

## Matthew Hamilton

CONTACT INFORMATION	School of Environment and Natural Resources The Ohio State University 2021 Coffey Rd., Columbus, OH 43210	<a href="https://sens-lab.github.io">https://sens-lab.github.io</a> <a href="mailto:hamilton.1323@osu.edu">hamilton.1323@osu.edu</a> 320E Kottman Hall
ACADEMIC APPOINTMENTS	<b>Assistant Professor</b> , School of Environment and Natural Resources The Ohio State University, Columbus, OH	8/2018 -
	<b>Core Faculty</b> , Sustainability Institute The Ohio State University, Columbus, OH	1/2019 -
	<b>NSF SBE Postdoctoral Fellow</b> , School of Env.'t and Sustainability University of Michigan, Ann Arbor, MI	8/2017 - 8/2018
	<b>Research Fellow</b> , School of Environment and Sustainability University of Michigan, Ann Arbor, MI	8/2016 - 8/2017
EDUCATION	<b>PhD</b> , Ecology (emph. Environmental Policy), University of California, Davis	2016
	<b>MSc</b> , International Agricultural Development, University of California, Davis	2012
	<b>BA</b> , Government, Dartmouth College, Hanover, NH	2005
PUBLICATIONS	<p>22. Fried, H., <b>M. Hamilton</b>, R. Berardo. Forthcoming. "Theorizing multilevel incentive structures guiding forum navigation." <i>Journal of Public Administration Research and Theory</i>. muac042. doi:10.1093/jopart/muac042</p> <p>21. Shuman, J.K., J.K. Balch, R.T. Barnes, P.E. Higuera, C.I. Roos, D.W. Schwillk, E.N. Stavros, ... <b>M. Hamilton</b> ... and 79 other coauthors. 2022. "Reimagine fire science for the anthropocene." <i>PNAS Nexus</i>. 1(3):pgac115. doi:10.1093/pnasnexus/pgac115</p> <p>20. <b>Hamilton, M.</b>, J. Salerno, A.P. Fischer. 2022. "Cognition of feedback loops in a fire-prone social-ecological system." <i>Global Environmental Change</i>. 74: 102519. doi:10.1016/j.gloenvcha.2022.102519</p> <p>19. Palsa, E., M. Bauer, C. Evers, <b>M. Hamilton</b>, M. Nielsen-Pincus. 2022. "Engagement in local and collaborative wildfire risk mitigation planning across the western U.S. - Evaluating participation and diversity in Community Wildfire Protection Plans." <i>PLoS ONE</i>. 17(2): e0263757. doi:10.1371/journal.pone.0263757</p> <p>18. Fried, H., <b>M. Hamilton</b>, R. Berardo. 2022. "Closing integrative gaps in complex environmental governance systems." <i>Ecology and Society</i>. 27(1). doi:10.5751/ES-12996-270115</p> <p>17. <b>M. Hamilton</b>, A.P. Fischer, L. Jasny. 2021. "Bridging collaboration gaps in fragmented environmental governance systems." <i>Environmental Science &amp; Policy</i>. 124:461-470. doi:10.1016/j.envsci.2021.07.014</p> <p>16. Wade, J., M. Beetstra, <b>M. Hamilton</b>, S.W. Culman, A. J. Margenot. 2021. "Soil health conceptualization differs across key stakeholder groups in the Midwest." <i>Journal of Soil and Water Conservation</i>. 02158. doi:10.2489/jswc.2021.02158</p>	

