

## MICHELLE M. STEEN-ADAMS, Ph.D., M.Ed.

### Research Associate

School of the Environment  
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### EDUCATION

- Ph.D. **University of Wisconsin-Madison** - Forest Ecology and Management and Environmental Studies ([Joint Degree](#)) 2005.  
Fields: Environmental history, Social Forestry/ Rural Sociology, Landscape Ecology  
Dissertation: *Change on a northern Wisconsin landscape: Legacies of human history*  
Advisors: Nancy Langston, David J. Mladenoff  
Dissertation committee: Mark Rickenbach, Sarah Hotchkiss, Ray Guries
- M.S. **University of Wisconsin-Madison**, Environmental Studies. 2000.  
Thesis: *Investigating Ecological Change using Environmental History: A Case Study of the Fremont Cottonwood (Populus fremontii) Population in Zion Canyon, Zion National Park, Utah*  
Advisor: Nancy Langston. Thesis committee members: Emily Stanley, Kenneth Potter
- M.Ed. **Lesley University**, Middle School Education  
Practicum: The Shady Hill School, Cambridge, MA
- B.A. **Swarthmore College**, Art History

### Expertise

- Forest history; environmental history
- Forest landscape governance; partnerships – U.S. Forest Service and Tribes; natural resources policy; Federal Indian law
  - Applications to wildfire management; insect disturbance; climate change
- Tribal forest management – forest & food systems; Indigenous and Traditional Knowledge Systems
- Qualitative methods: Case study and participatory methods; knowledge co-production
- Archival data resources for ecological applications; Spatial analysis of historical data
- Landscape ecology – social dimensions; historical ecology
- Coupled Human and Natural Systems
- Environmental justice; Diversity, Equity, & Inclusion (DEI) in private land conservation; land trusts

### APPOINTMENTS

- Research Associate, School of the Environment, Washington State University Vancouver (2022 - present)
- Lecturer, School of the Environment, Washington State University (2022)
- Adjunct / Graduate Faculty, School of the Environment, Washington State University (2021 -present)
- Adjunct Faculty, Washington State University Vancouver (Summer, 2020)
- Project Manager (via contract) Affiliated Tribes of Northwest Indians (2020)
- Courtesy Research Associate, Institute for a Sustainable Environment, University of Oregon (2019 - present)
- Research Associate, Institute for a Sustainable Environment, University of Oregon (2018)
- Visiting Scientist, Pacific Northwest Research Station, Forest Service (2012 - 2019, intermittent)
- Associate Professor of Environmental Studies, University of New England (2012 - 2017)
  - Assistant Chair (2015 – 2016)
- Assistant Professor of Environmental Studies, University of New England (2005- 2012)
- Research Assistant, Department of Forest Ecology and Management, University of Wisconsin-Madison (2003-2005)
- National Science Foundation - Integrative Graduate Education Research Trainee (IGERT) (1999-2003)
- Peace Corps Volunteer (Mali, 1994-1996)

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## RESEARCH

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### **PUBLICATIONS**

#### **Peer-reviewed journal articles in review or revision**

25. **Steen-Adams, M.M.**, Himel, M., Judd, R., Meine, C., Cresap, S., Siler, A., Michels, K., Sutton, T., Middleton Manning, E., Johnson, K., Milanovich, S., Sutton, A., Carlson, H., Ranco, D., Cook, S. Private land conservation, land justice, and activism in environmental history: an interdisciplinary, practitioner – scholar Forum. In revision, *Environmental History* (submitted: 8/2/22).

#### **Peer-reviewed publications, published and in press**

24. **Steen-Adams, M.M.**, Lake, F.K., Jones, C., Kruger, L. Partnering on Research about Land Management with Tribal Nations: Perspectives from the Pacific West, General Technical Report, Pacific Southwest Research Station (GTR-PSW-275), US Forest Service (copy-edited report paused - review by Washington Office (WO), 12/5/21; resubmitted to WO, 2/25/22; copy edit submissions: 11/1/22, 12/21/22), in press.

23. **Steen-Adams, M.M.**, Charnley, S., and Adams, M.D. 2023. Cross-boundary cooperative wildfire management: Insights from a historical case study of U.S. Forest Service partnerships in the eastern Cascades of Oregon, USA, 1905-1945, *Land Use Policy*, <https://doi.org/10.1016/j.landusepol.2023.106550>.

22. Meddens, A.J.H., **Steen-Adams, M.M.**, Hudak, A., Mauro, F., Byassee, P.M., Strunk, J. 2022. Specifying geospatial data product characteristics for forest and fuel management applications, *Environmental Review Letters*. 17, 045025, <https://doi.org/10.1088/1748-9326/ac5ee0>.

21. **Steen-Adams, M.M.**, Abrams, J.B., Huber-Stearns, H.R., Bone, C. Moseley, C. 2021. Leveraging administrative capacity to manage landscape-scale, cross-boundary disturbance in the Black Hills: What roles for federal, state, county and non-governmental partners? *Journal of Forestry* 120(1):86-105, <https://doi.org/10.1093/jofore/fvab043>.

20. Abrams, J.B., Huber-Stearns, H.R., **Steen-Adams, M.M.**, Davis, E.J., Nelson, M.F., Bone, C., Moseley, C. 2020. Adaptive governance in a complex social-ecological context: Emergent responses to a native forest insect outbreak, *Sustainability Science*, 16:53-68, <https://doi.org/10.1007/s11625-020-00843-5>.

