

**LISA M. ELLSWORTH**

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**RESEARCH AND TEACHING INTERESTS**

Disturbance ecology; tropical ecology; fire science and modeling; invasive species ecology; restoration ecology; landscape ecology and modeling, social-ecological dimensions of natural resource management

**EDUCATION**

- 2012 **Ph. D.** University of Hawaii at Manoa, Natural Resources and Environmental Management. Advisor: Creighton M. Litton.  
2006 **M.S.** Oregon State University, Wildlife Science. Advisors: Boone Kauffman and Rick Miller  
2001 **B.S.** Oregon State University, Biology.

**PROFESSIONAL APPOINTMENTS**

- 2014-present **Assistant Professor, Senior Research**, Oregon State University, Fisheries and Wildlife  
2012-2014 **Postdoctoral Scholar**, Oregon State University, Fisheries and Wildlife  
2008-2012 **Graduate Research Assistant**, University of Hawaii at Manoa, NREM  
2007-2008 **Permanent Plot Network Supervisor**, USDA Forest Service and University of Hawaii, Hilo  
2006-2007 **Rangeland Ecologist**, University of Nevada, Natural Resources and Environmental Sciences  
2003-2005 **Graduate Research Assistant**, Oregon State University, Fisheries and Wildlife  
2003 **Research Technician**, Oregon State University/Centro Cientifico Tropical (Costa Rica)  
2002 **Faculty Research Assistant**, Oregon Cooperative Fisheries and Wildlife Research Unit  
2000-2002 **Laboratory Technician**, Oregon State University, Dept. of Botany and Plant Pathology  
1998-1999 **Wildland Firefighter**, Douglas Forest Patrol

**PUBLICATIONS**

- Morozumi, CN., R Mata-González, D Sanchez and **LM Ellsworth**. Vegetative responses to juniper thinning within juniper-invaded shrub-steppe in eastern Oregon. *In prep for Rangeland Ecology and Management*.
- Ellsworth, LM**, JB Kauffman, D Wroblewski, and SA Reis. Ecosystem resilience is evident 17 years after fire in intact Wyoming big sagebrush ecosystems. *In review: Ecological Applications*
- Ellsworth, LM**, AP Dale, CM Litton, and T Miura. Improved prediction of live and dead fuel moisture in invasive *Megathyrus maximus* grasslands in Hawaii using Moderate Resolution Imaging Spectroradiometer (MODIS) data. *In review: International Journal of Wildland Fire*
- Ellsworth, LM**, CM Litton, and JK Leary. 2015. Restoration impacts on fuels and fire potential in a dryland tropical ecosystem dominated by the invasive grass *Megathyrus maximus*. *Restoration Ecology* 23(6): 955-963
- Evans, EW, **LM Ellsworth**, and CM Litton. 2015. Impact of grazing on fine fuels and potential fire behaviour in a non-native tropical grassland. *Pacific Conservation Biology* 21(2): 126-132.
- Beschta, RL, JB Kauffman, DS Dobkin, and **LM Ellsworth**. 2014. Long-term livestock grazing alters aspen age structure in the northwestern Great Basin. *Forest Ecology and Management* 329: 30-36.
- Ellsworth, LM**, CM Litton, AP Dale, and T Miura. 2014. Invasive grasses change landscape structure and fire behaviour in Hawaii. *Journal of Applied Vegetation Science* 17(4): 680-689.
- Ellsworth, LM**, CM Litton, AD Taylor and JB Kauffman. 2013. Spatial and temporal variability in *Megathyrus maximus* grasslands on Oahu, Hawaii. *International Journal of Wildland Fire* 22:1083-1092.
- Bergstrom, R, R Caddell, MW Chynoweth, **LM Ellsworth**, S Henly-Shepard, DK Iwashita, CA Lepczyk, and K Miller. 2013. A review of solutions and challenges to addressing human population growth

- and global climate change. *The International Journal of Climate Change: Impacts and Responses* 4(3): 147-172.
- Ellsworth, LM** and JB Kauffman. 2013. Seedbank responses to spring and fall prescribed fire in mountain big sagebrush ecosystems of differing ecological condition at Lava Beds National Monument, California. *Journal of Arid Environments* 96: 1-8.
- Ammond, S AE, CM Litton, **LM Ellsworth**, and JK Leary. 2012. Restoration of native plant communities in a Hawaiian dry lowland ecosystem dominated by the invasive grass *Megathyrus maximus*. *Journal of Applied Vegetation Science* 16(1): 29-39.
- Ellsworth, LM** and JB Kauffman. 2010. Native bunchgrass response to prescribed fire in ungrazed mountain big sagebrush ecosystems. *Fire Ecology* 6(3): 86-96.

