Alexandra Paige Fischer

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Education

- Ph.D. Forest Ecosystems and Society (formerly Forest Resources) (social science concentration), Oregon State University, 2007
- M.S. Forest Ecosystems and Society (formerly Forest Resources) (social science concentration), Oregon State University, 2003
- B.A. Cultural Anthropology, Hampshire College, 1994

Professional Experience

- University of Michigan, School for Environment and Sustainability, Ann Arbor, Michigan, Associate Professor, September 2020-present
- University of Michigan, School for Environment and Sustainability (formerly School of Natural Resources and Environment), Ann Arbor, Michigan, Assistant Professor, September 2014-2020
- USDA Forest Service, Pacific Northwest Research Station, Corvallis, Oregon, Research Social Scientist, January 2009-August 2014
- Oregon State University, Department of Forest Ecosystems and Society (formerly Department of Forest Resources), Corvallis, Oregon, Faculty Research Associate, January 2007-December 2009
- Oregon State University, Department of Forest Ecosystems and Society (formerly Department of Forest Resources), Corvallis, Oregon, Graduate Research Assistant, September 2001-December 2007
- Pacific Environment, Oakland, California, Program Director, September 1996-July 2001

Recognition, Honors, and Awards

- Fulbright Award, Chile, to conduct a cross-case comparison of wildfire risk as a socialecological system in south-central Chile and the western United States, March-June 2023
- Recognized as one of 50 female leading scholars in the international field of fire science in Smith, A., Kolden, C., Prichard, S., Gray, R., Hessburg, P., & Balch, J. (2018). Recognizing women leaders in fire science. *Fire*, 1(2), 30. <u>https://doi.org/10.3390/fire1020030</u>

- USDA Forest Service Pacific Northwest Research Station Science Findings Award to reward and feature excellent research in Science Findings. September 2016.
- Science and Practice in Ecology & Society Award nomination manuscript, "A boundary spanning organization for transdisciplinary science on land stewardship: The Stewardship Network of Ann Arbor," Foundation for Scientific Symbiosis. 2015.
- National Science Foundation Coupled Human and Natural Systems Fellowship recognizing outstanding junior scholars at the 2012 Fall Meeting of the American Geophysical Union. May 2012.
- USDA Forest Service Pacific Northwest Research Station Science Findings Award to reward and feature excellent research in Science Findings. April 2012.
- Oregon State University Alumnus of the Year Award for outstanding professional achievements and ongoing contributions to the profession and programs of the College of Forestry. May 2011.
- Ford Foundation Community Forestry Research Fellowship to conduct participatory Ph.D. research on conservation policy development for oak woodland and savanna on family forestland in Oregon's Willamette Valley. September 2004-August 2005.
- Starker Fellowship in Private and Family Forestry, Oregon State University. September 2001–December 2006.
- Fulbright Scholarship, Sri Lanka, to conduct ethnographic research on the relationship between Buddhist nationalism, natural resource policy and village-level forest management in Sri Lanka. October 1994-April 1996.

Publications

*Students and post-docs

Refereed Journal Articles

- 50. **Fischer, A. P.** and R. C. H. Denny*. (In press). Evaluating behavioral adaptation to climate change in terms of adaptation and coping: an index approach. *Global Environmental Change*.
- 49. Fischer, A. P., Shah, M. A. R., Segnon, A. C., Matavel, C., Antwi-Agyei, P., Shang, Y., Muir, M.*, & Kaufmann, R.* (2024). Human adaptation to climate change in the context of forests: A systematic review. *Climate Risk Management, 43*, 100573. <u>https://doi.org/10.1016/j.crm.2023.100573</u>.
- 48. Petzold, J., T. Hawxwell, K. Jantke, E. G. Gresse, C. Mirbach, I. Ajibade, S. Bhadwal, K. Bowen, A. P. Fischer, E. T. Joe, C. Kirchhoff, K. J. Mach, D. Reckien, A. Segnon, C. Singh, N. Ulibarri, D. Campbell, E. Cremin, L. Färber, G. Hegde, J. Jeong, A. M. Nunbogu, L. S. Schröder, M. A. R. Shah, P. Reese, F. Sultana, C. Tello and J. Xu (2023). Who is adapting and how? Identifying actors and roles in climate change adaptation. *Nature Climate Change*, *13*(11), 1250-1257. 10.1038/s41558-023-01824-z.

