2008.pdf>

Laituri, M. and Kodrich, K. 2008. On line disaster response community: people as sensors of high magnitude disaster using internet GIS. *Sensors*, 8, 3037-3055. <http://www.mdpi.org/sensors/papers/s8053037.pdf>

Weinbaum, K., Nzooh, Z., Usongo.L., Laituri, M. 2007. Preliminary survey of forest elephant crossings in Sangha Trinational Park, central Africa. *Pachyderm*, 43:52-62. <http://www.iucn.org/THEMES/SSC/sgs/AfESG/pachy/pdfs/pachy43.pdf#page=57>

Alessa, L., Laituri, M., and Barton, M. 2006. An "All Hands" call to the social science community: establishing a community framework for complexity modeling using agent based models and cyberinfrastructure. *Journal of Artificial Societies and Social Simulation*, 9(4) 6 pages. <http://jasss.soc.surrey.ac.uk/9/4/6.html>

Kodrich, K. and Laituri, M., 2006. The tsunami and the internet: the role of new media technologies in disaster awareness and relief. *International Journal of Technology, Knowledge and Society*, 1(3):53-62.

Kodrich, K. and Laituri, M. 2005. The formation of a disaster community in cyberspace: the role of the online news media after the 2001 Gujarat earthquake. *Convergence*, 11(3): 40-56.

Flanagan, C. and Laituri, M. 2004. Local cultural knowledge and water resource management: the Wind River Indian Reservation, *Environmental Management*, 33(2): 262-270.

Laituri, M. 2003. The issue of access: an assessment guide for evaluating public participation geographic information science case studies, *Journal of the Urban and Regional Information Systems Association*, 15, APA II:25 - 31. <http://www.urisa.org/files/Laiturivoll15apa2-3.pdf>

Michaels, S. and Laituri, M. 1999. Exogenous and indigenous influences on sustainable management, *Sustainable Development*, 7(2), pp. 77-86.

Watkins R., Cocklin, C., and Laituri, M. 1997. The development of geographic information systems for sustainable resource management, *Journal of Environmental Planning and Management*, 40(1), pp. 37-57.

Kearns, R., Arnold, G., Laituri, M., and LeHeron, R. 1996. Exploring the politics of authorship in geographical scholarship, *Area*, 28(3): 414-20.

Laituri, M. 1996. Cross-cultural dynamics in the eco-city: Waitakere City, New Zealand, *Cities*, 13(5): 179-87.

Laituri, M. and Kirby, A. 1994. Finding fairness in America's cities, *The Journal of Social Issues*, 50(3): 121-39.

Kirby, A. and Laituri, M. 1991. The closing of the American mind – or just closing the ranks?, *Journal of Geography in Higher Education*, 15(2): 221-28.

Refereed Chapters in Books:

Laituri, MJ. Colorado headwaters and water security in the Anthropocene. 2020. In *The Rocky Mountain West: A compendium of geographic perspectives*. American Association of Geographers: Washington DC. Pp. 85-93.

Ahmad, K and M. Laituri. 2017. Use of GIS in Environmental Science. Oxford Bibliographies. DOI: 10.1093/OBO/9780199363445-0081.

Chignell, S. and Laituri M. Chapter 13: Telecoupling, urbanization and the unintended consequences of water development aid in Ethiopia. In Wessel, GR and Greenberg, JK, eds., *Geosciences for the Public Good and Global Development: Toward a Sustainable Future*. 2016. Geological Society of America Special Paper 520. Pp 125 -135.

Hochstetler, K and Laituri, M. 2014. Chapter 4: Methods in International Environmental Politics. In *Advances in International Environmental Politics*, 2nd ed; ed. M. Betsill, K. Hochstetler, and D. Stevis. Hampshire, UK: Palgrave MacMillan. Publication. pp. 78 – 106.

Laituri, M. 2014. 43: Water Deficits, In *Global Environmental Change*, Bill Freedman (ed). Springer Press. Pp 363-367. <http://www.springerreference.com/docs/html/chapterdbid/300097.html>

Laituri, M. and Thompson, J. Chapter 2: Situational geography, case studies and cross-cultural collaborative studies. (2012) In *Restoring Community Connections to the Land: Building Resilience through Community-based Rangeland Management in China and Mongolia*, M. Fernandez-Gimenez, R. Reid, J. Klein, eds. Center for Agricultural Bioscience International (CABI) Publishing, Oxford, UK.

Invited, peer-reviewed chapter: Laituri, M. Chapter 11: GIS and Indigenous Knowledge. (2011) In *The SAGE Handbook of GIS and Society*, T. Nyerges, H. Coucleis, and R. McMaster, eds. Sage Publications, Ltd. Pp. 202-221

Hochstetler, K. and Laituri, M. 2006. Methods in international environmental politics. In *International Environmental Politics*, M. Betsill, K. Hochstetler, and D. Stevis, eds. Hampshire, UK: Palgrave MacMillan, pp. 82-109.

Laituri, M. 2002, Equity and access to GIS for marginal communities. In *Community Empowerment, Public Participation and Geographic Information Science*, W. Craig, T. Howard, and D. Weiner, eds. Taylor and Francis, London, pp. 270 – 282.

Laituri, M. 2000. Cultural perspectives of floods. In *Inland Flood Hazards: Human, Riparian and Aquatic Communities*, E. Wohl, ed. Cambridge University Press, pp. 451-68.

Laituri, M. and Harvey, L.E. 1995. Bridging the space between indigenous ecological knowledge and New Zealand conservation management using GIS, In: *Nature Conservation: The Role of Networks*, D. Saunders, J. Craig, and E. Matiske, eds. Surrey Beatty and Sons, New South Wales. pp. 122-31.

Refereed Proceedings/Transactions:

Melinda J. Laituri, Sophia Linn, Steven R. Fassnacht, Niah Venable, Khishigbayar Jamiyansharav, Tungalag Ulambayar, Arren Mendezona Allegretti, Robin Reid, Maria Fernandez-Gimenez. 2015. The MOR2 Database: Building integrated datasets for social-ecological analysis across cultures and disciplines. In Fernandez-Gimenez ME, Batkhisig B, Fassnacht SR, Wilson D, eds. *Proceedings of Building Resilience of Mongolian Rangelands: A Trans-disciplinary Research Conference*, Ulaanbaatar Mongolia, June 9-10, 2015, [MONGOLIAN p227-234] [ENGLISH p209-215]

Fassnacht, S.R., T. Sukh, M. Fernandez-Gimenez, B. Batbuyan, N.B.H. Venable, M. Laituri and G. Adyabadam, 2011. Local understanding of hydro-climatic changes in Mongolia. *Cold Region Hydrology in a Changing Climate* (Proceedings of symposium H02 held during IUGG2011 in Melbourne, Australia, July 2011), IAHS, **346**, 120-129.

Dunbar, P., Bilham, R., and Laituri, M. 2003. Earthquake loss estimation for India based on macroeconomic indicators, In International Union of Geodesy and Geophysics (IUGG) Georisk Proceedings, NATO Science Series, Kluwer, Dordrecht, pp. 149-162.

