

## Matthew Hamilton

---

CONTACT INFORMATION	School of Environment and Natural Resources The Ohio State University 2021 Coffey Rd., Columbus, OH 43210	matthewlhamilton.github.io hamilton.1323@osu.edu 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>Ph.D</b> , Ecology (emph. Environmental Policy), University of California, Davis	2016
	<b>M.Sc</b> , International Agricultural Development, University of California, Davis	2012
	<b>B.A</b> , Government, Dartmouth College, Hanover, NH	2005
PUBLICATIONS	Jasny, L., R., L. Roldan Gomez, <b>M. Hamilton</b> , C. Prell, A. Guerrero, P. Matous, E. Schiffer, J. Sayles, M. Barnes, D. Jacobs. "Participant Engagement in Environmentally Focused Social Network Data Collection." <i>Forthcoming at Social Networks</i> .	
	Berardo, R., M. Fischer, <b>M. Hamilton</b> . 2020. "Collaborative governance and the challenges of network-based research." <i>The American Review of Public Administration</i> . 50(8):898-913. doi:10.1177/0275074020927792	
	<b>Hamilton, M.</b> , J. Salerno. 2020. "Cognitive maps reveal diverse perceptions of how prescribed fire affects forests and communities." <i>Frontiers in Forests and Global Change</i> . 3:1-11. doi:10.3389/ffgc.2020.00075	
	Wilson, R., A. Herziger, <b>M. Hamilton</b> , J. Brooks. 2020. "Individual adaptation to climate-exacerbated hazards: Shifting from incremental coping to transformative adaptation." <i>Nature Climate Change</i> . 10:200-208. doi:10.1038/s41558-020-0691-6	
	<b>Hamilton, M.</b> , J. Hileman, Ö. Bodin. 2020. "Evaluating heterogeneous brokerage: New conceptual and methodological approaches and their application to multi-level environmental governance networks." <i>Social Networks</i> . 61:1-10. doi:10.1016/j.socnet.2019.08.002.	
	<b>Hamilton, M.</b> , J. Salerno, A.P. Fischer. 2019. "Cognition of complexity and trade-offs in a wildfire-prone social-ecological system." <i>Environmental Research Letters</i> . 14:125017. doi:10.1088/1748-9326/ab59c1	
	Sayles, J.S., M. Mancilla Garcia, <b>M. Hamilton</b> , S.M. Alexander, J.A. Baggio, A.P. Fischer, K. Ingold, G.R. Meredith, J. Pittman (Alphabetical order after Hamilton). 2019. "Social-ecological network analysis for sustainability sciences: a systematic review and innovative research agenda for the future." <i>Environmental Research Letters</i> . 14:093003. doi:10.1088/1748-9326/ab2619.	

**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.

**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.

**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.

**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.

**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.

**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.

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.

Lubell, M., B.B. Cutts, L.M. Roche, **M. Hamilton**, J.D. Derner, E. Kachergis, K.W. Tate. 2013. "Conservation Program Participation and Adaptive Rangeland Decision-Making." *Rangeland Ecology and Management*. 66(6):609-620. doi:10.2111/rem-d-13-00025.1.

FUNDED GRANTS  
AND CONTRACTS

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. **NSF DRMS**. 2020-2023. Total: \$617k; OSU portion: \$361k.

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. 2020-2021. **Sustainability Institute and CERTAIN Ohio State Sustainability Research Seed Grant**, Total: \$25k.

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. **Sustainability Institute (Ohio State) Seed Grant**, Total: \$12k.

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. **Battelle Engineering, Technology and Human Affairs Endowment**, Total: \$45k.

Co-PI (PI: P.T. Thuy; Co-PIs: D. Munroe, C. Gallemore): Identifying conditions for successful landscape-scale conservation policy implementation in Vietnam. 2019-2020. **USAID Partnerships for Enhanced Engagement in Research (PEER) Program**, Total: \$80k.