- 47. Denny, R. C. H<u>*</u>, & Fischer, A. P. (2023). The effects of climate change event characteristics on experiences and response behaviors: A study of small woodland owners in the Upper Midwest, USA. *Frontiers in Climate*, *5*. 10.3389/fclim.2023.1158386.
- Holm, F.*, & Fischer, A. P. (2023). Combining multiple data sources to identify actor involvement in environmental governance: Wildfire in the American West. Environmental Science & Policy, 147, 361-378. 10.1016/j.envsci.2023.05.022.
- 45. Capnerhurst, H.*, **Fischer, A. P., &** Perfecto, I. (2022). Invasion adaptation: A socioecological assessment of cherry growers' adaptation potential to spotted wing drosophila. *Human Ecology*. 10.1007/s10745-022-00341-5.
- 44. Denny, R. C. H.*, Marchese, J.*, & Fischer, A. P. (2022). Severe weather experience and climate change belief among small woodland owners: A study of reciprocal effects. *Weather, Climate, and Society, 14*(4), 1065-1082. 10.1175/wcas-d-21-0176.1.
- 43. **Fischer, A. P.,** Ma, Z., Wilson, R. S., & Keskitalo, C. (2022). Editorial: Managing land for risk: Climate decision-making in the context of forests, farms, and rangelands. *Frontiers in Climate, 4.* https://doi.org/10.3389/fclim.2022.867086.
- 42. **Fischer, A. P.**, Russo, M.*, & Powers, G*. (2022). Behavioral adaptation to climate change: New insights on psychosocial frameworks from the context of managed forests. *Sustainability Science*. https://doi.org/10.1007/s11625-021-01085-9.
- 41. Sehrsweeney, M.*, & Fischer, A. P. (2022). Governing ecosystem adaptation: An investigation of adaptive capacity within environmental governance networks. *Environmental Science & Policy*, 134, 46-56. https://doi.org/10.1016/j.envsci.2022.03.021.
- 40. Hamilton, M.*, Salerno, J., & **Fischer, A. P.** (2022). Cognition of feedback loops in a fire-prone social-ecological system. *Global Environmental Change*, *74*, 102519. https://doi.org/10.1016/j.gloenvcha.2022.102519.
- 39. Sotnik, G.,* **Fischer, A. P.**, Ibáñez, I., & Cousins, S. J. M. (2021). A transdisciplinary typology of change identifies new categories of adaptations and forms of co-adaptation in coupled human and natural systems. *Sustainability Science*, *16*(5), 1609-1623. https://10.1007/s11625-021-00979-y.
- Hamilton, M.*, Fischer, A. P., & Jasny, L. (2021). Bridging collaboration gaps in fragmented environmental governance systems. *Environmental Science & Policy*, 124, 461-470. https://doi.org/10.1016/j.envsci.2021.07.014.
- 37. Berrang-Ford, L., Siders, A. R., Lesnikowski, A., Fischer, A. P., Callaghan, M. W., Haddaway, N. R., Mach, K. J., Araos, M., Shah, M. A. R., Wannewitz, M., Doshi, D., Leiter, T., Matavel, C., Musah-Surugu, J. I., Wong-Parodi, G., Antwi-Agyei, P., Ajibade, I., Chauhan, N., Kakenmaster, W., Grady, C., Chalastani, V. I., Jagannathan, K., Galappaththi, E. K., Sitati, A., Scarpa, G., Totin, E., Davis, K., Hamilton, N. C., Kirchhoff, C. J., Kumar, P., Pentz, B., Simpson, N. P., Theokritoff, E., Deryng, D., Reckien, D., Zavaleta-Cortijo, C., Ulibarri, N., Segnon, A. C., Khavhagali, V., Shang, Y., Zvobgo, L., Zommers, Z., Xu, J., Williams, P. A., Canosa, I. V., van Maanen, N., van Bavel, B., van Aalst, M., Turek-Hankins, L. L., Trivedi, H., Trisos, C. H., Thomas, A.,

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Thakur, S., Templeman, S., Stringer, L. C., Sotnik, G.*, Sjostrom, K. D., Singh, C., Siña, M. Z., Shukla, R., Sardans, J., Salubi, E. A., Safaee Chalkasra, L. S., Ruiz-Diaz, R., Richards, C., Pokharel, P., Petzold, J., Penuelas, J., Pelaez Avila, J., Murillo, J. B. P., Ouni, S., Niemann, J., Nielsen, M., New, M., Nayna Schwerdtle, P., Nagle Alverio, G., Mullin, C. A., Mullenite, J., Mosurska, A., Morecroft, M. D., Minx, J. C., Maskell, G., Nunbogu, A. M., Magnan, A. K., Lwasa, S., Lukas-Sithole, M., Lissner, T., Lilford, O., Koller, S. F., Jurjonas, M., Joe, E. T., Huynh, L. T. M., Hill, A., Hernandez, R. R., Hegde, G., Hawxwell, T., Harper, S., Harden, A., Haasnoot, M., Gilmore, E. A., Gichuki, L., Gatt, A., Garschagen, M., Ford, J. D., Forbes, A., Farrell, A. D., Enquist, C. A. F., Elliott, S., Duncan, E., Coughlan de Perez, E., Coggins, S., Chen, T., Campbell, D., Browne, K. E., Bowen, K. J., Biesbroek, R., Bhatt, I. D., Bezner Kerr, R., Barr, S. L., Baker, E., Austin, S. E., Arotoma-Rojas, I., Anderson, C., Ajaz, W., Agrawal, T., & Abu, T. Z. (2021). A systematic global stocktake of evidence on human adaptation to climate change. *Nature Climate Change*, *11*(11), 989-1000. https://doi.org/10.1038/s41558-021-01170-y.