M. Laituri, 1998, Marginal societies and geographic information systems, In: NCGIA Varenus Project, Public Participation GIS Special Meeting, 6pages.
<http://www.ncgia.ucsb.edu/varenus/ppgis/papers/laituri.html>

Other:

N. Molder and M. Laituri. 2019 The hydro-social cycle of an extreme city: Tijuana, Mexico. *Colorado Water* 37(1), pp11 - 14.

M. Laituri and S. Malin, eds. 2019. Stories of Water Equity and Environmental Justice, *Colorado Water*, 36(1),

M. Laituri 2019. A case of Spatial (In)Justice: The Dakota Access Pipeline, *Colorado Water*, 36(1), pp11 - 13.

M.Laituri. 2019. Mapping Extreme Cities: The quest for effective water data. *Colorado Water* 36(2), pg 9 - 11.

Boone, K. and Laituri, M. 2014. Where are we now? Socio-ecological risks and community responses to oil and gas development in Colorado. *Colorado Water Center* #26. <http://www.cwi.colostate.edu/publications/SR/26.pdf>

Laituri, M. 2011. SBE 2020: NSF Grand Challenges: Understanding slow onset disasters in the age of climate change, http://www.nsf.gov/sbe/sbe_2020/submission_detail.cfm?upld_id=47

M. Laituri and F. Sternlieb. 2012. Mapping irrigated agriculture in the CRB, Nov/Dec vol 29, No 6,pp 5-7.

F. Sternlieb and M. Laituri. 2012. Mapping Ag Water Governance in the CRB, Nov/Dec Vol 29, No 6,pp 8-10.

M. Laituri. 2010. Invited: Geospatial Responses to Disasters: The Role of Cyberspace. *ArcNews*. Summer. Pp 1, 5- 7. <http://www.esri.com/news/arcnews/summer10articles/geospatial-responses.html>

M. Laituri and F. Sternlieb. (2010) Geography of Water Resources: Comparing International and Colorado River Basins. *Colorado Water*. 27:3, 18-25.

J. Murray, M. Laituri. (2009) Domestic rainwater harvesting in Ethiopia and Kenya, Africa. *Colorado Water*. March/April 26:2, p. . 28 - 31

M. Laituri, K. Kodrich. (2009) Internet GIS and on line disaster response. *Colorado Water*. July/August 26:4, p. 16 - 17.

Laituri, M. 2005. "Biosphere," "Resource, renewable; non renewable;" "Seasons." Robert W. McColl, ed., *Encyclopedia of World Geography*. Golson Books: New York. 3 pages.

Laituri, M. 2001. The power of maps, *River Voices*, 12(1), pp. 1, 4-5.

Gibson, L. and Laituri, M. 2008. Scott's Bluff National Park, Assessment of Natural Resources. *National Park Conservation Association Technical Report*. 35 pages.

Massman, S., Barrow, D., and Laituri, M. 2007. Santa Monica Mountains National Recreation Area, Assessment of Natural Resources. *National Park Conservation Association Technical Report*. 116 pages.

Gibson, L. and Laituri, M.. 2007. Hawaii Volcanoes National Park, Natural Resources Assessment. *National Park Conservation Association Technical Report*. 52 pages.

Murphy, S., Laituri, M., Faber, B., Henn, A. and Buirgy, R. 2006. State of the Watershed Handbook. 18 pages. <http://biocomplexity.warnerenr.colostate.edu/docs/SOWHandbook.pdf>,

Laituri, M. and Astel, M. 2000. Quantitative methods in environmental justice: an annotated bibliography, USDA-USFS Grant #97-RMRS-98157-RJVA, 55 pages.

Osleeb, J. and Laituri, M. 1997. Access and equity, University Consortium for Geographic Information Systems: Education White Paper, 4 pages. http://www.ncgia.ucsb.edu/other/ucgis/ed_priorities/access.html

CONTRACTS & GRANTS

Externally-Funded Projects as PI

2018-2019 American Association of Geographer, University Partnerships with Secondary Cities (\$315,000)

2014 - 2020 National Park Service CESU (management of 12 Research Associates)

GIS Data Management Web Mapping and Mobile Technologies (\$4,000,000)

NPS Atlas (\$250,000)

Sea Level Rise Mapping (\$160,000)

GPS and GIS Applications (\$250,000)

Water Rights in Colorado (\$30,000)

NPS Water Data Management (\$400,000)

NPS Long Range Planning (\$360,000)

NPS Cultural Resources (\$35,000)

2016 – 2017 American Association of Geographers, University Partnerships with Secondary Cities (\$200,000, \$65,000)

2017 Lower Poudre Watershed Assessment and Participatory Mapping (\$12,000)

Melinda Laituri

- 2015 - 2016 American Association of Geographers, University Partnerships with Secondary Cities (\$232,000)
- 2013 City of Fort Collins, Mapping the Cache la Poudre Watershed, M. Laituri (\$5,000)
- 2011 - 2012 Environmental Defense Fund, Mapping the Colorado River Institutional Landscape, M. Laituri, (\$33,000)
- 2011 The Nature Conservancy, Demonstration maps of integrated datasets for the Colorado River Basin (\$25,000)
- 2010 Environmental Defense Fund, Mapping the Colorado River Institutional Landscape, M. Laituri, (\$25,000)
- 2010 The Nature Conservancy, Mapping Irrigated Lands of the Colorado River Basin, M. Laituri (\$20,000)
- 2009-2010 Colorado State Parks, CoTrails, M. Laituri (\$56,000)
- 2009 National Science Foundation, Ethiopia Research and GIS Workshop, M. Laituri, P. Evangelista, D Swift, J Moore. (\$20,000)
- 2009 - 2011 Wallace Genetic Foundation, Water Sanitation and Hygiene University Survey, M. Laituri (\$10,000)
- 2009-2011 US Forest Service, Fraser Experimental Forest Data Development Project, M. Laituri (\$10,000)
- 2008 - 2011 Colorado Agricultural Experiment Station; Developing a Geospatial Data and Analysis Center for Conservation Planning in Colorado, D. Theobald, M. Lefsky. (\$150,000)
- 2008 National Park Conservation Association; Technical report for Scott's Bluff National Park (\$5,000)
- 2007 National Park Conservation Association; Technical reports for Santa Monica Mountains Recreation Area and Hawaii Volcano National Park (\$11,000)
- 2007 National Park Service, Information and Monitoring Program using GIS, (\$200,000)*
- 2006 National Park Service, Information and Monitoring Program using GIS, (\$700,000)*
- *NOTE: This project was a Cooperative State Research Education and Extension Service program. My role at PI was to manage 15 CSU employees developing GIS products for the National Park Service. In addition, the FRWS departmental seminar highlighted these GIS projects. My graduate GIS class utilized data developed from this project to demonstrate GIS analysis of Park Service data: http://welcome.warnercnr.colostate.edu/static_pages/avprojects/web/nps07/
- 2004 - 2005 Larimer County Food Bank, Assessment of Gaps in Service using a GIS. (\$5,000)
- 2001 Snowmelt runoff and soil moisture recharge at the Fraser Experimental Forest, US Forest Service, K. Elder. (\$17,800)

