

Curriculum Vitae
Megan Mucioki

CURRENT APPOINTMENT

April 2015-Present **Post-doctoral Researcher**
Tribal food security and agroecosystem resilience
Dept. of Environmental Science, Policy and Management
University California at Berkeley

EDUCATION

2015 **McGill University** Montreal, Quebec.
Ph.D. Plant Science- social ecological systems
Dissertation: Constructing seed sustaining farms with
informal seed systems and crop diversity in semi-arid
Kenya

2011 **University of Victoria** Victoria, British Columbia
Master's of Science Environmental Studies- ethnobotany

2009 **Ohio Northern University** Ada, Ohio.
Bachelor of Science Biology- botany.

2008 **James Cook University** Cairns, Queensland, Australia
Year of international exchange Indigenous studies

RESEARCH INTERESTS

Indigenous food systems; sustainable food systems; seed sovereignty and security; food sovereignty and security; informal seed systems and agrobiodiversity; in-situ and ex-situ conservation of traditional food plants; traditional ecological knowledge; community-based participatory research;

TEACHING INTERESTS

Indigenous food systems; local food systems; food security; informal and formal seed systems; cultural landscapes, ecosystems, and food; collaborative, cross-cultural research methods

PUBLICATIONS

Refereed journal articles

2018 Mucioki, M., Pelletier, B., Johns, T., Muhammad, L.W., and Hickey, G.M. (2018).

- Chronic household seed insecurity in semi-arid Kenya: a case study considering seed and food policy. *Food Security*, 10(3): 571-587.
- 2018 Mucioki, M., Sowerwine, J., and Sarna, D. (2018). Thinking inside and outside the box: local and national considerations of the Food Distribution Program on Indian Reservations (FDPIR). *The Journal of Rural Studies*, 57: 88-98.
- 2016 Mucioki, M., Hickey, G.M., Muhammad, L., and Johns, T. (2016). Supporting farmer participation in formal seed systems: Lessons from Tharaka, Kenya. *Development in Practice*. 26:2, 137-148.
- 2015 Mucioki, M., Johns, T., Muriithi, C., and Hickey, G. (2015). The influence of gender roles and human migrations on the distribution of crop biodiversity in Tharaka, Kenya. *The Journal of Ethnobiology*. 36(1):172-191.
- 2014 Mucioki, M., Mucioki, S.K., and Johns, T. (2014). Intraspecific diversity and seed management of pearl millet (*Pennisetum glaucum* (L.) R. Br) in Tharaka, Kenya: a persistent and valued traditional food crop. *Economic Botany*. 68(4), 397-409.
- 2013 Dilbone, M., Turner, N.J., and von Aderkas, P. (2013). Lodgepole Pine Cambium (*Pinus contorta* Dougl. Ex Loud var. *latifolia* Engelm. Ex S. Wats.): A Springtime First Peoples' Food in British Columbia. *Ecology of Food and Nutrition*. 52(2), 130-147.

Articles in submission

- 2018 (*co-lead author with Sowerwine*) Sowerwine, J., Mucioki, M., Sarna, D., and Hillman, L. Reframing food security by and for Native American communities: A case study among Tribes in the Klamath River Basin of Oregon and California. *Food Security*.

Articles in preparation

- 2018 Mucioki, M. Gathering is surviving now and long into the future: plant-people relationships in Klamath River Basin of Northern California and Southern Oregon.

Book chapters

- 2016 Mucioki, M., Johns, T., and Mucioki, S. (2016). Gendered food-and-seed-producing traditions for pearl millet (*Pennisetum glaucum* (L.) R. Br) and sorghum (*Sorghum bicolor* (L.) Moench) in Tharaka-Nithi County, Kenya. (pp 73-89). In Brownhill, L., Njuguna, E., Bothi, K.L., B. Pelletier, Muhammad, L., and Hickey, G.M. (Eds.) *Food Security, Gender and Resilience: Improving Smallholder and Subsistence Farming*. Earthscan/Routledge: Oxford, United

Kingdom.

Other publications

- 2018 Mucioki, M. *Revitalizing native food systems and supporting food security through collaborative research in the Klamath River Basin*. (2018). Forage! Blog. The Society of Ethnobiology.
- 2018 Mucioki, M., Sowerwine, J., Sarna, D, and The Karuk Tribe. (2018). *Integrating traditional and local foods into the tribal commodities program*. Policy Brief. The University of California at Berkeley and The Karuk Tribe.
- 2018 Mucioki, M., Sowerwine, J., Preston, M.D. (2018). *Making WIC more accessible to Native American families in remote regions of the middle and lower Klamath River Basin in California*. Policy Brief. The University of California at Berkeley and The Karuk Tribe.
- 2016 The Yurok Tribe, Megan Mucioki, and Jennifer Sowerwine. (2016). *Klamath Basin Food System Assessment: Yurok Tribe Data Summary*. Klamath, California and Berkeley, California: Yurok Tribe and University of California at Berkeley.
- 2016 The Karuk Tribe, Megan Mucioki, and Jennifer Sowerwine. (2016). *Klamath Basin Food System Assessment: Karuk Tribe Data Summary*. Orleans, California and Berkeley, California: Karuk Tribe and University of California at Berkeley.
- 2016 The Klamath Tribes, Megan Mucioki, and Jennifer Sowerwine. (2016). *Klamath Basin Food System Assessment: Klamath Tribes Data Summary*. Chiloquin, Oregon and Berkeley, California: Yurok Tribe and University of California at Berkeley.
- 2016 Mucioki, M (2016). Learning about your herbaria: a special collection of plants. Karuk Tribe K-12 Curriculum. Grade 8, Lesson 5.
- 2015 Mucioki, M (2015). Learning about your herbaria: a special collection of plants. Karuk Tribe K-12 Curriculum. Grade 5, Lesson 5.
- 2013 Dilbone, M. (2013). Pearl Millet Diversity in Tharaka-Nithi County, Kenya. *InRef News, KARI-McGill Innovations for Resilient Farm Systems*. Issue 3.
- 2013 Dilbone, M. (2013). Humble pine provides springtime treats. *Williams Lake Tribune, Casual Country Edition*. 93-95.