- Lemos, M. C., Klenk, N., Kirchhoff, C. J., Morrison, T., Bremer, S., Fischer, A. P., Bruno Soares, M., Torres, R. R., & Olwoch, J. M. (2020). Grand challenges for climate risk management. *Frontiers in Climate*, 2(21). https://doi.org/10.3389/fclim.2020.605206.
- 35. Charnley, S., Kelly, E. C., & **Fischer, A. P.** (2020). Fostering collective action to reduce wildfire risk across property boundaries in the American West. *Environmental Research Letters*, *15*(2), 025007. https://doi.org/10.1088/1748-9326/ab639a
- Hamilton, M.*, Salerno, J., & Fischer, A. P. (2019). Cognition of complexity and tradeoffs in a wildfire-prone social-ecological system. *Environmental Research Letters*, 14(12), 125017. https://doi.org/10.1088/1748-9326/ab59c1
- 33. Sayles, J., Mancilla Garcia, M., Hamilton, M., Alexander, S., Baggio, J., Fischer, A. P., Ingold, K., Meredith, G., & Pittman, J. (2019). Social-ecological network analysis for sustainability sciences: a systematic review and innovative research agenda for the future. *Environmental Research Letters*, 14(9), 093003. https://doi.org/10.1088/1748-9326/ab2619
- Bodin, Ö., Alexander, S. M., Baggio, J., Barnes, M. L., Berardo, R., Cumming, G. S., Dee, L., Fischer, M., Fischer, A. P., Mancilla-Garcia, M., Guerrero, A., Hileman, J., Ingold, K., Matous, P., Morrison, T. H., Nohrstedt, D., Pittman, J., Robins, G., & Sayles, J. (2019). Improving network approaches to the study of complex social-ecological interdependencies. *Nature Sustainability*, *2*, 551-559. https://doi.org/10.1038/s41893-019-0308-0
- 31. **Fischer, A. P.** (2019). Characterizing behavioral adaptation to climate change in temperate forests. *Landscape and Urban Planning, 188*, 72-79. https://doi.org/10.1016/j.landurbplan.2018.09.024
- 30. Fischer, A. P., Klooster, A.*, & Cirhigiri, L*. (2019). Cooperation across property boundaries to manage forest landscapes: collective action and social exchange among individual landowners. *Landscape and Urban Planning*, 188, 151-162. https://doi.org/10.1016/j.landurbplan.2018.02.004

- 29. **Fischer, A. P.** (2019). Adapting and coping with climate change in temperate forests. *Global Environmental Change, 54*, 160-171. https://doi.org/10.1016/j.gloenvcha.2018.10.011
- 28. Hamilton, M.*, **Fischer, A. P.**, & Ager, A. (2019). A social-ecological network approach for understanding wildfire risk governance. *Global Environmental Change*, *54*, 113-123. https://doi.org/10.1016/j.gloenvcha.2018.11.007
- 27. Hamilton, M.*, **Fischer, A. P.**, Guikema, S., & Keppel-Aleks, G. (2018). Behavioral adaptation to climate change in fire-prone forests. *Wires Climate Change*, *9*(6), e553. https://doi.org/10.1002/wcc.553
- Fischer, A. P. (2018). Forest landscapes as socioecological systems and implications for management. *Landscape and Urban Planning*, 177, 138-147. https://doi.org/10.1016/j.landurbplan.2018.05.001.
 ** Recognized as a "Most Downloaded Article" on the Landscape and Urban Planning website from November 2018 to April 2019.
- 25. **Fischer, A. P.** (2018). Pathways of adaptation to external stressors: implications for climate change in coastal natural resource-dependent communities. *World Development*, *108*, 235-248. https://doi.org/10.1016/j.worlddev.2017.12.007
- 24. **Fischer, A. P. &** Frazier, T. G. (2018). Social vulnerability to climate change in temperate forest areas: incorporating new measures of exposure, sensitivity, and adaptive capacity. *Annals of the American Association of Geographers*, *108*(3), 658-678. https://doi.org/10.1080/24694452.2017.1387046
- Kline, J. D., E. M. White, Fischer, A. P., Steen-Adams, M., Charnley, S., Olsen, C., Spies, T. A., & 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
- 22. **Fischer, A. P. &** Jasny, L. (2017). Capacity to adapt to environmental change: evidence from a network of organizations concerned with increasing wildfire risk. *Ecology and Society*, *22*(1), 23. https://doi.org/10.5751/ES-08867-220123
- Fischer, A. P., Spies, T. A., Steelman, T. A., Moseley, 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 of Ecology and the Environment*, 14(5), 1-9. https://doi:10.1002/fee.1283
- 20. **Fischer, A. P.**, Vance-Borland, K., Jasny, L., Grimm, K. E., & Charnley, S. (2016). A network approach to assessing social capacity for landscape planning: the case of fire-prone forests in Oregon, USA. *Landscape and Urban Planning, 147*, 18-27. https://doi:10.1016/j.landurbplan.2015.10.006
- 19. **Fischer, A. P. (**2015). A boundary-spanning organization for transdisciplinary science on land stewardship: The Stewardship Network. *Ecology and Society, 20*(4). https://doi.org/10.5751/ES-08121-200438