Externally-Funded Projects as CoPI

- 2012 SNOWY: Strategic Needs of Water in the Yukon National Science Foundation EAGER award, M. Laituri - subcontract (Total award --- \$300,000)
- 2012 USDA Planning Grant: Strategic Water and Food Security Issues in the Colorado River Basin. R. Waskom, P. Taylor, M. Laituri (\$150,000)
- 2011-2014 An Ecohydrological Approach to Managing Intermittent and Ephemeral Streams on Department of Defense Lands in the Southwestern United States. Strategic Environmental Research and Development Program (SERDP), Department of Defense, L. Levick, M. Laituri, B. Bledsoe (\$1.19 million)
- 2010-2013 Does Community-Based Rangeland Ecosystem Management Increase the Resilience of Coupled Systems to Climate Change in Mongolia? National Science Foundation, M. Fernandez-Gimenez, R. Reid, S. Fassnacht, J. Thompson (\$1.5 million)
- 2009-2010 Vulnerability, and Resilience in North Asian Rangelands: Case Studies of Community-based Rangeland Management in China and Mongolia, Ford Foundation, M. Fernandez-Gimenez, R. Reid, S Fassnacht, J. Klein (\$235,987)

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- 2009-2010 Yukon River Water Council Workshop, National Science Foundation, B. Maracle, K. Elder, P. Schuster (\$30,000)
- 2003 – 2007 National Science Foundation: Biocomplexity Analysis of River and Road Networks in Puerto Rico, J. Loomis, J. Ramirez, T. Crowl, F. Scatena. (Total: \$3.5 million)
- 2004 – 2005 USDA- Forest Service, Examination of Rangelands and Recreational Activities using a GIS, J. Mitchell. (\$20,000)
- 2001-2002 Northern Colorado Plateau Water Monitoring Network, F. Smith, J. Stednick, L. MacDonald, National Park Service (\$108,000)
- 2003 GIS for GLOBE Teachers, Global Learning and Observations to Benefit the Environment, (Total: \$25 million – subcontract to develop GIS applications for teachers.)
- 1997-2000 Spatial information technology in the K-12 classroom, S. Linn, P. Uhls. Colorado Department of Education, (\$270,000)

Internally-Funded Awards

- 2019 – 2021 Emerging CORE Facility, VPR, \$150,000.
- 2019 - 2021 Global Mapping and Strategic Outreach, VPR, \$150,000.
- 2019 National Western Center, VPR, Mapping NWC research data. \$11,000.
- 2018 - 2019: CSU SOGES Environmental Justice Working Group, EJ in the Rio Grande Watershed. S. Malin, M. Laituri (\$22,000)
- 2018 - 2019: CSU Water Fellowship. M. Laituri (\$10,000)
- 2015 - 2017: Environmental Justice Working Group, SOGES. M. Laituri, D. Stevis, T. Shelly, S. Malin (\$15,000/year)
- 2015: CSU Innovation Award, M. Laituri, S. Fassnacht, C. Genarious, S. Linn (\$8,000)
- 2015: CSU Water Center, M. Laituri, K. Boone (\$5000)
- 2014 - 2015: Environmental Justice Working Group, SOGES. M. Laituri, D. Stevis, T. Shelly, S. Malin (\$10,000/year)
- 2013: Headwaters Initiative Working Group. SOGES. M. Laituri, R. Waskom, N. Grigg. (\$20,000)
- 2013: Kenya Field Course Ecological Plant Assessment. WCNr Minigrant. M. Laituri and B. Bruyere. (\$10,000)
- 2013: Cache la Poudre Headwaters Demonstration Project. WCNr Minigrant. S. Kampf, S. Rathburn, M. Laituri (\$10,000)
- 2012: Disaster Response, Mitigation and Modeling. SOGES. L. Peek, C. Trumbo, M. Laituri (\$20,000)
- 2012: Water Response Working Group. SOGES. R. Waskom, N. Grigg, B. Fugate, J. Pritchett, L. Poff, M. Laituri (\$20,000)
- 2012: TILT Course Redesign: WR 304. M. Laituri and S. Kampf. (\$10,000)
- 2012: Women's Studies Curriculum Award (\$500)
- 2010-2011 High Tech Trees: Engaging natural resource students in developing a web mapping-based campus tree inventory, Warner College of Natural Resources Minigrant, M. Laituri and Robert Coleman (\$10,000)
- 2009 International Programs Travel Grant, Colorado State University, (\$2000)
- 2008 Leadership through Learning: Innovations in conservation education. K. Crooks, M. Manfredo, R. Fichum, M Laituri, P. Newman
- 2008 Community-based Resource Management and Social-Ecological System Resilience: An Interdisciplinary Research Planning Meeting in Mongolia, M Fernandez-Gimenez, M. Laituri, J. Thompson, S. Fassnacht, B. Baival. (\$10,000)
- 2008 Enhance the cooperation between WCNr and Viet Nam Forestry University. M. Laituri, D. Binkley, J. Stednick, L. MacDonald, P. Doherty, S. Cottrell, Y. Wei (\$10,000)
- 2001 Disaster communities in cyberspace. M. Laituri and K. Kodrich. Center for Research on Writing and Communication Technologies, CSU, (\$5,000)

PAPERS PRESENTED/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS

Papers Presented – Invited Papers and Lectures:

2020. Melinda J. Laituri. Navigating the geography of COVID-19 using geospatial technologies. University of Colorado Geography Colloquium. Dec 4. Denver, Colorado.
2020. Melinda J. Laituri, facilitator. Cities, humanitarianism, and using geospatial analysis to mitigate risk. MapAction Webinar.
2020. Melinda J. Laituri. CSU GIS Day. The Geography of COVID-19. 19 November 2020.
2020. Melinda J. Laituri. Address of Guest of Honor: The Geography of Covid-19. International Web-Conference Covid-19 Pandemic from the Eyes of Geography: Global, National, and Regional Perspectives. September 11-12, 2020. Gauhati University, Assam, India.
2020. Melinda J Laituri. Water data and human geography. 50th Event on Planetary Health. 29 July. World-wide human geography working group. Washington DC.
- 2020 Melinda J. Laituri. The Geography of Troubled Waters: Water Data in Addis Ababa, Ethiopia. “Human Geography and Water” webinar series. Feb 26. World-Wide Human Geography Data Working Group, Washington, DC.
2020. M.J. Laituri, A. Shores. Mapping under-examined cities around the world. International Programs Symposium. 25-27 February. Colorado State University.
2020. Melinda J. Laituri. Science and Society: How environmental issues implicate civil rights. Panel Member. DU Civil Rights Summit. Jan 24-25.
2019. Melinda J. Laituri. Spatial Justice and Water Rights. University of Oklahoma, Norman, October. Invited speaker, OU Water Conference.
2019. Melinda Laituri. Invited panelist. US Department of State Mapathon. April 4. HST State Dept.
2019. Melinda J Laituri. Reflections on the Secondary Cities Initiative. Special Session: Coordinator and Presenter. American Association of Geographers Annual Conference, April, Washington, DC.
2019. Melinda Laituri. Invited panelist. Environmental Justice in the Anthropocene panel. American Association of Geographers Annual Conference, April, Washington, DC.
2019. Invited panelist – Woodrow Wilson Center; International Water Day discussion, April.
2019. Invited keynote speaker – EDSIN conference, Environmental Data Services, Boulder, CO April 2
2018. Invited Juror, University of Oklahoma Water Center. Presentation: Water rights and environmental justice.
2017. State of the Map, Asia. Keynote: Mapping Secondary Cities.
2016. Mapping Secondary Cities with Open Source Tools. IGU Conference, Moscow, Russia. August.
2016. Melinda J. Laituri. Past and Future of Participatory Mapping. Special panel session: American Association of Geographers Annual Conference, March, Chicago, IL 2016.
2016. Melinda J. Laituri. Wither GIS? Keynote Address, GIS in the Rockies, September 2016, Denver, CO.