15. Jasny, L., L. Roldan Gomez, **M. Hamilton**, C. Prell, A. Guerrero, P. Matous, E. Schiffer, J. Sayles, M. Barnes, D. Jacobs. 2021. "Participant Engagement in Environmentally Focused Social Network Data Collection." *Social Networks*. 66:125-138. doi:10.1016/j.socnet.2021.01.005
14. Berardo, R., M. Fischer, **M. Hamilton**. 2020. "Collaborative governance and the challenges of network-based research." *The American Review of Public Administration*. 50(8):898-913. doi:10.1177/0275074020927792
13. **Hamilton, M.**, J. Salerno. 2020. "Cognitive maps reveal diverse perceptions of how prescribed fire affects forests and communities." *Frontiers in Forests and Global Change*. 3:1-11. doi:10.3389/ffgc.2020.00075
12. Wilson, R., A. Herziger, **M. Hamilton**, J. Brooks. 2020. "Individual adaptation to climate-exacerbated hazards: Shifting from incremental coping to transformative adaptation." *Nature Climate Change*. 10:200-208. doi:10.1038/s41558-020-0691-6
11. **Hamilton, M.**, J. Hileman, Ö. Bodin. 2020. "Evaluating heterogeneous brokerage: New conceptual and methodological approaches and their application to multi-level environmental governance networks." *Social Networks*. 61:1-10. doi:10.1016/j.socnet.2019.08.002
10. **Hamilton, M.**, J. Salerno, A.P. Fischer. 2019. "Cognition of complexity and trade-offs in a wildfire-prone social-ecological system." *Environmental Research Letters*. 14:125017. doi:10.1088/1748-9326/ab59c1
9. Sayles, J.S., M. Mancilla Garcia, **M. Hamilton**, S.M. Alexander, J.A. Baggio, A.P. Fischer, K. Ingold, G.R. Meredith, J. Pittman. 2019. "Social-ecological network analysis for sustainability sciences: a systematic review and innovative research agenda for the future." *Environmental Research Letters*. 14:093003. doi:10.1088/1748-9326/ab2619
8. **Hamilton, M.**, M. Lubell. 2019. "Climate change adaptation, social capital, and the performance of polycentric governance institutions." *Climatic Change*. 152(3):307-326. doi:10.1007/s10584-019-02380-2
7. **Hamilton, M.**, A.P. Fischer, A. Ager. 2019. "A social-ecological network approach for understanding wildfire risk governance." *Global Environmental Change*. 54:113-123. doi:10.1016/j.gloenvcha.2018.11.007
6. **Hamilton, M.** 2018. "Understanding what shapes varying perceptions of the procedural fairness of transboundary environmental decision-making processes." *Ecology and Society*. 23(4). doi:10.5751/ES-10625-230448
5. **Hamilton, M.**, A.P. Fischer, S. Guikema, G. Keppel-Aleks. 2018. "Behavioral adaptation to climate change in fire-prone forests." *Wiley Interdisciplinary Reviews: Climate Change*. 9(6):e553 doi:10.1002/wcc.553
4. **Hamilton, M.**, M. Lubell, E. Namaganda 2018. "Cross-level linkages in an ecology of climate change adaptation policy games." *Ecology and Society*. 23(2). doi:10.5751/ES-10179-230236
3. **Hamilton, M.**, M. Lubell. 2018. "Collaborative governance of climate change across spatial and institutional scales." *Policy Studies Journal*. 46(2):222-247. doi:10.1111/psj.12224
2. Farzan, S., D.J.N. Young, A.G. Dedrick, **M. Hamilton**, E.C. Porse, P.S. Coates, G. Sampson. 2015. "Western juniper management: assessing policies for improving greater sage-grouse habitat and rangeland productivity." *Environmental Management*. 1-9. doi:10.1007/s00267-015-0521-1

	<p>1. Lubell, M., B.B. Cutts, L.M. Roche, <b>M. Hamilton</b>, J.D. Derner, E. Kachergis, K.W. Tate. 2013. "Conservation Program Participation and Adaptive Rangeland Decision-Making." <i>Rangeland Ecology and Management</i>. 66(6):609-620. doi:10.2111/rem-d-13-00025.1</p>
BOOK CHAPTERS	<p>1. Lubell, M., <b>M. Hamilton</b>, J. Mewhirter, F. Vantaggiato, R. Berardo. 2022. "Methodological Approaches to the Ecology of Games Framework." In <i>Methods of the Policy Process</i>, Christopher M. Weible and Sam Workman, Eds. 233-262. New York, NY: Routledge. doi:10.4324/9781003269083-9</p>
CURRENT FUNDED PROJECTS	<p>PI (OSU lead; CSU PI: J. Salerno; Co-PIs: E. Toman, A.P. Fischer, A. Cheng, M. Nielsen-Pincus): Cognitive, social, and institutional dynamics of decision-making in complex hazard-prone environments. <b>NSF DRMS</b>. 2020-2023. Total: \$653k; OSU portion: \$398k.</p> <p>Co-PI (PI: N. Hull; Co-PIs: J. Campbell, S. Contreras, C. Patterson, J. Waugh-Quasebarth): Systemic Interactions between Individuals and Drinking Water Quality in Appalachia. 2020-2022. <b>Sustainability Institute and CERTAIN Ohio State Sustainability Research Seed Grant</b>, Total: \$25k.</p> <p>Co-PI (PI: P.T. Thuy; Co-PIs: D. Munroe, C. Gallemore): Identifying conditions for successful landscape-scale conservation policy implementation in Vietnam. 2019-2022. <b>USAID Partnerships for Enhanced Engagement in Research (PEER) Program</b>, Total: \$80k.</p> <p>Co-PI (PI: G.M. Davies; Co-PIs: B. Mark, J. McCarty, K. Raundrup): Can Novel Technologies Promote Social and Ecological Resilience to Novel Disturbances in a Changing Arctic Climate? 2020-2022. <b>Battelle Engineering, Technology and Human Affairs Endowment</b>, Total: \$45k.</p>
COMPLETED FUNDED PROJECTS	<p>Co-PI (PI: S. Downey; Co-PIs: R. Qin, B. Piperata, S. Scaggs, C. Jayaprakash): SWISH (SWidden agricultural food systems, Sustainability, and Health). 2020-2021. <b>Sustainability Institute (Ohio State) Seed Grant</b>, Total: \$12k.</p> <p>PI (Co-PI: A.P. Fischer): Linking social and ecological embeddedness, wildfire risk, and collective action. 2017-2019. <b>NSF SBE Postdoctoral Fellowship</b>. Total: \$69k.</p>
HONORS AND AWARDS	<p>Best Substantive Poster Award, Political Networks (2016)  Theodore and Angela Foin Graduate Award (2015-2016)  Political Networks Travel Fellowship (2015, 2016)  Ecology Graduate Group Fellowship (2014 - 2016)  NSF Responding to Rapid Environmental Change IGERT (2011 - 2013)  UC Davis Graduate Student Travel Award (2011)  Switzer Environmental Fellowship (2010 - 2011)  International Agricultural Development Graduate Group Fellowship (2009 - 2011)</p>
INVITED TALKS	<p>2021. "Grappling with wildfire risk across scales: how institutional, social, and cognitive processes shape coupled human-natural systems". University of California, Davis Spring Seminar, Davis, CA (online presentation).</p> <p>2018. "Collaborative Networks and Wildfire Risk Mitigation in the Eastern Cascades". Portland State University School of the Environment Winter Speakers Seminar, Portland, OR.</p>