** Science and Practice in Ecology & Society Award, "Foundation for Scientific Symbiosis."

- Ager, A. A., Kline, J. D., & Fischer, A. P. (2015). Coupling the biophysical and social dimensions of wildfire risk to improve wildfire mitigation planning. *Risk Analysis*, 35, 1393-1406. https://doi.org/10.1111/risa.12373
- Paveglio, T. B., Moseley, C., Carroll, M. S., Williams, D. R., Davis, E. J., & Fischer, A. P. (2014). Categorizing the social context of the wildland urban interface: adaptive capacity for wildfire and community 'archetypes'. *Forest Science*, 61(2), 298-310. https://doi.org/10.5849/forsci.14-036
- 16. Olsen, C., Mazzotta, D., Toman, E., & **Fischer, A. P**. (2014). Communicating about smoke from wildland fire: challenges and opportunities for managers. *Environmental Management*, *54*(3), 571-582. https://doi.org/10.1007/s00267-014-0312-0
- Fischer, A. P., Vance-Borland, K., Burnett, K. M., Hummel, S., Creighton, J. H., Johnson, S. L., & Jasny, L. (2014). Does the social capital in networks of fish and fire scientists and managers suggest learning? *Society & Natural Resources*, 27(7), 671-688. https://doi.org/10.1080/08941920.2014.901463
- Spies, T. A., White, E. M., Kline, J. D., Fischer, A. P., Ager, A., Bailey, J., Bolte, J., Koch, J., Platt, E., Olsen, C. S., Jacobs, D., Shindler, B., Steen-Adams, M. M., & Hammer, R. (2014). Examining fire-prone forest landscapes as coupled human and natural systems. *Ecology and Society*, *19*(3). https://doi.org/10.5751/ES-06584-190309
 ** Recognized as a "Highly Cited Article" on the Landscape and Urban Planning website from March to April 2015.
- 13. **Fischer, A. P.**, Kline, J. D., Ager, A., Charnley, S. & Olsen, K. (2013). Objective and perceived wildfire risk and their influence on private forest owners' fuel treatment activities in Oregon's ponderosa pine region. *International Journal of Wildland Fire*, 22(8), 143-153. https://doi.org/10.1071/WF12164
- 12. **Fischer, A. P.,** Paveglio, T., Carroll, M., Murphy, D. & Brenkert-Smith, H. (2013). Assessing social vulnerability to climate change in human communities near public forests and grasslands: a framework for resource managers and planners. *Journal of Forestry, 111*(5), 357-365. https://doi.org/10.5849/jof.12-091
- Fischer, A. P., Korejwa, A., Koch, J., Spies, T. A., Olsen, C. S., White, E. M., & Jacobs, D. (2013). Using an agent-based social network model to investigate interactions between social and ecological systems: early reflections on the Forest, People, Fire project. *Practicing Anthropology*, 35(1), 8-13. https://doi.org/10.17730/praa.35.1.w7348256k283t131
- 10. **Fischer, A. P.**, Kline, J. D., Charnley, S., & Olsen, C. S. (2012). Identifying policy target groups with qualitative and quantitative methods: the case of wildfire risk on nonindustrial private forest lands. *Journal of Forest Policy and Economics*, *25*, 62-71. https://doi.org/10.1016/j.forpol.2012.08.008
- 9. **Fischer, A. P. &** Charnley, S. (2012). Risk and cooperation: reducing hazardous fuels on private forest lands in eastern Oregon. *Environmental Management, 49*(6), 1192-1207. https://doi.org/10.1007/s00267-012-9848-z

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- Fischer, A. P. & Charnley, S. (2012). Private forest owners and invasive plants in Oregon: risk perception and management. *Invasive Plant Science and Management*, 5(3), 375-398. https://doi.org/10.1614/IPSM-D-12-00005.1
- 7. **Fischer, A. P.** (2011). Reducing hazardous fuels on nonindustrial private forests: factors influencing landowner decisions. *Journal of Forestry, 109*(5), 260-266. https://doi.org/10.1093/jof/109.5.260
- 6. **Fischer, A. P.**, Bliss, J., Ingemarson, F., Lidestav, G., & Lönnstedt, L. (2010). From the small woodland problem to ecosocial systems: the evolution of social research on small-scale forestry in Sweden and the USA. *Scandinavian Journal of Forest Research*, *25*(4), 390-398. https://doi.org/10.1080/02827581.2010.498386
- 5. **Fischer, A. P. &** Charnley, S. (2010). Social and cultural influences on management for carbon sequestration on U.S. family forestlands: a literature synthesis. *International Journal of Forestry Research, 14.* https://doi.org/10.1155/2010/960912
- 4. **Fischer, A. P. &** Bliss, J. C. (2009). Framing conservation on private lands: conserving oak in Oregon's Willamette Valley. *Society and Natural Resources, 22*(10), 884-900. https://doi.org/10.1080/08941920802314926
- 3. **Fischer, A. P.** & Bliss, J. C. (2008). Behavioral assumptions of conservation policy: conserving oak habitat on family forestland in the Willamette Valley, Oregon. *Conservation Biology*, *22*(2), 275-283. https://doi.org/10.1111/j.1523-1739.2007.00873.
- Charnley, S., Fischer, A. P., & Jones, E. T. (2007). Integrating traditional and local ecological knowledge into forest biodiversity conservation in the Pacific Northwest. *Forest Ecology and Management*, 246, 14–28. https://doi.org/10.1016/j.foreco.2007.03.047
- 1. **Fischer, A. P. &** Bliss, J. C. (2006). Mental and biophysical terrains of biodiversity: conservation of oak woodland on family forests. *Society and Natural Resources, 19*(7), 625-643. <u>https://doi.org/10.1080/08941920600742393</u>

Manuscripts in prep, in review, and under revision

- 6. <u>Aumeier, M</u>. and **A. P. Fischer**. (In review). Resilience and Energy Transition Across Communities in a Fossil Fuel Dependent Region: A Wyoming Case Study. *For submission to Society and Natural Resources*.
- 5. <u>Ackerman, R., R. Neuenfeldt, T. Eggermont, M. Burbidge, J. Lehrman, N. Wells</u>, J. Wondolleck, **A. P. Fischer**. (In review). Coastal community resilience: a comparative case study in Oregon, USA. *Society and Natural Resources*.
- 4. <u>Sotnik, G.,</u> I. Ibanez, and **A. P. Fischer**. (In prep). Can Michigan's family forest owners and their forests co-adapt to climate-exacerbated Asian Longhorned Beetle (A. glabripennis) infestations? *For submission to Landscape Ecology*.
- 3. <u>Russo, M</u>. and A. P. Fischer. (In prep). Resilient group cognitions: understanding dynamic transformations in group cognitive structures to facilitate social learning. *Ecology and Society*.
- 2. <u>Russo, M.</u> and A. P. Fischer (In prep). Analyzing social narratives to inform coproduction practices. *Environmental Science and Policy*.
- 1. **Fischer, A. P.** & <u>Denny, R. C. H</u>. (In prep). Wildfire experiences and risk perceptions and responses over time: A panel study in Oregon, USA.