2015. The System of Secondary Cities. Woodrow Wilson Center, Washington DC. October 1.
2015. GIS and Participatory Mapping: Science and Policy. Jefferson Science Fellowship Lecture Series, Office of the Science and Technology Advisor and the National Academy of Science, February, Washington, DC.
2015. Analyst brief: Participatory Mapping. Department of State, Intelligence and Research Bureau Front Office, March, Washington, DC.
2015. Science Note: Headwaters – Critical Source Water Regions. Office of the Science and Technology Advisor, May, Washington, DC.
2015. Mapping Secondary Cities. Invited Thematic Lecture. International Geographic Union Regional Meeting, August, Moscow, Russia.
2015. What is a Jefferson Science Fellow? Panel session on USG opportunities of academics. Annual Conference of the Association of American Geographers, March, Chicago, IL.
2015. Melinda J. Laituri, Sophia Linn, Steven R. Fassnacht, Niah Venable, Khishigbayar Jamiyansharav, Tungalag Ulambayar, Arren Mendezona Allegretti, Robin Reid, Maria Fernandez-Gimenez. 2015. The MOR2 Database: Building integrated datasets for social-ecological analysis across cultures and disciplines. *Building Resilience of Mongolian Rangelands: A Trans-disciplinary Research Conference*, Ulaanbaatar Mongolia, June 9-10, 2015.
2015. Invited Panelist: Improving Human Geography Data for Human Security Mapping. USGIF GeoINT Symposium. June, Washington, DC.
2015. Panelist: Secondary Cities: Shaping the World's Urban Future. GEO2050, November, Columbia University, New York.
2015. Plenary Session: Human Security in the Future Urban Habitat. GEO2050, November, Columbia University, New York.
2015. Places Matter! Invited ignite presentation, Chief of Missions Conference, February, Department of State, Washington, DC.
2015. Secondary Cities: Mapping Urban Areas. The System of Secondary Cities – Neglected Drivers of Urbanizing Economies, October, Woodrow Wilson Center, Washington, DC.
2014. Night with the Geographer: Disasters! Discovery Center Museum, April, Fort Collins, CO, Sponsored by COGA.
2014. SNOWY – Climate change in the Arctic. Global Village Museum of Arts, August, Fort Collins, CO.
2013. M. Laituri, L. Peek, C. Trumbo. Characteristics and impacts of historical hydrologic extremes with alternating drought and flood events. Circulating Natures: Water – Food – Energy, 7th Conference of the European Society for Environmental History, Munich, Germany, August 21 – 24, 2013.
2013. University of Oklahoma International WaTER Conference, Hydro-social cooperation through building regional knowledge networks. Invited presenter.
2012. M.Laituri. Indigenous Knowledge and GIS: Synergy and Conflict. East China Normal University, Shanghai, March.

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2011. M. Laituri. A comparative spatial analysis of the Colorado and Danube river basins. World Large Rivers, Vienna, Austria, April 11 – 14. Invited.
2011. M. Laituri. A bird's eye view: Digital representations of legacy landscapes. Rachel Carson Center and Ludwig Maximilians University, Munich.
2011. M. Laituri. Mapping the institutional landscape of water governance. Work in Progress Seminar, Rachel Carson Center, Munich, Germany.
2010. The Evolution of Cooperation and Trading (TECT), Program evaluation and overview. Invited participant, Brussels, Belgium.
2010. Seminar: Indigenous Knowledge and Spatial Information Technologies. University of Botswana.
2010. Capitol Hill Briefing: Water and Sanitation and Higher Education, panel member, Washington, D.C.
2009. M. Laituri. Presented 4 seminars on “Geography and Future Opportunities in Research and Education”, “Geospatial Technologies in Response to Natural Disasters”, University of Nebraska, Lincoln and University of Nebraska, Omaha, Visiting AAG Scholar, invited.
2009. M. Laituri, “Collaborative Research Opportunities in Ethiopia” and “GIS Education and Training Workshop”, Addis Ababa, Ethiopia, organizer and presenter at NSF sponsored Ethiopian workshops.
2009. M. Laituri, GIS in the Rockies. Panel discussion on Stewardship and Governance of State datalayers, invited panelist.
2009. F. Sternlieb and M. Laituri. Tracking political climate change: US policy and the human right to water. Water Resources Management IV, September 9 – 11, Malta.
2008. Mongolian Rangelands and Resilience: A collaborative research planning meeting. FRWS Departmental Seminar, Colorado State University. (w/ M. Fernandez-Gimenez, S. Fassnacht, R. Reid, and B. Baival.
2007. K. Kodrich and M. Laituri. The impact of cyberspace disaster-response communities on internet giving: How online media facilitated relief efforts following hurricane Katrina and the Indian Ocean tsunami,” 6th Annual Hawaii International Conference on Social Sciences, May 30 - June 2, 2007, Honolulu, HI. (refereed paper)
2006. M. Laituri and K. Kodrich. The on-disaster response community: multiple high magnitude disasters and geospatial technologies International Communication Association, Dresden, Germany, June (refereed paper).
2006. M. Laituri. The state of public participation GIS. Annual PPGIS Conference (in conjunction with Annual URISA meeting) Chair of PPGIS Conference. Vancouver, British Columbia, Canada.
2006. M. Laituri. GIS and Disaster Management. USGS GIS Conference. Denver, CO. (plenary speaker).
- NSF-related presentations:
2006. Social and Behavioral Sciences Institute, University of Arizona, AZ
2006. Campus-wide presentation, University of Hawaii, Manoa, HI
2006. Geography Seminar, University of Maryland, Baltimore County

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2006. Association of Annual Geographers, Chicago, Ill.
2005 – 2006. NSF Presentations: How to get Funded
2005. College of Natural Resources, CSU, Fort Collins, CO
2005. Department of Geography, University of Colorado, CO

2005. K. Kodrich and M. Laituri. The tsunami and the internet: the role of new media technologies in Disaster Awareness and Relief. International Conference on Technology, Knowledge and Society, University of California, Berkeley. (refereed paper).

2004. M. Laituri. GIS Applications for resource management. UNIGIS Conference, George Techikon, George, South Africa. (keynote speaker).

2002. GIS Applications for Resource Management, Linkoping University, Sweden.

2002. Revisiting GIS Applications in NZ under the Resource Management Act, University of Auckland, New Zealand.

2001. M. Laituri. Public participation and access to digital information. AGILE/NSF Workshop: Public Participation and Information Technology, Spoleto, Italy.

Workshops

2020. Meaningful Mapping for Community Needs. Sept 24. Todos Santos Center, Colorado State University.

2019. Dynamic Mapping of Secondary Cities. Secondary Cities Initiative, Department of State. Center for Geospatial Analysis, Harvard. June 17.