#### **PROFESSIONAL AFFILIATIONS**

- |  |   |
|--|---|
| Society for Range Management (SRM)     | Ecological Society of America (ESA)               |
| The Wildlife Society (TWS)             | International Association of Wildland Fire (IAWF) |
| The Association for Fire Ecology (AFE) | Society for Ecological Restoration (SER)          |

#### **GRANT FUNDING**

- Ellsworth, LM**, A Beavers, S Cordell, C Hoffman, CM Litton, and C Trauernicht. 2016. Dryland forest restoration and fuels management in grass invaded Hawaiian ecosystems: Beyond the initial DoD investment. Strategic Environmental Research and Development Program (SERDP) \$281,654 (pending)
- Olsen, CS, **LM Ellsworth**, K Lindberg, J Tilt, O-P Kuusela, P Hystad, K Olsen. 2016. Tools for integrating human health and well-being into wildfire mitigation and community planning. Environmental Protection Agency Science to Achieve Results (EPA STAR) \$600,000 (pending)
- Kauffman, JB, D Bell, **LM Ellsworth**, J Kertis, and S Acker. 2016. Post-fire landscape management and fire severity influences in Western Oregon forests. Joint Fire Science Program \$321,138
- Sanchez, D and **LM Ellsworth**. 2016. Post-treatment Recovery of Mule Deer Habitat in Juniper-Invaded Sagebrush-Bitterbrush Ecosystems. Oregon Department of Fish and Wildlife \$491,833
- Ellsworth, LM**, and JB Kauffman. 2014. Long-term impacts of wildfire on fuel loads, vegetation composition, and potential fire behavior and management in sagebrush-dominated ecosystems. Joint Fire Science Program \$375,223
- Jetter, A, S Gray, and **LM Ellsworth**. 2014. Policy scenarios for fire-adapted communities: Understanding stakeholder risk - perceptions by measuring mental models using Fuzzy Cognitive Maps. Joint Fire Science Program. \$181,092
- Kauffman, JB, **LM Ellsworth**, and WH Pyle. 2013. An Analysis of Long-term Recovery Following Implementation of Passive and Active Restoration: Ecosystem Responses of Livestock Removal and Fire Management at the Sheldon Hart Mountain National Wildlife Refuge Complex. Greater Sheldon-Hart Conservation Fund. \$250,000.
- Ellsworth, LM** and CM Litton. 2010. Improved wildfire prediction using remote sensing technology on military grasslands in Hawaii. Department of Defense-Legacy Resource Management Program. \$48,227.
- Ellsworth, LM**. 2010. Improved wildfire prediction using remote sensing technology on guinea grasslands in Hawaii. Joint Fire Sciences Graduate Research Innovation Award. \$24,967

#### **INVITED PRESENTATIONS**

- Ellsworth, LM**. 2016. Fire in the sagebrush steppe: 21st century challenges, successes, and opportunities. Central Oregon Prescribed Fire Symposium. Bend, OR
- Ellsworth, LM**. 2010. Fire and Grass Invasion in Hawaii's Dry Forests. Nahele Dry Forest Symposium, Kailua-Kona, HI.
- Ellsworth, LM**, CM Litton, and JB Kauffman. 2010. Temporal Monitoring of Guinea Grass Fuel Loads for Improved Fire Prediction. Western Society of Weed Science Symposium, Kailua-Kona, HI.

- Ellsworth, LM** and JB Kauffman. 2006. Effects of Spring and Fall Prescribed Fire on Plant Community Composition and Native Bunchgrass Density and Reproductive Effort. Nevada Wildland Fire Conference. Desert Research Institute. Reno, NV.
- Ellsworth, LM** and JB Kauffman. 2006. Interactions of burn season and ecological condition on vegetation response to fire at Lava Beds National Monument. Natural Resources and Environmental Sciences Departmental Seminar. University of Nevada. Reno, NV.
- Ellsworth, LM**, JB Kauffman, and J Wilson. 2004. Vegetation Response to Prescribed Burning at Lava Beds National Monument. Lava Beds National Monument, CA.