Books and Book Chapters

- Flitcroft, R., Cerveny, L., Bormann, B., Smith, J., Asah, S., & Fischer, A. P. (2017). From involvement to participation, the emergence of watershed and forest collaboratives. In Olson, D., & VanHorne, B. (Eds.), *People, Forests, and Change: Lessons from the Pacific Northwest* (116-133). Washington D.C.: Island Press.
- Bliss, J. C. & Fischer, A. P. (2011). Toward a political ecology of ecosystem restoration. In Egan, D. J., Hjerpe, E., & Abrams, J. (Eds.), *Integrating Nature and Culture: Exploring the Human Dimensions of Ecological Restoration* (136-148). Washington D.C.: Island Press.

Other Published Materials

- 6. **Fischer, A.P.** (2018). Good neighbors working across fences to solve landscape-scale problems. Northwest Woodlands. *Northwest Woodlands*, *34*(4), 5pp.
- 5. Kline, J. D., Ager, A. A., & Fischer, A. P. (2016). A conceptual framework for coupling the biophysical and social dimensions of wildfire to improve fireshed planning and risk mitigation. In *Proceedings of the 13th International Wildland Fire Safety Summit & 4th Human Dimensions of Wildland Fire Conference,* April 20-24, 2015, Boise, Idaho. Published by the International Association of Wildland Fire, Missoula, Montana, 204 pp.
- 4. Hummel, S., **Fischer, A. P.**, Lowell, E., & Lehmkuhl, J. (2015). Social trends affecting successful implementation of forest restoration guidelines. In *Silviculture and monitoring guidelines for integrating restoration of dry mixed-conifer forest and spotted owl habitat management in the Eastern Cascade range*, Gen. Tech. Rep. PNW-GTR-915. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station, Portland, OR. 158 pp.
- 3. Charnley, S., **Fischer, A. P.,** & Jones, E. T. (2008). Traditional and local ecological knowledge about forest biodiversity in the Pacific Northwest. Gen. Tech. Rep. PNW-GTR-751. Portland, OR: U.S. Department of Agriculture, Forest Service, Pacific Northwest Research Station. 52 pp.
- 2. **Fischer, A. P. & Bliss, J. C. (2006).** Oak in the Valley: A case study of private forest conservation in the United States. In *Proceedings of the IUFRO 3.08 Small-scale Forestry International Symposium: Small-scale Forestry and Rural Development: The Intersection of Ecosystems, Economics and Society*, June 18-23, 2006, Galway, Ireland.
- 1. **Fischer, A. P.** (2005). Listening to landowners: conservation case studies from Oregon's Willamette Valley. West Linn, OR, Defenders of Wildlife: 39 p.

Research Funding

Current Grants

5. Models for Native Fire Restitution and Elevation of Tribal Fire Priorities in Federal Land Management. McIntire-Stennis Cooperative Forestry Research Program, USDA NIFA. Project. \$149,672. 2023-2025. Co-PI with PI Kyle Whyte and Co-PIs E. Clark (Sault Ste. Marie Tribe); D. Fegan (Sault Ste. Marie Tribe); E. Rebitzke (U.S. Forest Service); R. Clark (Lake Superior State University); P. Thompson (U.S. Forest Service).

- 4. Western Forest and Fire Initiative. Charitable Gift from the Kathy and Steve Berman Family. \$750,000. 2021-2025. (PI)
- 3. Cognitive, social, and institutional dynamics of decision-making in complex hazardprone environments. National Science Foundation. \$31,712. 2020-2023. (Co-PI).
- 2. Understanding Opportunities for Adapting to and Mitigating Risks Associated with Climate Change on Family Forestlands in the Pacific Northwest. USDA Forest Service, Pacific Northwest Research Station, \$109,000. 2020-2021. (PI).
- 1. Forecasting effects of forestry responses to climate change on landscape-scale forest structure and wildlife habitats. McIntire Stennis Project. \$151,074. 2020-2022. (Co-PI).