2018. UO Water Symposium. University of Oklahoma, October 10-12

2017. GIS Workshop with China University partners, George Mason University, November 1.

2017. Fourth annual water and environmental sustainability symposium. March 22, Uncertainty in Science, Colorado State University.

2017. Workshop on leveraging geographic information to combat wildlife trafficking. US Dept of State/Michigan State University, Stimson Center, Washington DC, October 23.

2016. Dynamic Mapping of Secondary Cities. Secondary Cities Initiative, Department of State. Center for Geospatial Analysis, Harvard. June 15 – 16.

2015. DOS-GGI Regional Environmental Officer Workshop -- Secondary Cities. Washington, DC. November. M. Laituri, T. Gertin, K. Mumford, E. Nunez, D. Fugate

2013. US Water Data Workshop, Reston, Virginia. US Global Water Partnership and US Department of State. Coordinator: M. Laituri, C. Chaivoitz.

2013. Spatial Thinking in the Classroom. Professional Development Institute, Colorado State University, M. Laituri and S. Linn.

2013. Google Liquid Galaxy at CSU Morgan Library: An engaging and immersive new resource for teaching, M. Laituri, S. Linn, D. Ramsay, D. Hamp, Y. Benchouaf.

2013. Social Network Analysis Workshop for Water and Resource Management. Colorado State University.

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2013. The Cache la Poudre Headwaters Initiative: The role of data in understanding a river system. IStEC, Colorado State University.
2010. Cyber-GIS in the Developing World. Position paper for the National Science Foundation TeraGrid sponsored research workshop. S. Prager, P. Evangelista, M. Laituri. Washington, D.C.
2010. Geospatial technologies in the classroom. Warner College of Natural Resources and The Institute for Learning and Technology sponsored workshop.
2010. Information Science & Technology Center and Geospatial Centroid@CSU: Innovations in GIS Retreat, Organizer.
2007. SRR Rangeland Landscape Pattern and Fragmentation Workshop. Sustainable Rangelands Roundtable, organizer and facilitator, Peaceful Valley, CO.
2007. Social and Ecological Complexity in Agent-Based Modeling, invited participant, National Science Foundation, Phoenix, AZ.
2005. Natural Resource Management: Sustainable Management and Watershed Management, Humphrey's Fellowship Program, International Education Council, invited participant and facilitator, Denver, CO.

International Workshops

2020. Geospatial support for resilience. Interagency Resilience Workshop, Kiev, Ukraine, February 11-12.
2019. Technical Exchange. Secondary Cities Workshop. Tijuana, Mexico, October 15 – 16.
2019. Technical Exchange. Secondary Cities Workshop. Kathmandu, Nepal, August 5 – 8.
2019. Technical Exchange: Secondary Cities Workshop. Accra, Ghana, July 15 – 19.
2019. Technical Exchange: Secondary Cities Workshop. Quito, Ecuador, June 2 – 8.
2019. Assessment of Addis Ababa River Basin, Ethiopia, US Water Partnership. May 2 – 12.
2018. Assessment of the Citarum River, Java, Indonesia, US Water Partnership. September 14 -22.
2017. GIS Ethics and Data Integrity, State of the Map, Kathmandu, Nepal, September.
2017. Assessment of the Nairobi River Basin, Kenya. US Water Partnership. June 16 – 23.
2017. Technical Exchange: Secondary Cities Workshop. Pretoria, South Africa, July.
2017. Assessment of the Nairobi River Basin, Kenya. US Water Partnership. June 16 – 23.
2017. Workshop on leveraging geographic information to combat wildlife trafficking. US Dept of State/Michigan State University, Stimson Center, Washington DC, October 23.
2016. Russia Summer School, Moscow. Participatory mapping. August.
- 2015- 2017. DOS-GGI Secondary Cities Workshops. GIS Training and Field Data Collection. Cusco, Peru; Medellin, Colombia; Santa Fe, Argentina; Pokhara, Nepal; Kharkiv, Ukraine.

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- 2014 - 2015. CSU Workshops: Water Resource Management. March, Wondo Genet University; Hawassa University, Ethiopia. M. Laituri, P. Evangelista, T. Wakie, A. West, S. Chignell.
2015. DOS-GGI Secondary Cities Workshop. GIS Training and Field Data Collection. June, National University of Saint Anthony the Abbot of Cusco. Cusco, Peru. M. Laituri, K. Mumford, E. Nunez.
2014. CSU Workshops: Water Resource Management. March, Wondo Genet, Ethiopia. M. Laituri, P. Evangelista, T. Wakie, A. West, S. Chignell.
2013. USAID-CARE Workshops: Participatory Mapping Workshop and GPS Training, June, Addis Ababa, Ethiopia; Wondo Genet College, Hawassa University, Ethiopia; Awash, Ethiopia. M. Laituri, P. Evangelista, T. Wakie, G. Newman.
2013. Global Environments Summer Academy: Participatory Mapping Workshop. Bern, Switzerland. M. Laituri.
2012. Watershed Science and GIS Training. Wondo Genet College, Hawassa University, Ethiopia.
2011. Community-Based Rangeland Ecosystem Management and Climate Change Workshop, Ulaanbataar, Mongolia.
- 2011 - 2015. Community-Based Rangeland Ecosystem Management and Climate Change Workshop, Ulaanbataar, Mongolia.
2011. GIS Training and Education. Hanoi Agricultural University, Hanoi, Vietnam.
- 2009 – 2010. Poverty, Vulnerability, and Resilience in North Asian Rangelands: Case Studies of Community-based Rangeland Management in China and Mongolia Workshop, invited, Beijing, China.
2008. Natural resource research and geospatial analysis as an integrative tool. Development of GIS demonstration projects and short courses. Presentations at Workshop for Educational Opportunities at Vietnam Forestry University.
2008. International Interdisciplinary Research Collaboration and Geospatial Analysis as an Integrative Tool. Primer: Research Design. Presentations for An Interdisciplinary Collaborative Research Planning Meeting, invited participant, Ulaanbataar, Mongolia.
2008. The Watershed as a Unit of Analysis: Relationships between Environmental History and Policy. European Science Foundation, ENVIRDANUBE workshop, invited keynote speaker, Vienna, Austria
2007. GIS and Environmental History: Applications. A Place in Europe: Historical GIS and New Perspectives Workshop, European Science Foundation, Nov 30 – Dec 2, invited participant, Barcelona, Spain.
2007. GIS, Indigenous knowledge and the Internet. Ways of Knowing Workshop, invited participant, McGill University, Montreal, Canada.
- 2004 – 2007. Developing a GIS database for Biocomplexity Research, Biocomplexity Workshop, invited participant, National Science Foundation, Puerto Rico.

COLLABORATIVE & INTEGRATIVE INTERDISCIPLINARY SCHOLARSHIP

- In 2009 I established the Geospatial Centroid @ CSU (gis.colostate.edu); the Centroid is designated a CSU Emerging Core Facility. Situated in Morgan Library, the Centroid serves the entire CSU community to bring

together GIS researchers across campus, identify research activities, streamline GIS curriculum and provide venues to discuss cutting edge issues in GIS. Initially funded by the CAES, the Centroid oversees several projects and participates on various research activities to provide cartographic services, database design and organization, and geographic analysis. Student interns work on numerous projects, provide a help desk and oversee the website.