2017. "Exploring fairness in water basin governance: Improving participation or managing expectations?" Water, Inclusion and Visions of Development Workshop, Stockholm, Sweden.

RECENT  
CONTRIBUTED  
TALKS

**Hamilton, M.,** L. Dee, C. Evers, J. Inskeep, A. Jacobi, A. Lopresti, M. Nielsen-Pincus, H. Yi. 2023. "The role of decentralized local risk governance networks in diffusing discourse around climate change adaptation: The case of Community Wildfire Protection Plans in the western USA". Conference on Policy Process Research (virtual presentation).

**Hamilton, M.,** C. Evers, M. Nielsen-Pincus. 2022. "The role of decentralized local risk governance networks in diffusing discourse around climate change adaptation: The case of Community Wildfire Protection Plans in the western USA". International Sunbelt Social Network Conference (virtual presentation).

**Hamilton, M.,** C. Evers, M. Nielsen-Pincus. 2022. "Grappling with wildfire risk across scales: how institutional, social, and cognitive processes shape coupled human-natural systems". Annual Meeting of the American Association of Geographers (virtual presentation).

**Hamilton, M.,** C. Evers, M. Nielsen-Pincus, E. Palsa, M. Bauer. 2021. "Developing a library of Community Wildfire Protection Plans as a tool to understand boundary-crossing collective action". 9th International Fire Ecology and Management Congress (virtual presentation).

**Hamilton, M.,** C. Evers, M. Nielsen-Pincus. 2021. "Risk governance from the bottom-up: Cross-jurisdiction coordination of wildfire risk in fragmented governance settings". Networks 2021: A Joint Sunbelt and NetSci Conference (virtual presentation).

**Hamilton, M.,** C. Evers, M. Nielsen-Pincus. 2021. "Cross-jurisdiction coordination of risk in fragmented governance settings". Annual Meeting of the American Association of Geographers (virtual presentation).

Gallemore, C., **M. Hamilton,** T. T. Pham. 2021. "The Challenge of Orchestrating Multi-level Governance Networks: Evidence from Forest Policy in Vietnam". The 3rd North American Social Networks Conference (virtual presentation).

**Hamilton, M.,** M. Nielsen-Pincus. 2020. "How policy networks coevolve with environmental risk: Insights from wildfire governance in the U.S. West". Annual Meeting of the American Association of Geographers, Denver, CO (virtual presentation).

**Hamilton, M.,** A. P. Fischer, L. Jasny, A. Ager. 2019. "Brokering collaboration in fragmented risk governance settings: An actor level perspective". International Sunbelt Social Network Conference, Montreal, Québec, Canada.

**Hamilton, M.,** A. P. Fischer, L. Jasny. 2019. "Who are the brokers of collaborative risk management in wildfire-prone landscapes?". Annual Meeting of the American Association of Geographers, Washington, DC.