Completed Grants

- Human Adaptation to Climate change and Implications for Future Pacific Northwest Forests. USDA Forest Service, Pacific Northwest Research Station, \$38,894. 2019-2020. (PI).
- Impacts of Socio-Ecological Adaptation to Global Change on Forests Ecosystems. USDA National Institute of Food and Agriculture, McIntire Stennis Project 1011135. \$138,550.
 2018-2020. (Co-PI with Inés Ibáñez, University of Michigan, School for Environment and Sustainability.)
- 19. Scientific Knowledge Networks for Natural Resource Management: Forest Service Rocky Mountain Research Station scientists, managers and stakeholders, USDA Forest Service Rocky Mountain Research Station. \$44,542. 2016-2021. (PI)
- Understanding the Wildfire Risk Perceptions and Mitigation Practices of Nonindustrial Private Forest Owners: A Proposal for Research in the Lake States of Minnesota, Wisconsin and Michigan. USDA Forest Service Northern Research Station. \$52,000. 2015-2020. (PI)
- 17. Improving Frameworks for Assessing Social Vulnerability to Climate Change in Temperate Forest Regions: New Indicators of Adaptive Capacity. Catalyst Grant. University of Michigan Graham Sustainability Institute. \$10,000. 2019. (PI, with Co-PI Wayne Baker, University of Michigan, Ross School of Business.)
- Transforming Sustainability Education and Case-Based Teaching. Transforming Learning for a Third Century. Rackham Graduate School, University of Michigan.
 \$1,595,749. 2015-2019. (PI: A. Agrawal; Co-PIs: A.P. Fischer and seventeen faculty investigators.)
- 15. Private Forest Landowner Collaboration for Restoring Fire-Prone Forests in the US West. USDA Forest Service Pacific Northwest Research Station. \$106,486. 2014–2020. (PI)
- 14. Factors in Forest Management to Protect Carbon Sinks on Private Forestland in the Great Lakes Region. University of Michigan Energy Institute. \$20,000. 2017-2018. (PI, with Co-PI B. Currie, University of Michigan, School of Natural Resources and Environment.)

- 13. Modeling Socio-ecological Adaptation to Climate Change in Temperate Forests. Catalyst Grant. University of Michigan Graham Sustainability Institute. \$10,000. 2017. (PI, with Co-PIs S. Guikema, University of Michigan, Department of Industrial and Operations Engineering, G. Keppel-Aleks, University of Michigan, Department of Climate and Space Sciences and Engineering, and B. Currie, University of Michigan, School of Natural Resources and Environment.)
- Human Adaptation to Climate Change and Effects on Upper Midwest Forests. USDA National Institute of Food and Agriculture, McIntire Stennis Project 1011135. \$140,000.
 2016-2018. (PI with Co-PI B. Currie, University of Michigan, School of Natural Resources and Environment.)
- 11. Human Adaptation to Climate Change in Forest Ecosystems. University of Michigan, MCubed Program. \$60,000. 2016-2017. (Co-PI with S. Guikema, University of Michigan, Department of Industrial and Operations Engineering, and G. Keppel-Aleks, University of Michigan, Department of Climate and Space Sciences and Engineering.
- Assessing the Potential to Protect and Enhance Carbon Sinks on Nonindustrial Private Forestland in the Northern Great Lakes Region. University of Michigan Energy Institute.
 \$20,000. 2016-2017. (PI with Co-PI B. Currie, University of Michigan, School of Natural Resources and Environment.)
- 9. Linking Social and Ecological Embeddedness, Wildfire Risk, and Collective Action. National Science Foundation. SBE-1715053. \$69,000. August 2017 to July 2019 (Co-PI with PI M. Hamilton.)
- 8. Coastal Community Resilience. Oregon Department of Fish and Wildlife. \$24,485. 2015-2016. (PI)
- Forest Governance, Social Networks and Landscape Dynamics in the Western Cascades. Oregon State University. 2015-2017. \$28,897. Sub-award to Long-Term Ecological Research at the H.J. Andrews Experimental Forest (LTER7). National Science Foundation, \$6,762,000. 2014–2020. Senior Personnel with PI M. Nelson (Oregon State University) and Co-PIs S. Johnson, H. Gosnell, M. Betts, J. Jones).
- 6. Fostering Healthy Forests in Mixed Ownership Landscapes: Social Constraints and Opportunities for Management across Property Boundaries by Private Owners. USDA National Institute of Food and Agriculture, McIntire Stennis Project 1003473. \$55,000. 2014–2016. (PI)
- 5. The Coupled Human and Natural Systems Concept as a Basis for Evaluating Sustainability and Adaptation in Fire-Prone Landscapes. USDA Forest Service, PNW Focus Area Proposal 1826501. \$75,000. 2012. (PI: Spies, T., Co-PIs: **Fischer, A. P.**, Charnley, S., and Kline, J. D.)
- 4. Social Networks for the Communication of Information and Knowledge among Federal Fish and Fire Scientists and Managers. USDA Forest Service. \$170,000. 2010. (PI: Burnett, K., Co-PIs: **Fischer, A. P**., Hummel, S. Sherri Johnson, Vance-Borland, K., and Creighton, J.)
- 3. Coupled Natural and Human Systems in Fire-Prone Landscapes: Interactions, Dynamics, and Adaptation (Forest, People, Fire). National Science Foundation. CNH- 3114664.

\$1,499,950. 2010-2014. (PI: Bolte, J. Co-PIs: T. Spies, H. Albers, B. Steel. Senior Personnel: Fischer, A. P. and others.)

- 2. Traditional Ecological Knowledge and Management of Biodiversity. USDA Forest Service Pacific Northwest Research Station. 2005. (Research contract).
- 1. Listening to Landowners: Conservation Case Studies from Oregon's Willamette Valley. Defenders of Wildlife. 2004. (Research contract).

Formal Collaborations

- 3. Assessment of Socio-Economic Vulnerability to Climate-Related Changes in Forests and Grasslands in the U.S. Northwest funded by USDA Forest Service Region 6 and Western Wildland Environmental Threat Assessment Center, 2012-present. Co-PI with M. Hand, USDA Forest Service Rocky Mountain Research Station.
- 2. Understanding the Roles of Socioeconomic Vulnerability, Adaptive Capacity, and Mitigation in Determining Economic Impacts of Wildfire, funded by the National Institute of Food and Agriculture, 2012. Co-collaborator with C. Moseley and others.
- 1. Examining the Influence and Effectiveness of Communication Programs and Community Partnerships on Public Perceptions of Smoke Management: A Multi-Region Analysis, funded by the Joint Fire Science Program, 2010. Co-collaborator with E. Toman and C. S. Olsen.