19. **Steen-Adams, M.M.**, Abrams, J.B., Huber-Stearns, H.R., Moseley, C., Bone, C. 2020. Local-level transitions toward network governance within the U.S. Forest Service: A case study of mountain pine beetle epidemic from Colorado, USA, *Forest Policy and Economics* 118:102204, <https://doi.org/10.1016/j.forpol.2020.102204>.

18. **Steen-Adams, M.M.**, Charnley, S., McLain, R.J., Adams, M.D., Wendel, K.L. 2019. Traditional knowledge of fire use by the Confederated Tribes of Warm Springs in the eastside Cascades of Oregon, *Forest Ecology and Management* 450:117405, <https://doi.org/10.1016/j.foreco.2019.06.002>.

17. **Steen-Adams, M.M.**, Charnley, S., Adams, M.D. 2017. Historical perspective on the influence of wildfire policy, law, and informal institutions on management and forest resilience in a multiownership, frequent-fire, coupled human and natural system in Oregon, USA. *Ecology and Society* 22(3):23, <https://doi.org/10.5751/ES-09399-220323>.

16. Kline, J. D., White, E.M., Fischer, A.P., **Steen-Adams, M.M.**, Charnley, S. Olsen, C.S. Spies, T.A. and Bailey, J.D. 2017. Integrating social science into empirical models of coupled human and natural systems. *Ecology and Society* 22(3):25, <https://doi.org/10.5751/ES-09329-220325>.

15. Spies, T.A., White, E.M., Ager, A.A., Kline, J.D., Bolte, J.D., Platt, E.K., Olsen, K., Pabst, R.J., Barros, A.M.G., Bailey, J.D., Charnley, S., Koch, J., Morzillo, A.T., **Steen-Adams, M.M.**, Sulzman, J., Schwartz, C., Singleton, P.H., Csuti, B. 2017. Using an agent-based model to examine alternative futures of fire and ecosystem services in a multi-ownership landscape in Oregon. *Ecology and Society* 22(1):25, <https://doi.org/10.5751/ES-08841-220125>.
14. Fisher, A.P., Spies, T.A., Steelman, T.A., Mosely, C., Johnson, B.R., Bailey, J.D., Ager, A.A., Bourgeron, P., Charnley, S., Collins, B.M., Kline, J.D., Leahy, J.E., Littell, J.S., Millington, J.D.A., Nielsen-Pincus, M., Olsen, C.S., Paveglio, T.B., Roos, C.I., **Steen-Adams, M.M.**, Stevens, F.R., Vukomanovic, J., White, E.M., Bowman, D.M.J.S., 2016. Wildfire risk as a socio-ecological pathology, *Frontiers in Ecology and the Environment* 14(5):276-284.
13. **Steen-Adams, M.M.**, Langston N.E., Adams M.D., Mladenoff, D.J. 2015. Historical framework to explain long-term coupled human and natural system (CHANS) feedbacks: Application to a multiple-ownership landscape in the northern Great Lakes region, USA, *Ecology and Society* 20(1):28, <http://www.ecologyandsociety.org/vol20/iss1/art28/>.
12. Feng, X., **Steen-Adams, M.M.**, Zhu, J. 2015. On regression analysis of spatial proportional data with zero/ one values, *Spatial Statistics* 14:452-471, <https://doi.org/10.1016/j.spasta.2015.07.007>.
11. Spies T., White E., Kline J.D., Fisher A.P., Ager A., Bolte J., Koch J., Platt E.K., Olsen C., Jacobs D.B., Shindler B., **Steen-Adams M.M.**, Hammer, R., 2014. Fire-Prone Forest landscapes as coupled human and natural systems, *Ecology and Society* 19(3):9. DOI 10.5751/ES-06584-190309
10. Feng X., Zhu, J., Lin, P.S., **Steen-Adams, M.M.**, 2014. Composite likelihood estimation for spatial ordinal data and spatial proportional data with zero/one inflation, *Environmetrics* 25(8):571-583.
9. Fu R., Thurman, A.L., Chu, T., **Steen-Adams, M.M.**, Zhu, J., 2013. Fast estimation and selection of autologistic regression models via penalized pseudo-likelihood, *Journal of Agricultural, Biological, and Ecological Statistics* 18(3):429-449.
8. Jin C., Zhu J., **Steen-Adams M.M.**, Sain S.R., Gangnon R.E., 2013. Spatial Multinomial Regression Models for Nominal Categorical Data: A Study of Land Cover in Northern Wisconsin, USA, *Environmetrics* 24(2):98-108.
7. **Steen-Adams M.M.**, Mladenoff D.J., Langston N.E., Liu F., Zhu J., 2011. Influence of biophysical factors and differences in Ojibwe reservation versus Euro-American social histories on forest landscape change in northern Wisconsin, USA. *Landscape Ecology* 26(8):1165-1178, DOI 10.1007/s10980-011-9630-2
6. Clark, S.G., **Steen-Adams M.M.**, Wallace, R., Pfirmann, S. 2011. Professional development of interdisciplinary environmental scholars. *Journal of Environmental Studies and Sciences* 1(2):99-113.
5. Woodworth B.L., **Steen-Adams M.M.**, and Mittal P., 2011. Role of an environmental studies course on the formation of environmental worldviews: A case study of a core curriculum requirement using the NEP scale, *Journal of Environmental Studies and Sciences* 1(2):126-137.
4. **Steen-Adams, M.M.**, Langston, N.E., and Mladenoff, D.J., 2010. Logging the Great Lakes Indian reservations: The Case of the Bad River Band of the Ojibwe, *American Indian Culture and Research Journal* 34(1):41-66.
3. **Steen-Adams M.M.**, Langston N.E., and Mladenoff D.J. 2007. White pine in the northern forests: An ecological and management history of white pine on the Bad River Reservation of Wisconsin. *Environmental History* 12(3): 614-648.
2. Hale, B.W., **Steen-Adams M.M.**, Predick K.A., Fisher N. 2005. Ecological conservation through aesthetic landscape planning: A case study of the Lower Wisconsin State Riverway. *Environmental Management* 35(4): 381-395.