**Hamilton, M.** and A. P. Fischer. 2018 "Conceptualizing complexity and trade-offs in a wildfire-prone social-ecological system". Human Dimensions of Wildland Fire Conference, Asheville, NC.

**Hamilton, M.,** A. P. Fischer, A. Ager. 2018. "How does ecological connectivity predict coordination in a wildfire-prone ecosystem?" Fire Continuum Conference, Missoula, MT.

**Hamilton, M.,** A. P. Fischer, A. Ager. 2018. "Using social-ecological networks to assess alignment of risk interdependence and collaborative risk mitigation in a wildfire-prone ecosystem". Annual Meeting of the American Association of Geographers, New Orleans, LA.

**Hamilton, M.,** M. Lubell. 2018. "How Social Capital Shapes the Performance of Climate Change Adaptation Policy Processes". Midwest Political Science Association Conference, Chicago, IL.

**Hamilton, M.,** A. P. Fischer, A. Ager. 2018. "Network perspectives on risk assessment: insights from the Eastern Cascades, Oregon". Cohesive Wildland Fire Management Strategy Workshop, Reno, NV.

**Hamilton, M.,** M. Lubell. 2017. "Collaboration, influence, and cross-level linkages in climate change adaptation policy networks." Environmental Politics and Governance Conference, Bloomington, IN.

**Hamilton, M.,** A. P. Fischer, A. Ager. 2017. "Institutional Fit and Wildfire Risk Governance." Political Networks Conference, Columbus, OH.

**Hamilton, M.,** A. P. Fischer. 2017. "Aligning scales of risk and response: Insights from wildfire management networks in the eastern Cascades, Oregon." Annual Meeting of the American Association of Geographers, Boston, MA.

**Hamilton, M.,** M. Lubell. 2016. "Collaboration, influence, and cross-level linkages in climate change adaptation policy networks". Midwest Political Science Association Conference, Chicago, IL.

**Hamilton, M.,** M. Lubell. 2016. "Collaboration, influence, and cross-level linkages in climate change adaptation policy networks". Annual Meeting of the Association of American Geographers, San Francisco, CA.

**Hamilton, M.,** M. Lubell, E. Namaganda. 2015. "Climate change adaptation policy networks in the Lake Victoria region". American Political Science Association Annual Meeting, San Francisco, CA.

**Hamilton, M.,** E. Namaganda, M. Lubell. 2015. "Policy networks and climate change adaptation in the Lake Victoria Basin: a multi-scale perspective". Political Networks, Portland, OR.

OUTREACH  
PUBLICATIONS

2021. Pham, T. T., **M. Hamilton,** C. Gallemore. "Preliminary results of assessments on the impacts of Payments for Forest Environmental Services (PFES) on forest networks and governance, household income and forest loss in Vietnam." CFOR Info Brief. No. 325. doi:10.17528/cifor/007998

2019. **Hamilton, M.,** J. Salerno, A. P. Fischer. "Using mental models to understand trade-offs in wildfire risk mitigation." Research Brief. Available at <http://www.nwfirescience.org/biblio/using-mental-models-understand-trade-offs-wildfire-risk-mitigation>.

OUTREACH  
PRESENTATIONS

2022. Courtney, K., **M. Hamilton.** "Community wildfire protection planning: Learning and collective action at multiple scales." Community Wildfire Mitigation Best Practices Course (virtual presentation).

2021. **Hamilton, M.** "Vietnam's PFES and the evolution of national forest governance networks." Networks, Livelihoods, and National Forest Governance in Vietnam (virtual presentation).

2021. **Hamilton, M.** "Social-ecological interdependence in forest governance systems: Application of network analysis tools and perspectives." Sustainable forest management and land use change - Lessons learnt from US and Vietnam (virtual presentation).

2020. **Hamilton, M.** "Network and spatial analysis for forest governance." International workshop: Enhancing wetland management and sustainable development (virtual presentation).

2019. **Hamilton, M.** "Network analysis in environmental social science." AESS-IASNR-SCB SSWG Methods I Webinar (virtual presentation).