Scholarly Presentations

Invited Talks

- 35. Wildfires and community well-being. 2023. *Center for Global Health Equity 2023-2024 Distinguished Seminar Series Climate Vulnerability and Health—How are we Responding? University of Michigan – Ann Arbor*, November 17, 2023
- 34. El problema mundial de los incendios forestales: experiencias y perspectivas desde el oeste de Estados Unidos. 2023. *Universidad Austral de Chile*. April 25, 2023.
- Sustaining Fire-Adapted Forest Ecosystems through Collective Management. 2021. *Forest and Wildlife Ecology Spring Seminar Series*, University of Wisconsin – Madison, March 19, 2021.
- 32. Private Forest Owners and the Changing Northwoods. 2020 The Stewardship Network, Webinar Series, February 12, 2020
- Sustaining Fire-Adapted Forest Ecosystems through Collective Management. 6th Annual Burning Issues Workshop & 20th Michigan Prescribed Fire Council Annual Meeting, Battle Creek, MI. February 4-5, 2020.
- Addressing scale mismatches through coordinated land management across ownership boundaries. *Kent State University Department of Geography Speaker Series*. January 26, 2018.
- 29. Coevolution in socio-ecological networks: Evaluating socio-ecological connectivity in fire-prone forests and implications for management. *Workshop on Socio-Ecological*

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Networks, Stockholm Resilience Center, Stockholm, Sweden. August 2017.

- 28. Addressing scale mismatches through coordinated land management across ownership boundaries. *Central Michigan University Department of Geography Speaker Series*. March 21, 2017.
- 27. Good fences, good neighbors? Coordination across property boundaries among private land owners. *Lake States Fire Science Consortium Webinar Series*. October 20, 2016.
- 26. Networks and their use to facilitate organizational learning and improving natural resource governance. *USDA Forest Service National Leadership Council Meeting*, Salt Lake City, UT. May 17, 2016.
- 25. Understanding socio-ecological sustainability through study of human adaptation behavior. *5th Annual Graduate Student Research Symposium*. Department of Forestry, Michigan State University. February 11, 2016.
- 24. Addressing natural resource management challenges using a social network approach: The case of fish in fire-prone landscapes in the US Pacific Northwest. *Department of Forestry Graduate Seminar Series, Purdue University*. October 27, 2015.
- 23. Addressing natural resource management challenges using a social network approach: The case of fish in fire-prone landscapes in the US Pacific Northwest. *Applied Conservation Network Analysis Community of Practice Webinar Series*, The Conservation Planning Institute. October 7, 2015.
- 22. Addressing fish and wildlife management challenges using a social network approach: The case of fish in fire-prone landscapes in the US Pacific Northwest. *Department of Fisheries and Wildlife Seminar*, Michigan State University. March 18, 2015.
- 21. Beyond boundaries: Social challenges and opportunities in forest landscape management. *Oregon State University College of Forestry Starker Lecture Series*. April 24, 2014.
- 20. Risk and cooperation: Restoring fire-prone forests in mixed-ownership landscapes. Department of Conservation Social Sciences, University of Idaho. December 10, 2013.
- 19. Understanding socio-ecological sustainability through the study of human adaptation behavior. School of Natural Resources and Environment, University of Michigan. November 21, 2013.
- Adaptive capacity within a network of organizations responding to wildfire risk. Department of Environmental Science and Management, Portland State University. May 13, 2013.
- 17. Community social networks in natural resource contexts. *Willamette National Forest and Central Cascades Adaptive Management Partnership Workshop on Natural Resource Issues and the Public.* May 7, 2013.
- 16. Assessing social vulnerability to climate change in public forest and grassland contexts. Oregon Climate Change Research Institution and the Oregon State University Environmental Humanities Initiative Spring Seminar Series. April 25, 2013.

- 15. Risk and cooperation: Social challenges to restoring the fire-prone ponderosa pine ccotype on private land. *Oregon Board of Forestry, Committee for Family Forestlands*. April 17, 2013.
- 14. Private forest owners and invasive plants: Risk perception and management. *Annual Meeting of the Washington State Weed Coordinator's Association*. March 15, 2013.
- 13. Risk and cooperation: Social challenges to restoring the fire-prone ponderosa pine ecotype on private land. *Oregon State University Plant Science Seminar Series*. January 24, 2013.
- 12. Collaboration to build adaptive capacity: Considerations for process and structure of vulnerability assessments. *Forest Community Vulnerability and Adaptive Capacity in the Context of Climate Change workshop*, University of Montana. November 2, 2011.
- 11. How do private landowners perveive and address wildfire and invasive plant risks?: A case study of Oregon's ponderosa pine zone. *National Resource Conservation Service's Oregon State office Lunch and Learn series.* November 3, 2011.
- 10. Factors in the mitigation of fire risk and provision of carbon sequestration and other ecoystem services on family forestlands. *World Affairs Council*, Portland, OR. May 11, 2010,
- 9. Managing fire risk on private land: The perspectives and practices of family forest owners in eastern Oregon's ponderosa pine zone. *Meeting of the Klamath Lake Forest Health Partnership*, Klamath Falls, OR. March 29, 2010.
- 8. Wildland fire and family forestlands in eastern Oregon. *Rural Issues Seminar Series*, Department of Sociology and Department of Agricultural and Resource Economics, Oregon State University. February 27, 2008.
- 7. Oak conservation in Oregon's Willamette Valley. *Achievement Rewards for College Scientists (ARCS) Foundation*, Oregon Garden, Silverton, OR. September 29, 2007.
- 6. Land trusts and landowners: Working together to conserve threatened habitats in the Willamette Valley (with J.C. Bliss and K. McCabe). *Sustainable Forestry Partnership Discovery Seminar Series*, Oregon State University..April 19, 2006.
- 5. Family forest owners' conceptions of biodiversity in the oak ecotype of western Oregon: Implications for policy and future research. *Oregon Oaks Communities Working Group*. February 17, 2005.
- 4. Mental and biophysical terrains of biodiversity: Conserving oak on family forests. U.S. *Fish and Wildlife Service,* Portland, OR. June 16, 2004.
- 3. Family forest owners' conceptions of biodiversity in the oak ecotype of western Oregon. Family Forestlands Advisory Committee of the Oregon Board of Forestry. February 18, 2004.
- 2. Family forest owners' conceptions of biodiversity in the oak ecotype of western Oregon. *Oregon Chapter of the Wildlife Society*. February 12, 2004. (Winner, Best Student Presentation).