1. **Steen-Adams M.M.** 2002. Applications of environmental history to restoration ecology: A case study from Zion National Park. *Ecological Restoration* 20(4):252-261.

#### **Peer-reviewed publications in preparation**

**Steen-Adams, M.M.** Stahl, A., Andrus, R., Franz, M., Meddens, A.J.H. *Decision Support Tools for post-fire natural and cultural resource management in multi-ownership landscapes in dry mixed conifer forests in the USA.*

**Steen-Adams, M.M.,** Himel, M., Judd, R., Meine, C., Landis, C., Cook, S., Michels, K. Siler, A., Cresap, S., Sutton, T., Carlson, H., Middleton Manning, E., Ranco, D., et al. *Finding a stewardship ethic in private land conservation: stories of disrupted land tending and the search for repair across North America* (working title), book proposal (draft proposal, 5/30/22).

#### **BOOK REVIEWS**

6. Steen-Adams, M.M. Indians, Fire, and the Land in the Pacific Northwest. R.T. Boyd, editor. 2021 (New Edition). Corvallis: Oregon State University Press. *Northwest Science*. In preparation.

5. Steen-Adams, M.M. 2022. A Place for Inquiry, A Place for Wonder: The Andrews Forest. W. Robbins. 2020. Corvallis: Oregon State University Press. *Western Historical Quarterly*, whac 023. <https://doi.org/10.1093/whq/whac023>

4. Steen-Adams, M.M. 2021. After the Blast: The Ecological Recovery of Mount St. Helens. E. Wagner. 2020. Seattle: University of Washington Press. *Oregon Historical Quarterly* 122(1):87-88.

3. Steen-Adams, M.M. 2016. Burning Table Mountain: An Environmental History of Fire on the Cape Peninsula. S. Pooley. 2014. New York: Palgrave. *Environmental History* 21(4):766-768.

2. Steen-Adams, M. 2009. The American people and the national forests: The first century of the U.S. Forest Service, S. Hays, 2009. Pittsburgh: University of Pittsburgh Press. *Journal of Tourism History*, 1:2, 166-168.

1. Steen-Adams, M., 2002. War and Nature: Fighting Humans and Insects with Chemicals from World War I to Silent Spring. E. Russell, Cambridge University Press, Cambridge, UK and New York, New York, USA. *Conservation Ecology* 6(2):1.

#### **Briefing papers, reviews, reports, and non-peer-reviewed publications**

9. Karns, J., **Steen-Adams, M.M.**, Witness to forest fires: The life of Harold K. Weaver, *Forest History Today*, in press.

8. Affiliated Tribes of Northwest Indians, 2020 (December). Policy Summaries: [Agriculture](#); [Community Resilience](#); [Environmental Justice & Health](#); [Resilient Ecosystems](#); [Clean Energy Transition](#), [Clean Energy Infrastructure](#) [Fairer Economy](#); [Institutions](#) (lead-author to corporate authorship products, with C. Jones, E. Sherman, K. Lynn and D. Sampson).

7. Affiliated Tribes of Northwest Indians, 2020 (November). [Briefing Paper](#): *Tribal Perspectives on Proposed Policies in the Congressional Action Plan on the Climate Crisis* [lead-author to corporate authorship product, with C. Jones, E. Sherman, K. Lynn and D. Sampson].

6. **Steen-Adams, M.M.**, Sampson, D., Jones, C.E., Lynn, K., Mankowski, J., et al., 2020 (September). [Tribal Review of the Congressional Action Plan on the Climate Crisis](#), [Executive Summary](#) (8 pp.); [Full Report](#) (80 pp.); Affiliated Tribes of Northwest Indians.

5. Bureau of Indian Affairs – Tribal Climate Resilience Team, 2020 (May). *Appendix B - Tribal Communities in the Contiguous United States: Unmet Infrastructure Needs and the Recommended Pathway to Address a Fundamental Threat to Lives, Livelihoods, and Cultures*, pp. 49 – 69, 133 – 152 in *Informational Report: The Unmet Infrastructure Needs of Tribal Communities and Alaska Native Villages in Process of Relocating to Higher Ground as a Result of Climate Change*, Albuquerque, NM [[here](#)] [Response to request of House of Representatives Report 116-100, Dept. of the Interior, Environment, and Related Agencies Appropriations Bill, 2020] [co-author to corporate authorship product: **Steen-Adams, M.M.**, Jones, C.E., Whorton, E.], 108 pp.
4. **Steen-Adams, M.M.** and MacCleery, D.W., 2020 (April). *Approaches to strengthening inclusivity in the Forest History Society Program* [Report: Results of the Inclusivity Survey of the FHS Board; Recommendations and Motions to the FHS Board], Forest History Society Board Book, Durham, N.C., 31 pp.
3. Davis, E.J., Huber-Stearns, H., Abrams, J., **Steen-Adams, M.M.**, Moseley, C., Ellison, A. 2019. *Regional approaches for addressing the mountain pine beetle outbreak on US Forest Service lands*, [Working Paper Number 93](#), Ecosystem Workforce Program, University of Oregon.
2. Davis, E.J., Huber-Stearns, H., Abrams, J., **Steen-Adams, M.M.**, Bone, C. Moseley, C., Ellison, A. 2019. *Strategies for addressing mountain pine beetle outbreaks on national forests*, [Briefing Paper Number 86](#), Ecosystem Workforce Program, University of Oregon.
1. **Steen-Adams, M.** (2011) Search and Hiring in Pfirrmann, S., Martin P., Danielson A., Goodman R.M., **Steen-Adams M.**, Waggett C., Mutter J., Rikakis T., Fletcher M., Berry L., Hornbach D., Hempel M., Morehouse B., Southard R., *Interdisciplinary Hiring and Career Development: Guidance for Individuals and Institutions*, The Council of Environmental Deans and Directors of the National Council for Science and the Environment (NCSE). (April 2011).