INSTRUCTION EXPERIENCE	<i>The Ohio State University:</i>	
	ENR 4450: Climate Change Policy	2020
	ENR 7425: Collective Action in Environmental Governance	2022, 2020
	ENR 3200: Environmental and Natural Resources Policy	2019, 2021
	ENR 4900.01: Capstone Experience	2018, 2019, 2020, 2021
	<i>University of California, Davis:</i>	
	ANT 103: People and Conservation	2015
OTHER TEACHING EXPERIENCE	NASA and USAID-funded MyCOE-SERVIR training workshops	2012 - 2014
	Co-organizer and co-instructor for four workshops for university students, including:	
	• Climate Change, Landscape and Watersheds in SE Asia (Bangkok, Thailand)	
	• Women in Climate Change and Food Security in West Africa (Accra, Ghana)	
	• Climate Change in Mountain Area Regions (Kathmandu, Nepal)	
	• Climate Change, Agriculture and Food Security in East Africa (Nairobi, Kenya)	
ADVISING/ MENTORING	<i>Chair/Co-chair:</i>	
	PhD: Prabhjot Singh (2022-present)	
	PhD: Harrison Fried (2021-present; co-advisor with Ramiro Berardo)	
	PhD: Kimberly Ordonez (2020-present)	
	MS: Jordan Inskeep (2022-present)	
	MS: Monika Moreu Vicente (2022-present; co-advisor with G. Matt Davies)	
	MS: Lisa Shahin (2020-2022)	
	MS: Harrison Fried (2019-2021; co-advisor with Ramiro Berardo)	
	<i>Committee member:</i>	
	Andrew Bahrou (PhD; 2020-present); Dax Fisher-Garibay (PhD; 2022-present); Claire Rapp (PhD; 2019-2022); Federico Holm (PhD; 2019-2021); Madison Anderson (MS; 2020-2021); Maggie Beetstra (PhD; 2019-2020); Matthew Dowiatt (MS; 2019-2020); Alfian Alfian (MS; 2019-2020); Austin Miles (MS; 2019-2020); Ken Poland (MS; 2018-2019)	
	<i>Undergraduate advising:</i>	
	Hallie Stelzle (2021-present); Jordan Inskeep (2021-2022); Emily Palsa (2020-2021); Jennifer Prewitt (2019-2020); Emily Gedeon (2019-2020); Jayson Velazquez (2019-2020); Dauren Mason (2019-2020); Liz Vukovic (2018-2019); Anna Haught (2018-2019)	
SERVICE TO THE PROFESSION	Human Dimensions of Global Change Specialty Group of the American Association of Geographers	2022-present (chair); 2020-2022 (vice chair); 2019-2020 (board)

*Ad-hoc proposal reviewer:*

NSF Human-Environment and Geographical Sciences  
NSF Decision, Risk and Management Sciences  
UK Natural Environment Research Council

*Ad-hoc paper reviewer:*

Climatic Change	Landscape Ecology
Conservation Biology	Mit. and Adaptation Strategies for Global Change
Current Opinion in Environmental Sustainability	Nature Communications
Ecology & Society	Nature Human Behaviour
Ecological Applications	One Earth
Ecological Complexity	People and Nature
Fire	PLoS ONE
Forests, Trees and Livelihoods	Policy Sciences
Global Environmental Change	Policy Studies Journal
Governance	Regional Environmental Change
International Forestry Review	Risk Analysis
International Journal of Disaster Risk Reduction	Society & Natural Resources
Journal of Planning Literature	Sustainability Science
Land Use Policy	The Canadian Geographer
Land Use Science	Wiley Interdisciplinary Reviews: Water

UNIVERSITY SERVICE	SENR Fellowship Committee	2022 (chair); 2021 (member)
	CFAES Internal Grants Program Competition Review Committee	2022 (member)
	CFAES Annual Poster Competition	2021 (reviewer)
	Sustainability Institute Student Grants program	2022, 2020 (reviewer)
	Alpha Zeta Partners Leadership Honorary	2020-present (co-advisor)
PROFESSIONAL EXPERIENCE	<b>Center for Environmental Policy and Behavior</b> , Davis, CA	2010-2016
	<i>Graduate Student Researcher: statistical analysis of environmental decision-making</i>	
	<b>EIS-Africa</b> , Pretoria, South Africa	2011-2013
	<i>Visiting Research Associate: spatial data infrastructure for environmental decision-making in East Africa</i>	
	<b>iLiNS Project</b> , Davis, CA	2010-2013
	<i>Graduate Student Researcher: spatial modeling of nutrition policy outcomes in Burkina Faso</i>	
	<b>Global Water Initiative</b> , El Salvador, Guatemala, Nicaragua, Honduras	2009-2010
PROFESSIONAL AFFILIATIONS	<i>Graduate Research Consultant: participatory GIS for water resource management</i>	
	<b>American Association of Geographers</b> , Washington, D.C.	2008-2009
	<i>Coordinator, Developing Regions Program</i>	
	<b>Peace Corps</b> , Caazapa, Paraguay	2005-2007
	<i>Agricultural Extension Volunteer</i>	
	American Association of Geographers	
	American Political Science Association	
	International Network for Social Network Analysis	