**SELECT PRESENTATIONS (1<sup>ST</sup> AUTHOR ONLY)**

- Ellsworth, LM**, SA Reis, JB Kauffman, W Pyle, and D Wroblewski. 2015. Mid-Succession Fire Effects in the Sagebrush Steppe. 6th International Fire Ecology & Management Congress. San Antonio, TX
- Ellsworth, LM**, JB Kauffman, SA Reis, W Pyle, D Sapsis, and D Wroblewski. 2015. Long Term Fire Effects on Vegetation Composition and Fuel Loads in Sagebrush-dominated Ecosystems. Restoring the West Conference. Logan, UT
- Ellsworth, LM**, JB Kauffman, SA Reis, and W Pyle. 2014. Passive Restoration in Sagebrush Ecosystems at Hart Mountain National Antelope Refuge, Oregon. Society for Ecological Restoration Regional Meeting. Redmond, OR.
- Ellsworth, LM** and JB Kauffman. 2014. Effects of Livestock Removal in Sagebrush Ecosystems at Hart Mountain National Antelope Refuge, Oregon. Ecological Society of America Annual Meeting. Sacramento, CA.
- Ellsworth, LM** and JB Kauffman. 2014. Passive Restoration in Sagebrush Ecosystems at Hart Mountain National Antelope Refuge, Oregon. Central Oregon Prescribed Fire Conference. Bend, OR.
- Ellsworth, LM** and JB Kauffman. 2013. Effects of Livestock Removal in Sagebrush Ecosystems at Hart Mountain National Antelope Refuge, Oregon. Great Basin Consortium Conference. Reno, NV.
- Ellsworth, LM** and JB Kauffman. 2013. Effects of Livestock Removal in Sagebrush Ecosystems at Hart Mountain National Antelope Refuge, Oregon. Restoring the West Conference. Logan, UT.
- Ellsworth, LM**, AP Dale, CM Litton, and T Miura. 2012. Improved prediction of fuel moisture in invasive guinea grasslands in Hawaii using MODIS data. Association for Fire Ecology and Management Congress. Portland, OR.
- Ellsworth, LM**, CM Litton, AP Dale, and T Miura. 2012. Changes in land cover and fire risk associated with nonnative grass invasion in Hawaii. Ecological Society of America, Portland, OR.
- Ellsworth, LM**, CM Litton, AP Dale, and T Miura. 2012. Changes in land cover and fire risk associated with nonnative grass invasion in Hawaii. Hawaiian Conservation Conference. Honolulu, HI.
- Ellsworth, LM**, CM Litton and JB Kauffman. 2011. A custom fuel model for improving wildfire prediction in nonnative guinea grasslands (*Megathyrsus maximus*) in Hawaii. Ecological Society of America, Austin, TX.
- Ellsworth, LM**, CM Litton and JB Kauffman. 2011. A custom fuel model for improving wildfire prediction in nonnative guinea grasslands (*Megathyrsus maximus*) in Hawaii. Hawaiian Conservation Conference. Honolulu, HI.
- Ellsworth, LM**, CM Litton and JB Kauffman. 2011. A custom fuel model for improving wildfire prediction in nonnative guinea grasslands (*Megathyrsus maximus*) in Hawaii. CTAHR Research Symposium. Honolulu, HI. **Winner: NREM Best PhD Student Oral Presentation**
- Ellsworth, LM**, CM Litton and JB Kauffman. 2010. Using soil moisture and antecedent weather to predict live and dead fuel moisture in nonnative guinea grasslands (*Urochloa maxima*) on the Island of Oahu, Hawaii. Ecological Society of America Annual Meeting, Pittsburgh, PA.
- Ellsworth, LM**, S Ammond, L Deignan, CM Litton, and JB Kauffman. 2010. Managing the Grass-Wildfire Cycle in Nonnative-Dominated Grassland Ecosystems of Leeward Oahu, Hawaii. Hawaiian Conservation Conference. Honolulu, HI.
- Ellsworth, LM**, CM Litton, and JB Kauffman. 2010. Improved fire prediction on Oahu's invasive grasslands. Hawaii Ecosystems Meeting. Hilo, HI.