#### **CLIENT and COMMUNITY PRODUCTS**

3. **Steen-Adams, M.**, Anderson, S., Bissonette, L., Hersey, M., Himel, M., Cook, S., Meares, L., Cagle, N., Mindlin, L., Livingston, F., McCourt, P., Smith, N., Thomas, K.S., Lehman, E., MacCleery, D. *User Guide: Educational Resource Catalogue on the History of Land Conservation*, Land Trust Alliance, Washington D.C. (*internal product for the Land Trust Alliance, submitted 7/8/21*).
2. **Steen-Adams, M.**, Hersey, M., Himel, M., Bissonette, L., Cook, S., Meares, L., Mindlin, L., Livingston, F., McCourt, P., Smith, N., Thomas, K.S., Anderson, S., Lehman, E., and Cagle, N. *Educational Resource Catalogue on the History of Land Conservation*, Land Trust Alliance, Washington D.C. (*internal product for the Land Trust Alliance, submitted 7/1/21*).
1. **Steen-Adams, M.M.** and Wendel, K.L., with Charnley, S. 2017. *Traditional tending of cultural resources: Ethnohistorical images of the Confederated Tribes of Warm Springs from the D. and K. French Collection, 1950-1956* [product for the Confederated Tribes of Warm Springs community] Pacific Northwest Research Station, Portland, Oregon.

#### **EXTRAMURUAL AND INTRAMURAL FUNDING**

8. National Science Foundation, Archaeology Program. *Collaborative Research: The nexus of long-term human pyrogeography, environmental change, and climate in the high-elevation social-ecological systems of Washington's Cascade Range* (submitted, December, 2022). \$300,000 (Steen-Adams Lab - \$67,986 (2023 – 2026). PI: G. Snitker; Co-I's: S. Bergin, M. Steen-Adams, M. Walsh. (In review.)

7. National Administration for Space Administration (NASA). *A Phase 3 CMS that disaggregates forest biomass estimates in response to stakeholder needs: Seeing the forest for the trees*. Response to NASA Solicitation: Carbon Monitoring Systems (NNH22ZDA001N-CMS). \$907,240 (submitted, October, 2022). Steen-Adams Lab - \$59,660 (2023 – 2026). PI: A. Hudak, Co-I's: C. Bobcock, G. Domke, J. Greenburg, V.R. Kane, R. Kennedy, F. Mauro, A. Meddens, C. Sliva, M. Steen-Adams, J. Vogeler, et al. (In review.)
6. Northwest Climate Adaptation Science Center, U.S. Geological Survey: *A multi-level decision support platform for adaptive management of post-fire landscapes*. \$349,766 (funded); Steen-Adams Lab - \$157,030 (3-year period). PIs: A.J.H. Meddens, M.M. Steen-Adams; co-PIs: R. Andrus, A. Stahl. 2021.
5. National Science Foundation: *Artificial Intelligence EARly Concept Grants for Exploratory Research (AI-DCL: EAGER) - Participatory data practices and the embodied field notebook*. \$290,000 (not funded). M. Bohlen, D. Nafus, E.D. Henderson, V. Chandola, M.M. Steen-Adams. 2019.
4. USDA Forest Service, Pacific Northwest Research Station (PNWRS): *Reconstructing historical fire regimes and vegetation conditions on tribal lands using ecological and anthropological data*. \$100,000 (\$50,000 (2014); \$50,000 (2015)). (Internal competitive USFS PNWRS funding, and other internal sources). Co-investigators: K. Hagmann, P. Hessburg, S. Charnley, M.M. Steen-Adams, B. Salter). 2014-2015.
3. USDA Forest Service, Pacific Northwest Research Station: *Environmental History of Fire-Prone Ecosystems across Ownerships in the Eastern Oregon Cascades (1905-2010)*. Joint Venture Agreement between USDA Forest Service and University of New England. \$100,200 (\$50,000 (2011); \$12,200 (2012); \$40,000 (2013)). (co-investigator with S. Charnley). 2011 - 2013.
2. University of New England, Center for Land-Sea Interactions: *Characterization of baseline land-cover structure (1962) and land-cover change (1962-2001) of the Saco River Watershed coastal zone: Implications for watershed health*. \$5,000. (Internal competitive funding.) M.M. Steen-Adams, M.D. Adams. 2011.
1. University of New England, College of Arts and Sciences Dean's Mini-Grant: *Effects of the Coastal Zone Management Act (CZMA) on demographic and land use change in coastal northern New England, 1960-2000*. \$2,000. (Internal competitive funding.) 2010.