PI (Co-PI: A.P. Fischer): Linking social and ecological embeddedness, wildfire risk, and collective action. 2017-2019. **NSF SBE Postdoctoral Fellowship**. Total: \$69k.

HONORS  
AND AWARDS

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)

INVITED TALKS

2018. "Collaborative Networks and Wildfire Risk Mitigation in the Eastern Cascades". Portland State University School of the Environment Winter Speakers Seminar, Portland, OR.

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

RECENT  
CONTRIBUTED  
TALKS

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

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

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

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

INSTRUCTION  
EXPERIENCE

*The Ohio State University:*  
ENR 4450: Climate Change Policy 2020  
ENR 7425: Collective Action in Environmental Governance 2020  
ENR 3200: Environmental and Natural Resources Policy 2019  
ENR 4900.01: Capstone Experience 2018, 2019, 2020

*University of California, Davis:*  
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

*Chair/Co-chair:*  
PhD: Kimberly Ordonez (2020-present)  
MS: Harrison Fried (2019-present; co-advisor with Ramiro Berardo)  
MS: Lisa Shahin (2020-present)

*Committee member:*  
Federico Holm (PhD; 2019-present); Andrew Bahrou (PhD; 2020-present); Claire Rapp (PhD; 2019-present); Clair Bullock (PhD; 2019-present); Madison Anderson (MS; 2020-present); Maggie Beetstra (PhD; 2019-2020); Matthew Dowiatt (MS; 2019-2020); Ken Poland (MS; 2018-2019); Alfian Alfian (MS; 2019-2020); Austin Miles (MS; 2019-2020)

*Undergraduate advising:*  
Emily Palsa (2020-present); 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

American Association of Geographers Human Dimensions of Global Change Specialty Group: Vice Chair (2020-present), Board member (2019-20)

Ad-hoc referee service:

<i>Climatic Change</i>	<i>Mit. and Adaptation Strategies for Global Change</i>
<i>Conservation Biology</i>	<i>Nature Communications</i>
<i>Current Opinion in Environmental Sustainability</i>	<i>Nature Human Behaviour</i>
<i>Ecology &amp; Society</i>	<i>One Earth</i>
<i>Ecological Complexity</i>	<i>People and Nature</i>
<i>Fire</i>	<i>PLOS ONE</i>
<i>Forests, Trees and Livelihoods</i>	<i>Policy Sciences</i>
<i>Global Environmental Change</i>	<i>Policy Studies Journal</i>
<i>Governance</i>	<i>Regional Environmental Change</i>
<i>International Journal of Disaster Risk Reduction</i>	<i>Risk Analysis</i>
<i>Journal of Planning Literature</i>	<i>Society &amp; Natural Resources</i>
<i>Land Use Policy</i>	<i>Sustainability Science</i>
<i>Land Use Science</i>	<i>Wiley Interdisciplinary Reviews: Water</i>

Fellowship proposal reviewer: UK Natural Environment Research Council 2019  
SENR Fellowship Committee 2021  
Alpha Zeta Partners Leadership Honorary, Co-advisor, 2020-present

PROFESSIONAL  
EXPERIENCE

**Center for Environmental Policy and Behavior**, Davis, CA 2010-16  
*Graduate Student Researcher: statistical analysis of environmental decision-making*

**EIS-Africa**, Pretoria, South Africa 2011-13  
*Visiting Research Associate: spatial data infrastructure for environmental decision-making in East Africa*

**iLiNS Project**, Davis, CA 2010-13  
*Graduate Student Researcher: spatial modeling of nutrition policy outcomes in Burkina Faso*

**Global Water Initiative**, El Salvador, Guatemala, Nicaragua, Honduras 2009-10  
*Graduate Research Consultant: participatory GIS for water resource management*

**Association of American Geographers**, Washington, D.C. 2008-09  
*Coordinator, Developing Regions Program*

**Peace Corps**, Caazapa, Paraguay 2005-07  
*Agricultural Extension Volunteer*

PROFESSIONAL  
AFFILIATIONS

Association of American Geographers  
American Political Science Association  
International Network for Social Network Analysis