- A key aspect of my research is addressing access and equity to geospatial technologies. My teaching and research is integrated in the class and has resulted in the following materials. These materials provide the basis for additional research activity (the role of technology to meet society’s needs), workshops (development of hands-on projects for resource managers, K-12 teachers, and students), and applications for interdisciplinary study (environmental history and hydrology applications). The outcome of these activities can be found at the following sites: <http://gisedu.colostate.edu>.
- Center for Environmental Justice was established in 2019 building on the SOGES-sponsored Environmental Justice Working Group (2014 – 2019) (<https://www.libarts.colostate.edu/environmentaljustice2020/>). As a founding member of this effort, we are creating methods to promote CSU as an Environmental Justice campus, develop a global network of researchers and practitioners, and provide outreach events about environmental justice issues and activities.
- I manage several National Park Service (NPS) projects through the Cooperative Ecosystem Studies Unit (CESU) that promote a partnership between CSU and NPS. These projects and activities are described at this website: <https://warnercnr.colostate.edu/warnercollegeofnaturalresources/cesu-ess/>. These projects use geospatial tools and technologies to develop platforms for NPS data products, maps, mobile tools, and visualizations.

TEACHING:

<u>Year</u>	<u>Semester</u>	<u>Course No./Title</u>	<u>Cr. Hrs.</u>	<u>Enrollment</u>	
2005	Spring	NR 793/Seminar in GIS/RS	1	12	
		NR 420/Ecosystem Management (50%)	4	92	
		WR 440/Watershed Problem Analysis (20%)	4	12	
		NR 695/Research Seminar	Variable	20	
		GR 495/Independent study	3	3	
		Sum	NR 220/Ecology Measurements (20%)	5	82
2006	Fall	F 230/Forestry Measurements (50%)	2	42	
		NR 505/Concepts in GIS	4	36	
2007	Spring	NR 695/Research	Variable	13	
		NR 555/Grant and Proposal Writing	2	10	
2008	Spring	WR 440/Watershed Problem Analysis (20%)	4	7	
		NR 220/Ecology Measurements (20%)	5	80	
		Fall	NR 505/Concepts in GIS	4	25
		WR 420/Watershed Practicum (30%)	2	15	
		F 694/Departmental Seminar	1	13	
		GR 495/Independent Study	3	2	
		WR 695/Independent Study	2	3	
		NR 555/Grant and Proposal Writing	2	9	
		WR 695/Peace Corps Master Intern’l Seminar	2	9	
		WR 440/Watershed Problem Analysis (15%)	4	5	
2009	Spring	Sum	NR 220/Ecology Measurements (20%)	5	86
		F 230/Forestry Measurements (50%)	2	26	
2009	Fall	NR 505/Concepts in GIS	4	23	
		NR 555/Grant and Proposal Writing	2	14	
		NR 495/Independent Study	Variable	3	
2009	Spring	GEOL 798/FRWS695,798/ECOL695	Variable	5	
		Sum	NR 220/Ecology Measurements (20%)	5	83

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	Fall	NR 420/Ecosystem Management (50%)	4	86
		GR 342/Geography of Water Resources	3	36
		WR/FRWS/GEOL684,698,799	Variable	7
		NR 495/Independent Study	Variable	1
		NR 505/Concepts in GIS	4	34
2010	Spring	NR 555/Grant and Proposal Writing	2	20
		WR/FRWS/GEOL 695, 699	Variable	5
	Fall	WR/FRWS/GEOL 695, 698, 799	Variable	7
2011	Spring	WR/FRWS/GEOL695, 698, 799	Variable	6
	Fall	NR 505/Concepts in GIS	4	33
		GR 342/Geography of Water Resources	3	42
		NR 495/Independent Study	Variable	1
2012	Spring	WR 304/Watershed Management (50%)	3	85
		NR 495/NR695	Variable	10
	Sum	Experimental Field Course, Kenya	4	20
	Fall	WR 304: Sustainable Watersheds	3	86
2013	Spring	WR 510/Water Resource Management in Developing Countries		
			2	11
	Sum	NR 220/Ecology Measurement (20%)	5	93
	Fall	NR 505/Concepts in GIS	4	27
		WR 304/Sustainable Watersheds	3	100
2014	Spring	NR 544D/Spatial Applications in Conservation	1	14
	Sum	NR 220/Ecology Measurements (20%)	5	80
2015	Fall	NR 505/Concepts in GIS	4	16
2016	Spring	HONR 293/Ways of Knowing	3	19
		NR 544D/Spatial Applications in Conservation	1	14
2016	Fall*	NR 505/Concepts in GIS	4	17
2017	Spring	NR 544D/Spatial Application in Conservation	1	18
2017	Fall*	NR 505/Concepts in GIS	4	18
2018	Fall	WR 514/GIS and Water Data (online course development)		
2019	Spring	WR 510/Water Resource Management in Developing Countries		
			2	11
2019	Fall*	NR 505/Concepts in GIS	4	17
2020	Spring	Joint Water class – Tsinghua-Melbourne	1	60
2020	Fall*	NR 505/Concepts in GIS	4	24

*Oversaw teaching of course with Tewodros Wakie; Greg Newman

Other Teaching activities:

2017: Proposed Study Abroad, Mongolia Summer 2017; Offered 2018. Not enough students.
2010 – 2018: Development of Online Graduate Water Certificate; 3 core courses

ADVISING:**STUDENT ADVISING/GRADUATE SUPERVISION****UNDERGRADUATE STUDENTS:**

11 Undergraduate Advisees – 2020 (Centroid Interns)
12 Undergraduate Advisees – 2019 (Centroid Interns)
11 Undergraduate Advisees – 2018 (Centroid Interns)

14 Undergraduate Advisees – 2017 (Centroid Interns)
12 Undergraduate Advisees – 2016 (Centroid Interns)
6 Undergraduate Advisees - 2015
6 Undergraduate Advisees - 2014
8 Undergraduate Advisees - 2013
7 Undergraduate Advisees - 2012
6 Undergraduate Advisees - 2011
3 Undergraduate Advisees - 2010
7 Undergraduate Advisees - 2009
6 Undergraduate Advisees - 2008
7 Undergraduate Advisees - 2007
8 Undergraduate Advisees - 2006
6 Undergraduate Advisees - 2005

GRADUATE STUDENTS:

Current Graduate Advisees:

Heather Hicks, PhD candidate
Hazma Taleb, PhD candidate
Alicia Tyson, PhD candidate
Josh Reyling, MS

Graduate Degrees Completed Under Your Supervision (since 2005):

Erin Poston, 2005, PhD
Karen Weinbaum, 2005, MS
Mark Drummond, 2006, PhD
Kirk Sherrill, 2006, MS
Kristie Maczko, 2006, PhD
Jim Graham, 2006, PhD
Hilary Spitz, 2006, MS
Cinda Murdock 2007, MNRM
Diane Abendroth, 2008, MS
Cory Bolen, 2008, MS
Chris Peltz, 2008, MS
Shelley Street, 2008, MS
Kristie Vanden Bosch, 2010, MS
Bao Tran, 2009, PhD
Alisa Wade, 2009, PhD
Angie Henn, 2009, MS
Matt Lineal, 2010, MS-PCMI
Greg Newman, 2010, PhD
Jai Ling, MS, 2012, MS
Jamie Fuller, 2012, MS
Carl Reeder, 2013, MS-PCMI
Ryan Jenson, 2014, MS-PCMI
Faith Sternlieb, 2014, PhD
Michele Kinseth, 2015, MS
Aaron Sidder, 2015, MS
Arren Allegretti, 2015, PhD
Amy Birtwistle, 2015, MS
Tewodros Wakie, 2015, PhD
Sky Skach, 2015, MS
Jamie Hoover, 2016, PhD
Chad Young, 2016, MS-PCMI