## **CONTRACTS**

Investigating the level of technical ability and data characteristics needs of geospatial data users for natural resources management and ecological research. \$4,000. 2023 (Spring). Contribution to: NASA Carbon Monitoring Systems Continuing Prototype Development (CMS): A bottom-up, stakeholder-driven CMS for regional biomass carbon dynamics: Phase 2 (NNH18ZDA001N). \$1,113,959 (2020 - 2022). (PI: A. Hudak, Co-PIs: A. Meddens, C. Babcock, G. Domke, V. Kane, R. Kennedy, J. Vogeler, J. Strunk.

## **GRANTS AND CONTRACTS to STEEN-ADAMS ET AL. AS PRIVATE CONSULTANT**

8. Land Trust Alliance: *History of Land Conservation Short Course*. (funded, details on-file.) Team Lead: M.M. Steen-Adams. Contributors: S. Cook, S. Howard, J.P. Williams. Reviewers: E. Middleton Manning, M. Himel, W. Ward. 2022 - 2023.
7. *Private Land Conservation, Land Justice, and Environmental History Working Group: Enabling dialogue about the past, present, and future of private land conservation*. \$152,000 (partially funded: \$15,350, via Forest History Society fund-raising with private donors). M.M. Steen-Adams, M. Himel, S. Anderson, et al. December, 2021.
6. The Land Trust Alliance: *Research in Support of History of Public and Private Land Conservation Curriculum*. (funded, details on-file) M.M. Steen-Adams, S. Anderson, S. Cook, M. Hersey, N. Cagle, D.W. MacCleery, et al. 2020 - 2021.
5. Affiliated Tribes of Northwest Indians: *Project management of Tribal Climate Action Plan*. (funded, details on-file, 2020 (August) - 2021 (January)).

4. Affiliated Tribes of Northwest Indians, *Support for developing report to Congress: Unmet Infrastructure Needs in Tribal Communities Facing Relocation, Managed Retreat*. (funded, details on-file) 2020.
3. USDA Forest Service, Pacific Southwest Research Station: *Best practices for partnerships with American Indians and Alaska Natives in Research and Land Management*. (funded, details on-file) (F.K. Lake, sponsor/ collaborator). 2019- 2021.
2. USDA Forest Service, Pacific Northwest Research Station: *Managing for first foods: Returning human-adapted ecosystems to the Northwest* (funded, details on-file) (C. Harrington, sponsor) 2019.
1. USDA Forest Service, Pacific Northwest Research Station: *Historical precedents in cooperative wildfire management across federal, tribal, and private ownerships* (funded, details on file) (S. Charnley, sponsor) 2017 - 2020.

### **PROPOSALS-IN-DEVELOPMENT: EXTRAMURUAL AND INTRAMURAL FUNDING**

National Science Foundation, Climate-Based Human Migration Project. Washington State University. M. Goldsby, J. Boll, D. Singh, et al.

### **PRESENTATIONS (works since 2013 listed; 30+ presentations)**

#### **INVITED SCIENTIFIC PRESENTATIONS**

11. Steen-Adams, M.M. *Traditional knowledge of fire use by the Warm Springs Tribes in the eastside Cascades: opportunities and best practices in applying traditional knowledge*, University of Washington Botanical Symposium, March 2, 2022.
10. Steen-Adams, M.M., Charnley, S., McLain, R.J., Wendel, K.L., Adams, M.D., *The role of ethnohistory, traditional knowledge, and cultural fire regimes in first foods management: applications to Vaccinium membranaceum in the eastside Cascades*, Northwest Scientific Association Spring 2021 Biweekly Seminars, March 25, 2021.
9. Steen-Adams, M.M., Charnley, S., McLain, R.J., Wendel, K.L., Adams, M.D. *Traditional Knowledge of fire use by the Tenino, Kitsht Wasco, and Numu peoples*, USDA Forest Service Region 6 Annual Heritage Team Meeting, March 11, 2021.
8. Steen-Adams, M.M., *Forging and Maintaining Tribal Partnerships in Research and Management: an example of the U.S. Forest Service and the Confederated Tribes of Warm Springs*, SOE 438. Washington State University- Pullman, February 11, 2021.
7. Steen-Adams, M.M., *Forging and Maintaining Partnerships with Tribes in Forestry Research and Management* Washington State University Forestry Group, December 2020.
6. Steen-Adams, M.M., Charnley, S., McLain, R.J., Adams, M.D., Wendel, K.L., *Traditional Knowledge of fire use by the Confederated Tribes of Warm Springs in the eastside Cascades of Oregon*, University of Portland, March 12, 2020.
5. Steen-Adams, M.M., Charnley, S., McLain, R.J., Adams, M.D., Wendel, K.L., *Traditional Knowledge of fire use by the Confederated Tribes of Warm Springs in the eastside Cascades of Oregon*, Washington State University Vancouver, February 10, 2020.
4. Steen-Adams, M.M., *Influence of wildfire policy and informal institutions on management and forest resilience in a multi-ownership landscape, eastside Cascades, Oregon: A historical perspective*, Portland State University, June 6, 2017
3. Steen-Adams, M.M., *Utility of integrating environmental history and landscape ecology?: Influence of social vs. biophysical factors on long-term forest landscape change (1860-1990) in the northern Great Lakes region*, Harvard Forest, Harvard University, April 2015.

2. Steen-Adams, M.M., *Utility of integrating environmental history and landscape ecology?: Influence of social vs. biophysical factors on long-term forest landscape change (1860-1990) in the northern Great Lakes region*, University of Connecticut (Geography and Environmental Studies Lecture Series), 3 April 2015.