- Ellsworth, LM**, CM Litton, and JB Kauffman. 2009. Predicting and managing fire in Oahu's non-native grasslands. Hawaii Ecosystems Meeting. Hilo, HI.
- Ellsworth, LM**, CM Litton, and JB Kauffman. 2009. Using Soil Moisture and Weather Variables to Predict Live and Dead Fuel Moisture on in Guinea Grasslands on Oahu, Hawaii. Association for Fire Ecology and Management Congress. Savannah, GA.
- Ellsworth, LM**, CM Litton, and JB Kauffman. 2009. Fuel loading and fire parameters in nonnative grasslands on military and surrounding lands on Oahu, Hawaii. Hawaiian Conservation Conference. Honolulu, HI. **Winner: Best Student Poster Presentation.**
- Ellsworth, LM**, CM Litton, and JB Kauffman. 2009. Predicting and managing fire in Oahu's non-native grasslands. Hawaii Ecosystems Meeting. Hilo, HI.
- Ellsworth, LM**, CM Litton, and JB Kauffman. 2009. Fuel loading and fire parameters in nonnative grasslands on military and surrounding lands on Oahu, Hawaii. CTAHR Research Symposium. Honolulu, HI.
- Ellsworth, LM**, CM Litton, and JB Kauffman. 2009. Predicting and managing fire in Oahu's non-native grasslands. Departmental Seminar. Natural Resources and Environmental Management. University of Hawaii at Manoa. Honolulu, HI.
- Ellsworth, LM**, JB Kauffman, and CM Litton. 2008. The Invasive Species/Wildfire Cycle: Fuel Loads, Microclimate, Fire Potential, and Fire Behavior in Nonnative Grasslands of Military and Surrounding Lands on Oahu, Hawaii. Hawaii Ecosystems Meeting: Hilo, HI.
- Ellsworth, LM**, F Inman, C Giardina, S Cordell, R Ostertag, and L Sack. 2007. Establishment of a Permanent Plot Network on the Hawaiian Islands. Hawaiian Ecosystems Meeting. Hilo, HI.
- Ellsworth, LM**, JB Kauffman, L Kellogg, A Augustine, and M Rasmussen. 2004. Decrease in *Bromus tectorum* germination following prescription fire at Lava Beds National Monument. Ecological Society of America. Portland, OR.
- Ellsworth, LM**, JB Kauffman, L Kellogg, A Augustine, and M Rasmussen. 2004. Interactions of burn season and ecological condition on ecosystem response to fire at Lava Beds National Monument: Information necessary for restoration and postfire rehabilitation. Joint Fire Sciences Conference. Phoenix, AZ.

#### **TEACHING EXPERIENCE**

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|-----------|---|
| 2016      | Instructor. <i>Plant Ecology</i> (BOT 341)  |
| 2016      | Instructor. <i>Endangered Species, Society, and Sustainability</i> (FW 350)<br>Taught as part of OSU Studies Abroad – Chile Program |
| 2015      | Guest Lecturer. <i>Avian Conservation</i> (FW 451/541)  |
| 2015      | Instructor. <i>Field Sampling</i> (FW 255)  |
| 2015      | E-campus Instructor. <i>Wildland Fire Ecology</i> (FOR 446)   |
| 2014-2015 | Co-Instructor. <i>Wildland Fire Ecology</i> (FOR/FW/RNG 446/546)  |
| 2014      | Guest Lecturer. <i>Wildland Plant Identification</i> (RNG 353)  |
| 2012      | Instructor. <i>Ecology and Evolutionary Biology Lab</i> (BIO 254L)  |
| 2011      | Guest Lecturer. <i>Grant Writing for Graduate Students</i> (FSHN 657)   |
| 2011      | Teaching Assistant and Guest Lecturer. <i>Applied Forest Ecology</i> (NREM 480)   |
| 2010      | Teaching Assistant and Guest Lecturer. <i>Wildlife Management Techniques</i> (NREM 491)   |
| 2007      | Guest Lecturer. <i>Ecology and Management of Invasive Species</i> (NRES 441/641)  |
| 2005      | Teaching Assistant. <i>Wildland Fire Ecology</i> (FW 446)   |

#### **OTHER TRAINING AND SERVICE ACTIVITIES**

- Graduate Advising: L. Schyler (Ph.D. Fisheries and Wildlife); S. Reis (M.S. Fisheries and Wildlife); D. Marvin (PSM Fisheries and Wildlife); C.Reed-Dustin (M.S. Animal and Rangeland Science)
- Department of Fisheries and Wildlife Graduate Admissions Committee
- Rogue Basin “Bringing Back Fire”: Collaborative extension workshops with fire managers, researchers, and policy makers.

- BRR undergraduate student advisor
- Session organizer: Ecological Society of America 2014 Annual Meeting
- Have supervised and trained over 40 interns, technicians, and student workers in various aspects of field sampling, sample and data processing, GIS mapping, and remote sensing
- Led the planning of departmental research symposium and training workshops
- Pacific Fire Exchange: Knowledge exchange stakeholder workshops on wildfire science needs

**JOURNAL REVIEWER**

*Rangeland Ecology and Management; Applied Vegetation Science; Botany; Ecosphere; Journal of Arid Ecosystems; Journal of Soil Science and Environmental Management; Forestry; Animal Conservation; Journal of Ecology and Natural Environment*