Steve Chignell, 2017, MS
Amanda Shores, 2017, PhD
Alex Neipoth, 2017, MS-PCMI
Karie Boone, 2018, PhD
Jessica Teets, 2018, MS-PCMI
Conrad Marshal, 2018, MS
Alyssa Borelli, MS, 2018, MS
Danielle Davis, MS, 2019

OTHER ACTIVITIES/ACCOMPLISHMENTS – TEACHING/ADVISING

2020 Guest lecture, NR 300 – Spatial justice, vulnerable populations, and data integrity
2020 Guest lecture, NR 495 – Participatory mapping in the digital age
2020 Guest lecture, ESS 501 – The geography of troubled waters.
2020 Guest lecture, FW 380A1 – Participatory Mapping.
2020 Guest lecture, Environmental and Radiological Health Science, Center for Environmental Justice
2020 Stephanie Talone, Honors Thesis: The Importance of Geospatial Information in Managing Natural Disasters: A Case Study on Hurricanes in the United States
2020 Joint Water Course: CSU, Tsinghua, Melbourne
2018 - . Graduate Online Water Certificate
2015. UCGIS Webinar: Designing and Supporting Cross-Campus Geospatial Initiatives
Tuesday, March 3, 2015, 3:00 EST
2011-2012. Visiting scholars/outstanding students sponsored, Zhenming He, School of Geoscience, Yangtze University.
2010 – present. Director of the Water Certificate. Developed the Water Resources Certificate. Taught the online WR 581A – GIS and Water Resources (2009-2011)
Off-campus/non-credit courses
2008. K-12 Complexity Science Workshop: November 19, Biocomplexity Education and Agent Based Modeling, Colorado State University.
2008. K – 12 Complexity Science Workshop: May 28-30, NSF Biocomplexity Education Project, instructor, Puerto Rico.
2008. Peaks to Prairies K-12 GIS Workshop, 1 day workshop, instructor, Fort Collins, CO.
2005 – 2010. Continuing Education for Environmental Managers, GIS Analysis and Training, 2 day workshop, instructor, Fort Collins, CO.
2005. Humphrey Enhancement Workshop, facilitator and presenter, Institute of International Education, Denver, CO.
2004. UNIGIS Conference, GIS Applications for Natural Resource Management Workshop, 1 day workshop, instructor, George, South Africa
2003. GIS for GLOBE Teachers, Global Learning and Observations to Benefit the Environment, 2 day workshop, instructor, Greeley, Colorado.
2002. High School Teacher Training in GIS, Global Positioning Systems, and Remote Sensing, Schools on the Prairie, 2 day workshop, instructor, Greeley, Colorado.
*Multiple guest lectures each year CSU: NR 322, 422, ERHS 693A, ESS 501, NR 493

COMMITTEES

University Committee, year(s)

VPR Cores Facility Committee (2018 – 2019)
CSU Water Executive Committee (2013 - 2015)
CSU Water Response Team (2012 - 2013)
CAS Intra-College University Review Committee (2013)
President’s Commission on Women and Gender Equity (2014)
ISTeC Research Advisory Committee (2011 -)
Women’s Studies Executive Board (2013 - 2016)

Council of Academic and Associate Deans, CSU (2006 - 2008)
Admissions Advisory Committee, CSU (2006 - 2008)
Continuing and Distance Education Advisory Committee, CSU (2006 - 2008)
Committee for Scholastic Standards, CSU (2006 - 2008)
GDPE Advising Faculty (2000 -), GDPE Steering Committee (2004 -2005; 2009-2010)
International Interdisciplinary Studies Advisory Board (2004 – 2005)
Water Tables Advisory Board (2007 - 2009)
International Development Studies Steering Committee (2004 – 2005)
North Central Association Accreditation Self Study, CoChair, Institutional Integrity Committee
Information Science Technology Education Research Committee (2009 -)
Director, Geospatial Centroid at CSU (2009 -)
Faculty Council (2011 – 2014)

College Committee, year(s)

Ad Hoc WCNR GIS Committee (2018 -)
Executive Committee, WCNR (2006 - 2008)
Advisor and Liaison, Peace Corps Master's International Program, WCNR (2006 - 2016)
Fulbright College Representative, WCNR (2012 -)
International Committee, WCNR (2009 – 2011)
Graduate Fellowship Coordinator (2006 - 2008)
Distance Education Committee, Chair (2007 -2008)
Pingree Park – NR 220 Committee, (Chair, 2007 – 2008; member 2009 - 2010)
Outreach and Engagement Committee (2007 -2008)
WCNR Curriculum Committee (2006 -2008)
Program Review College Coordinator (2006 -2008)
Supervise the WCNR Student Affairs Office (2006 -2008)
Search Committee, FRWS Department Chair (2004; 2006)
Faculty Advisor, College Council (2006 -2008)
Peace Corps Master International College Advisor (2006 - 2016)
Faculty Advisor, ASPRS student chapter (2009 --)

Department Committee, year(s)

ESS Program Review Committee (2013)
Search Committee Chair, Watershed Science (2013)
Promotion and Tenure Committees:
 Maria Gimenez-Fernandez, Chair (2001 – 2007)
 Michael Lefsky (2003 – 2007)
 Monique Rocca, Chair (2004 - 2010)
 Paul Meiman, Chair (2006 – 2010)
 Julia Klein, (2006 - 2015)
 Stephanie Kampf (2007 - 2016)
 Melissa McHale (2017 -)
 Daniela Cusack (P&T shepherd, 2020)
 Gillian Browser (2019 -)
 Nathan Mueller (2020 -)
Steering Committee, FRWS (2002 – 2004; 2007 - 2009)
Advisor: Plan C, Interdisciplinary GIS Certificate (2005 - 2010)
Curriculum Committee (2007 - 2008)
Graduate Committee (2007 - 2008)
Plan C Committee (2007 - 2010)
Watershed Program (1995 -); Watershed Program Leader (2006 - 2007)

ESS Curriculum Committee

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Memberships in professional societies

Association of American Geographers
Society for Conservation GIS
Ecological Society of America
American Society of Photogrammetry and Remote Sensing
The Society of Woman Geographers (invited)
Universities Council on Water Resources (Executive Board, 2015 – 2018)