1. Steen-Adams, M.M., *Landscape Ecology: Society and Culture*, Portland State University, May 6, 2013.

**NATIONAL AND INTERNATIONAL SCIENTIFIC MEETING PRESENTATIONS (since 2010)**

13. Steen-Adams, M.M. Round Table contribution to: *Exclusion, Land Dispossession, and the Past, Present, and Future of Private Land Conservation*, American Society for Environmental History Annual Meeting, Eugene, Oregon, March 24, 2022

12. Meddens, A.J.H., Steen-Adams, M.M., Hudak, A., Mauro, F., Byassee, P.M., Strunk, J. *Specifying remote sensing data product characteristics for forest management applications*, American Geophysical Union, December, 2021, New Orleans.

11. Steen-Adams, M.M., Abrams, J.B., Huber-Stearns, H.R., Moseley, C., Bone, C. *Influence of local context and institutions on governance change: pine beetle outbreak responses in northern Colorado*, Society of American Foresters Convention, October, 2018, Portland, Oregon.

10. Steen-Adams, M.M., Abrams, J.B., Huber-Stearns, H.R., Moseley, C., Bone, C. *Influence of institutional history on multi-level forest governance of mountain pine beetle outbreaks in the intermountain U.S. West*, International Symposium on Society and Resource Management (ISSRM), June, 2018, Snowbird, Utah.

9. Abrams, J.B., Steen-Adams, M.M., Huber-Stearns, H.R., Bone, C. Moseley, C., *The “How” and “Where” of Adaptive Governance in Multilevel Systems: An Analysis of Responses to a Mountain Pine Beetle Epidemic*, ISSRM, June, 2018, Snowbird, Utah.

8. Steen-Adams, M.M., Charnley, S., McLain, R.J., Wendel, K.L., Adams, M.D. *Traditional Ecological Knowledge of fire-use by the Ichishikin, Kitsht Wasco, and Numu peoples: Applications to conifer forest restoration in the East Cascades ecoregion*, ISSRM, June, 2018, Snowbird, Utah.

7. Steen-Adams, M.M., Charnley, S. Adams M.D. *Historical basis of fuels management in the multiple-ownership landscape of the east Cascades of Oregon*, International Association for Landscape Ecology (IALE) World Congress, July, 2015, Portland, Oregon.

6. Steen-Adams, M.M., Adams M.D., Weyerman, D., Charnley S., Spies, T. *Influence of ownership on historic fire and forest management and forest landscape change (1935-1955) in the Oregon Cascades: comparison of Deschutes National Forest and the Confederated Tribes of Warm Springs Reservation*, US Division of IALE Conference, May, 2014, Anchorage, Alaska.

5. Steen-Adams M.M., *Environmental history (1855-2011) of wildland fire and fuels management across U.S. Forest Service and tribal ownerships in Oregon: Institutional adaptation in a fire-prone landscape*, American Society for Environmental History (ASEH) Annual Conference, March 12- 16, 2014, San Francisco, California.

4. Steen-Adams MM, Mladenoff DJ, Langston NE, Zhu J, Liu F (2011) Cultural landscape change in northern Wisconsin (1860-1987): Insights from an integration of history and ecology, Symposium: Historical Ecology of Highly Modified Landscapes: using history to re-imagine future landscape potential, International Association of Landscape Ecology (IALE) conference, Portland Oregon, April 2011, Portland Oregon.

3. Steen-Adams MM, (2010) Interdisciplinary environmental studies and sciences careers: Assessing the challenges, strategizing responses, positioning ourselves for success, Association for Environmental Studies and Sciences (AESS) Conference, June 17-20, 2010, Portland, Oregon.

2. Steen-Adams MM, Adams MD (2010) State of Maine- Federal Interactions over Maine coastal resources: A comparison of engagement with the Federal Emergency Relief Act and the Coastal Zone Management Act. New England History Association (NEHA), University of New England, October 16, 2010, Biddeford, Maine.

1. Zhu J, Jin C, Gangnon R, Sain S, Steen-Adams MM (2010) Spatial Multinomial Regression Models for the Analysis of Land Cover Data. Joint Statistical Meetings (JSM) Conference. August 2, 2010, Vancouver, Canada. <https://www.amstat.org/meetings/jsm/2010/>.

## **AWARDS AND HONORS**

- National Science Foundation-Integrative Graduate Education Research Traineeship (NSF-IGERT) Program Dissertation Research Award. 2002. \$12,500.
- American Association of University Women (AAUW) Career Development Grant. 1998. \$1,500.

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## **TEACHING**

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### **COURSES TAUGHT**

#### Washington State University Vancouver

SOE 404      The Ecosystem (capstone course) (writing in the major course) (3 cr.) Spring, 2022  
SOE 312      Natural Resources, Society, and the Environment (3 cr.), Spring, 2021, 2022, 2023  
BIO 372      General Ecology (writing in the major course) (Lecture and Lab) (4 cr.), Summer, 2020

#### Washington State University Global Campus

SOE 404      The Ecosystem (capstone course) (writing in the major course) (3 cr.) Spring, 2022  
SOE 312      Natural Resources, Society, and the Environment (3 cr.), Fall, 2022

#### University of New England

ENV 372      Forest Landscape Ecology and Management (3 cr.) 2012, 2013  
ENV 335      Environmental History of New England Seminar (3 cr.), 2008, 2010, 2011  
ENV 398      Communities and Forests (3 cr.)<sup>1</sup>  
ENV 240      Environmental Sustainability Lab (2 cr.) 2015, 2016  
ENV 200      Society, Population and Environment: A Global Perspective (3 cr.) 2006-2016<sup>2</sup>  
ENV 104      Introduction to Environmental Issues (3 cr.) 2005 - 2016<sup>3</sup>

<sup>1</sup> course approved, but not offered.