TEACHING EXPERIENCE

- 2015-present Community trainings on the Tribal Herbaria
University-Jepson Herbaria, Karuk Tribe, Yurok Tribe

- 2015-present Community food focused workshops for Native adults and youth
Karuk Tribe Orleans, CA
- 2009-2011 Ecological Processes
School of Environmental Studies, University of Victoria.
Primary instructor for labs.
- 2010 Ethnoecology
School of Environmental Studies, University of Victoria.
Teaching assistant
- 2008-2009 Plant Systematics
Biology Department. Ohio Northern University.
Teaching assistant

RESEARCH EXPERIENCE

- 2018-present **Karuk Agroecosystem Resilience and Cultural Foods and Fibers
Revitalization Initiative**
Orleans, California and Berkeley, California
Collaborative research and extension project with the Karuk Tribe
- 2015-2018 **Tribal Food Security Project**
Orleans, California and Berkeley, California
Collaborative research and extension project with three Tribes- Yurok
Tribe, Karuk Tribe, and Klamath Tribes.
- 2011-2015 **Kenya Agricultural Research Institute-McGill Food Security Project**
Montreal, Quebec and Nairobi, Kenya.
Interdisciplinary research and extension project to enhance food security in
semi-arid, rural Kenya
- 2009-2011 **Community based research with Tsilhqot'in First Nations**
Redstone Reserve, British Columbia
Case study research on the nutritional value and use of lodgepole pine
cambium, a traditional food of the Tsilhqot'in First Nations
- 2010-2011 **Sugar assay laboratory analysis**
Victoria, British Columbia
Laboratory analysis of lodgepole pine cambium samples.
- 2009 **Colibris Women's Artisan Cooperative**
Marianitas, Ecuador.
Economic development of tagua nut and community development.

GRANTS AND AWARDS

- 2018-2021 Karuk Agroecosystem Resilience and Cultural Foods and Fibers Revitalization Initiative: xúus nu'éethi – we are caring for it. AFRI-USDA grant. \$1.2 million
- 2011-2014 International Development Research Centre Canada Fellowship. \$60,000.
- 2012-2013 International Development Research Centre Canada Field Work Fellowship. \$25,000.
- 2011-2014 Graduate Excel Fellowship. McGill University. \$15,000.
- 2009-2011 Pacific Century Award. University of Victoria. \$18,000.
- 2007 Travel Grant. AustraLearn. \$1000.
- 2007 Travel Grant. Ohio Northern University. \$500.
- 2005-2009 Entrance Scholarship. Ohio Northern University. \$40,000.

CONFERENCE PAPERS

- 2016 Native Food Sovereignty in the Klamath Basin of Oregon and California. Association of Geographers Annual Meeting. (March 29-April 3). San Francisco, CA.
- 2015 Integrating western science with traditional ecological knowledge to revitalize Native food resources and wisdom. California Indian Conference (October 15-17). Berkeley, CA
- 2014 Building seed sustaining households. African CIFSRF Symposium (June 23-27). Nairobi, Kenya
- 2014 Intraspecific diversity and seed security. KARI-McGill Knowledge Integration Conference (June 19). Nairobi, Kenya
- 2013 Local seed, certified seed, and resource poor farming systems: the role of variety access and variety utilization in Tharaka County, Kenya. Semi-annual food security KARI conference (February 19). Nairobi, Kenya.

INVITED TALKS

- 2017 Klamath River Basin Food Security Assessment: Data from Karuk households. (Nov. 15). Orleans, CA
- 2016 An introduction to plant pressing. Karuk Youth Culture Camp. (August 25). Happy Camp, CA
- 2016 Ethnobotany and herbarium collections. Yurok Language Immersion Camp. (July 30). Tully Creek, CA

- 2016 Food systems assessment: preliminary results and discussion. AFRI Food Security Annual Meeting. (March 23). Klamath, CA
- 2014 An introduction to informal seed systems and seed security in Kenya. PEO International. (March 11). Granville, Ohio
- 2012 Lodgepole pine cambium: a spring treat of Chilcotin First Peoples. Introduction to Ethnoecology. (March 4). University of Victoria.
- 2011 Place based knowledge and foods of Central British Columbia. Introduction to Ethnoecology. (December 1). University of Victoria

RESEARCH SKILLS AND LANGUAGES

Community based participatory research
 Interdisciplinary research
 Extension education and programing
 Household surveys in rural areas
 Cross cultural interviews and focus groups
 Plant collection, identification, pressing and mounting
 Qualitative and quantitative data analysis
 Expert level: Nvivo, MAXQDA, Stata, SPSS, ArcGIS, MS Office
 Spanish (beginner level speaking)
 Kiswahili (beginner level speaking)
 Kitharaka (beginner level speaking)

PROFESSIONAL MEMBERSHIPS AND SERVICE

- 2018-present Contributing editor to *Forage!* by the Society of Ethnobiology
- 2017-present Peer Reviewer *Food Security*
- 2015-present Peer Reviewer *Development in Practice*
- 2015-present Student Editor *Economic Botany*
- 2011 Society of Ethnoecology Conference volunteer
 Victoria, British Columbia.
- 2008 Willing Workers on Organic Farms Volunteer
 Golden Bay, New Zealand.
- 2008 Conservation Volunteers Australia.
 Cairns, Australia.