Grant review panels

AAG COVID-19 Blue Ribbon Panel – Proposal evaluation (2020)
NSF NNA Panel (2019, 2020)
The Society of Woman Geographers (2018, 2019, 2020)
NSF Arctic Program, Site visit (2018)
Panel member: LIRA, International Council for Science (2017, 2018)
US Science and Technology Panel – Pakistan (2015, 2016, 2017)
Panel member: PEER SERVIR/Environmental management and climate change (2015, 2016)
Reviewer, Fresh Water International (2013)
Panel member: European Science Foundation (2016 -)
Panel member: US Water Consultant Program (2016 -)
Panel member: NSF Ecology of Infectious Diseases Review Panel (2007, 2009, 2010, 2013, 2014)
Panel member: NSF Research Experiences for Undergraduates Review Panel (2008, 2011, 2012)
Panel member: NSF RCN (2012)
Reviewer, Ontario Ministry of Economic Development and Innovation (2012)
Panel member: NSF Science and Technology Centers (2011)
Panel member: NSF PIRE pre-proposal; Final proposal (2009, 2015)
Panel member: NSF Research Experiences for Undergraduates Review Panel (2007)
Panel member: NSF Partnerships for International Research and Education Review Panel (2007)
Panel member: NSF Humans in the Polar Regions Review Panel (2007)
Reviewer, EUROCORES, European Science Foundation – Humanities Program (2006 -)
Panel member: NSF Biocomplexity in the Environment, Coupled Natural and Human Systems Review Panel (2004, 2005)

Grant Refereeing

Reveiwler, multiple single NSF proposal reviews (2019)
Reviewer, Postdoctoral Polar Research programs, NSF (2012)
Reviewer: Fulbright Senior Scholars program (2007 – 2009)
Reviewer, Research Council of Norway, International Program (2008)
Reviewer, NIH, International and Cooperative Projects (2008)
Reviewer, ESF, Research Networking Program (2008 -)
Reviewer: NSF Major Research Instrumentation proposals (2007)
Reviewer: NSF Geography and Regional Science proposals (2004 -)
Reviewer: NSF Arctic Social Sciences Program (2006 -)
Reviewer: Federal Geographic Data Center proposals (2005)

Manuscript Refereeing

Park Science (2011 – 1); Journal of Mapping (2011 – 1); Environmental Management (1998 – 2; 2000 – 1; 2001 – 1; 2004 – 2; 2010 -1; 2011 – 2; 2019 - 2), Annals of the Association of Geography (2003 – 2; 2006 – 1; 2007 – 1; 2009 – 2; 2015 - 1), Society and Natural Resources (2004 – 1; 2006 – 1; 2007 – 1; 2012 – 2; 2013 – 3; 2015 - 1), Journal of America Water Association (2001 – 2; 2002 – 1; 2009 – 1; 2015 - 1), Mountain Research and Development (2001 – 1; 2002 – 1; 2004 1; 2011 - 1), Arctic Polar Journal (2006 –

2; 2007 – 3; 2008 – 1), Journal of Environmental Policy and Planning (2007 – 1; 2008 – 2; 2015 - 2) Cartographica (2002 – 1; 2015 - 1); Journal of Environmental Management (2005 – 1; 2007 – 2; 2012 – 2; 2015 – 1; 2016 3; 2017 – 3; 2020 – 1); URISA Journal (2005 -1; 2006 – 1), Biological Conservation (2008 – 1; 2010, 2); Journal of Hydrology (2012 – 2); International Journal of GIS (2012 – 4; 2015 – 1; 2017 – 1; 2021 - 1); Environmental Modeling and Software (2013 – 1); Global Environmental Change (2015 – 1); Journal of Applied and Basic International Research (2015 - 2); Transactions in GIS 2016 – 1); Frontiers of Earth Science (2016 -1; 2019 - 2); Geographical Review (2016 – 1); Regional Science (2019 – 1); Current Opinion in Environmental Sustainability (2019 – 1); Journal of Map & Geography Libraries (2020 – 2); Community Development Journal (2017 – 1; 2018 – 2; 2019 – 1; 2020 – 1); Water and Environment Journal (2020 – 1)

Other

ESF – Flanders’ Research Foundation (FWO) – Post-doctoral proposal (2021)
IAB – NSF Harvard geospatial program meetings (2015 – 2021)
NSF-NNA panel, May (2020)
AAG COVID-19 Blue Ribbon Panel, June (2020)
University of Sharjah, Research proposal review, 2020.
UNC Charlotte, External Review for the Center for Applied Geographic Information Science (2020)
Mitacs Accelerate graduate research proposal (2020)
Springer publishing, book review (2019)
Jefferson Science Fellows, Reviewer (2015, 2016, 2017, 2018, 2019, 2020)
EPA Environmental Indicators, Reviewer, (2012)
International Water Research Symposium, Co-chair, CSU (2008 -)
Watershed Science 50th Anniversary, Co-organizer, CSU (2008)
Reviewer, Research Council of Norway, (2008 --)
Reviewer, European Science Foundation (2007 --)
Reviewer, Fulbright Graduate Review Committee (2007)
Chair, Public Participation GIS Conference, Vancouver, Canada (2006)
Reviewer, EUROCORES, European Science Foundation – The Evolution of Cooperation and Trading Program, member review committee. (2006 - 2010)
Member, NSF Arctic Program Committee of Visitor Comprehensive Program Review (2006)
Co-Chair, Public Participation GIS Conference, Cleveland, Ohio, (2005)
Reviewer, Fulbright Environmental Science Senior Scholars Committee (2005 -)
*Multiple external P&T evaluations (2017-2020)

OTHER ACTIVITIES/ACCOMPLISHMENTS – SERVICE/OUTREACH

Special service to the state/community related to professional expertise
Todos Santos Meaning Mapping of Community Needs Workshop, September (2020)
The Green Sleep Project: Podcast – Environmental Racism and Pollution, January (2021)
Center for Environmental Justice, Founding member, Launch event – September (2020)
GES Steering Committee, North Denver, Colorado Department of Public Health (2020)
Water Law Review Symposium (2020)
GIS in Higher Education Summit (March 2017); hosted by CSU
UCOWR Planning Committee, Annual Conference (2017)
Rotary Club, What is the Centroid? May 2016
SOGES Managing the Planet Panel Participant: The Las Animas River Spill: Are there local and global implications? September 16, Avo’s, Fort Collins (2015)
Fulbright Specialist Program (2013 -)
US Water Partnership Web Portal Advisory Board (2013 -)
University WASH Network, Member (2009 -)
Urban and Regional Information Systems Association (URISA) GIS Corps Certificate for volunteer contributions to developing a rainwater harvesting model for Enterprise Works VITA, (2009).
Higher Education GIS Summit, Coordinator and Participant (2008 -)

Melinda Laituri

Member, GIS Front Range Networking Cluster, (2007 -)
Invited host, Water Tables, Morgan Library, CSU, (2007)
Invited panelist, University Dialogues, Environmental Aspects of Immigration. CSU (2006).
Invited Speaker, Oil, Energy, and Climate Change, Americans for an Informed Democracy Fort Collins, Colorado. (2006)
Poudre School District Key Communicator (2005 -)
Presentation: Environmental Equity. Fort Collins Chamber of Commerce, Environmental Committee (2004).
Poudre School District GIS Advisory Board (2003 – 2005)
GIS 4 Colorado (K-12 Planning Organization) (2003)
Member, Geospatial Advisory Council, State of Colorado (2007 -)
ArcView GIS Training K-12 Teachers (1997-2000)
Service Learning Project in the Community, GR 100 (1996)
Coordinator, CSU GIS Day Open House, CSU, Ft. Collins, CO (1999, 2008 -)