<sup>2</sup> 2 sections/semester; taught spring semesters. Course not taught in AY 2012-2013 (sabbatical).

<sup>3</sup> 2 sections/semester; taught fall semesters. Course not taught in AY 2012-2013 (sabbatical).

### **DISSERTATION EXTERNAL EXAMINER**

Prety. Y. White pine (*Pinus strobus* L.) dynamics at the species' northern limit of continuous distribution: options for restoration and sustainable management in an Aboriginal context. Université du Québec en Abitibi-Témiscamingue. Doctoral dissertation external examiner (2013).

### **GRADUATE ADVISING**

Ksenia Alice Pereverzeva, M.S. Student, Environmental & Natural Resource Sciences, "The chemical ecology of resin ducts in drought induced Pinyon pine forests" (Committee member, Spring, 2023 – present).

## **MENTORING**

- Brendan Miller, School of the Environment (Environmental and Ecosystem Sciences major). Class of 2024 (projected). Mentored application (October, 2022): Washington Legislative Internship Program. Outcome: invitation offered. Internship with Senator Liz Lovelett, 40<sup>th</sup> Legislative District (Spring, 2023).
- Rachel Cristaudo. Humanities major. Concentrations: Anthropology, Sciences. Class of 2022. Mentored application and scoping of program alternatives (June - July, 2022, and on-going): Simon Fraser University, Archaeological Heritage Resource Management Program (M.A.) Outcome: admission offered.

## **ADVISING – UNDERGRADUATE RESEARCH PROJECTS**

- Cutler, E. The Politics of Knowledge: How Worldviews affect Wildfire Management in the Pacific Northwest, Undergraduate thesis, Reed College, Sept. 2021. (informal advisory role).
- Dubois, G.\*, Steen-Adams, M.M., Adams, M.D.O., 2015. History of Wildland Fire, Fuels, and Forest Management of the Deschutes National Forest (Oregon).
- Smith C.\*, Adams M.D.O., Steen-Adams M.M., and Morgan P., 2012. Classification and Assessment of Land Cover Change (1962- 2003) of the lower Saco River watershed, Maine, USA
- Williams L.B.,\* Steen-Adams M.M. (2010-2011) How were progressive era ideals introduced to coastal New England dairy operations?: Cultural and economic linkages between summering urbanites and rural Maine communities- An oral history of Laudholm Farm. UNE College of Arts and Sciences Honors Committee summer research support award recipient.
- Kelly, M.\*, 2009. GIS analysis of historical logging activity and forest conditions in the Saco River watershed. (Advised successful application for National Science Foundation - Research Experience for Undergraduates, New Jersey Pine Barrens.)
- Kingston R.\*, Steen-Adams M.M., Zogg G., 2008-2009. Legacies of past land use/ land-cover pattern on coastal watershed nitrogen flux: Bearcamp River pilot study, Saco River watershed.

\*University of New England student

## **TECHNICAL TRANSFER TRAININGS and WORKSHOPS** (key recent works)

6. **Steen-Adams, M.M.**; Howard, S.; Cook, S; Williams, J.P. Reviewers: E. Middleton Manning, M. Himel, W. Ward. Land Trust Alliance, *History of Land Conservation Short Course* (experiences of historically marginalized peoples in private land conservation, tentatively entitled, “Rethinking and reinvigorating private land conservation”). September, 2022 – June, 2023. Training date: May 17 – 18, 2023.
5. **Steen-Adams, M.M.**, Humans as ecosystem modifiers: landscape ecology and NEPA, [presentation for] Landscape ecology and NEPA planning: Building credible, science-based rationale for why here, why now?, USDA Forest Service workshop, Corvallis, Oregon, November 5, 2019.
4. **Steen-Adams, M.M.**, Charnley, S, McLain, R.J., Wendel, K.L., Adams, M. Traditional tending of huckleberry fields in high-elevation conifer forests: Applications to cultural resource enhancement and forest restoration, Presentation for Confederated Tribes of Warm Springs Branch of Natural Resources, Warm Springs Oregon, December 20, 2017.
3. **Steen-Adams, M.M.**, McLain, R.J., Wendel, K.L. Participatory GIS Workshop, Traditional Tending of cultural resources: Our people and fire, Event co-sponsored with Confederated Tribes of Warm Springs Culture and Heritage Committee, Warm Springs Oregon, November 27, 2017.
2. **Steen-Adams, M.M.**, Charnley, S., McLain, R.J., Wendel, K.L., Adams, M.D., Hagmann, K., Hessburg, P., Gray, R., Salter, B., Using Traditional Ecological Knowledge for Restoration: Insights from project with Confederated Tribes of Warm Springs, Annual Region 6 Ecology Meeting, USDA Forest Service, Wenatchee, Washington, October 16-20, 2017.

1. **Steen-Adams, M.M.** and McLain, R.J., Participatory GIS training (3-part sequence): skill-building for Natural Resources technicians of Confederated Tribes of Warm Springs, Warm Springs, Oregon, Feb. 9, 2017 Feb. 23, 2017 and Mar. 10, 2017.

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## SERVICE to the Profession, University, and Public

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### PROFESSIONAL SERVICE

#### Manuscript referee

*Ecology and Society, Environmental History, Forest Policy and Economics, Geography Compass (Biogeography section), International Forestry Review, Journal of Environmental Management, Landscape and Urban Planning, Michigan Historical Review, Society and Natural Resources.*

#### Review of submissions for best scholarship of the field

- Chair/ committee member, Theodore C. Blegen Award for best journal article in forest conservation history (in a journal other than *Environmental History*), Forest History Society, 2013-2017

#### Invited Reviewer of textbooks and monograph proposals

- Schenck, R. [working title]: *Gifford's Sacrificial Forest: The Life, Death, and Rebirth of Old Growth Forests in the Pacific Northwest*, Reviewed for Washington State University Press. Review: October 2022.
- Abrams, J. *Forest Governance in the United States: An Introduction*, Routledge University Press (in press), Chapter 2. Forestry and the National Interest; Chapter 3 Contemporary Forest History. Review: May 2022.
- Christensen, N. and Leege, L., 2015, 2011. *The Environment and You*. Pearson Environmental Science. Review: 2011.
- Hale, B. (monograph proposal) *Routledge Environmental Humanities Series*, Review: 2010.

#### Board of Directors and conference program committee service

- 2019-2021 Co-Vice Chair and member of Board of Directors, Forest History Society (Durham, N.C.)
- FHS Executive Committee
  - Strategic Plan co-author (2020 – 2021). Leadership role
  - Journal Management Group for Environmental History: developed/ deployed survey.
- 2013-2019 Board of Directors, Forest History Society
- Journal Management Group for Environmental History
  - Co-chair, Program Committee, 2017-2019
    - Initiate and lead initiative, *Inclusivity and Diversity in FHS Program*: developed and deployed survey; developed report, resulting in formal adoption of a related Values statement in FHS governance.
- 2012-2014 Treasurer/ Executive Officer, US-IALE (International Association for Landscape Ecology)
- 2012 Conference program committee, American Society for Environmental History (ASEH)

#### Working Group Leadership

- 2021-2023 *Land Conservation, History, and Justice Work Group*, Monthly meetings, convening scholars and land conservation practitioners from across the U.S. (Pacific West, Great Lakes Region, New England, U.S. South, 12 – 15 participants). Co-organized with M. Himel, September, 2021 - present.

### **Conference session organizing**

- 2021-2022 *Exclusion, Land Dispossession, and the Past, Present, and Future of Private Land Conservation*, American Society for Environmental History Annual Meeting, Eugene, Oregon, March, 2022. Co-organized with M. Himel.
- 2019-2020 *Managing for first foods: Returning human-adapted ecosystems to the Northwest*, Northwest Science Association Meeting, Eugene, Oregon, March, 2020 [event cancelled, due to Covid-19 disruption]. Assistance to co-organizers: C. Harrington, M. Wynkoop.
- 2018-2019 *Tribal Natural Resources Management in Practice*, Society for Applied Anthropology (SfAA), March 2019, Portland, Oregon. Double-session panel, involving ten presentations from federal agencies, the Intertribal Timber Council, American Indian Tribes, and universities.
- 2013-2014 *Learning to live with fire*, American Society for Environmental History (ASEH), March 2014, San Francisco, California.
- 2011-2012 *Boreal forest restoration through historian-ecologist collaboration*, American Society for Environmental History (ASEH), March 2012, Madison, Wisconsin.

### **UNIVERSITY SERVICE** (selected examples)

- 2022 – present **Diversity, Equity, and Inclusion Committee**, School of the Environment, Washington State University (December, 2022 – present).
- 2010 **Search Committee for Dean**, College of Arts and Sciences (CAS), University of New England
- 2006-2010 **Assessment of Student Learning** – ENV 104 (Core Curriculum course), Department of Environmental Studies, University of New England. Role: Lead.
- 2007 **Search Committee for Dean**, College of Arts and Sciences (CAS), University of New England

### **PUBLIC SERVICE**

#### **Scholarship**

Public history scholarship - *Willamette Heights, Portland: Renewal, community, and the arts along a historical model street adjoining Forest Park, 1970s – 2020 – an oral history*. (2022).

**Steen-Adams MM** and Langston NE (2004). A Comparative Forest Landscape History of the Bad River Reservation and Private Land in the Lake Superior Clay Plain, Pre-EuroAmerican Settlement to 1987. Pp. 10-13 in Proceedings of the Twenty-ninth Annual Meeting of the Forest History Association of Wisconsin, Inc. Ashland, Wisconsin (September 24, 2004).

#### **Public presentations** (since 2021)

**Steen-Adams, M.M.** *Traditional knowledge of fire use by the Warm Springs Tribes in the eastside Cascades: opportunities and best practices in applying traditional knowledge*, East Cascades Oak Partnership/ Columbia Land Trust, June 15, 2022.

Burke, M. et al., *A Necessary Reckoning: Using History to Take Your Conservation Work to the Next Level*, The Land Trust Alliance Rally, October 5, 2021.

**Steen-Adams, M.M.**, Charnley, S., McLain, R.J., Wendel, K.L., Adams, M.D., *Traditional fire use by Warm Springs Tribes*, Eastern Oregon Climate Change Coalition, September 28, 2021.

### **PROFESSIONAL AFFILIATIONS**

- American Society for Environmental History
- Forest History Society

**LANGUAGES**

- French – moderate proficiency
- Bambara – Introductory level

**REFERENCES** - available upon request.