1. Family frests, at-risk plants and the Endangered Species Act, *Oregon State University Biodiversity Group Seminar Series*. April 21, 2003.

Conference Presentations

As first author and presenter unless otherwise indicated

- 69. (with M. Gonzalez and G. Saavedra). When Community Adaptation Requires Transformation. *10th International Fire Ecology and Management Congress*, Monterey, California, December 4-8, 2023.
- 68. (with M. Gonzalez and G. Saavedra). Community Adaptation to Wildfire Risk in the context of Broader Institutional Constraints. *Annual Meeting of the International Association for Society and Natural Resources*, Portland, Maine, June 11-15, 2023.
- 67. Adaptación a los incendios forestales: experiencias y perspectivas desde el oeste de Estados Unidos. Workshop Internacionale. Chile en Llamas 2023: Es Possible Prevenir Los MegaIncendios. Universidad Conception, Conception, Chile. El 2 y 3 de Mayo, 2023.
- 66. (with F. N. Santana (presenter), S. A. Bell, H. R. Huber-Stearns, N. H. F. French. Behavioral adaptation to compound climate stressors: the case of wildfire in the American West. *Annual Meeting of the American Association of Geographers*. Denver, CO, March 23-27, 2023.
- 65. (With Denny, R. C. H., (presenter)). Wildfire experience and risk perceptions among family forest owners in the Western Pacific Northwest, USA: A preliminary analysis. *Annual Meeting of the International Association for Society and Natural Resources*, San Jose, Costa Rica, June 26-30, 2023.
- 64. (With Gardella, A. (presenter)). An Agent Based Modeling approach to understand household wildfire risks and costs. *International Association on Wildland Fire* Fire & Climate Conference, Pasadena, CA, May 23-27, 2022.
- 63. (With Russo, M. (presenter)). An anthology of wildfire narratives. Coproducing understandings of wildfire causes, solutions, and evidence. *International Association on Wildland Fire* Fire & Climate Conference, Pasadena, CA, May 23-27, 2022.
- 62. (With Denny, R. C. H.) Are Family Forest Owners Adapting to Changing Wildfire Risk?: A Panel Study in Oregon, USA. *International Association on Wildland Fire* Fire & Climate Conference, Pasadena, CA, May 23-27, 2022.
- 61. (With Holm, F. (presenter)). Combining multiple data sources for actor identification in environmental governance networks. *Annual Meeting of the American Association of Geographers*, virtual meeting to replace New York, NY. February 25–March 1, 2022.
- 60. (With Denny, R. C. H., (presenter)). Wildfire experiences and risk perceptions and responses over time: A panel study in Oregon, USA. *Annual Meeting of the American Association of Geographers*, virtual meeting to replace New York, NY. February 25–March 1, 2022.
- 59. (With Denny, R. C. H. and L. Mitchell). How Private Forest Landowners Perceive Climate Change Impacts: A Link in Social-Ecological Adaptation. *Annual Meeting of the*

American Association of Geographers, virtual meeting to replace Seattle, WA. April 7-April 11, 2021.

- 58. (With Denny, R. C. H. (presenter)). Wildfire risk perceptions and responses over time: A panel study in Oregon, USA. *Annual Meeting of the American Association of Geographers*, virtual meeting to replace Seattle, WA. April 7- April 11, 2021.
- 57. (With Denny, R. C. H.) Behavioral adaptation to climate change: Risk experience and risk appraisal in the context of managed forests. *Annual Meeting of the American Association of Geographers*, virtual meeting to replace Denver, CO. April 7-11, 2020.
- 56. (With Russo, M. (presenter)). May 2019. Does a Shared Understanding Blind Groups to Surprise? Towards a Theory of an Adaptive Group Cognition. The Science of Team Science (INSciTS). Lansing, MI.
- 55. (With Charnley, S. and Kelly, E.) Fostering healthy forests and communities through collective action on wildfire risk reduction. *Sustainability and Development Conference*, Ann Arbor, MI. October 11-14, 2019.
- 54. Social-ecological adaptation to climate change in temperate forests. *Fifth Annual Forests and Livelihoods (FLARE) meeting*, Ann Arbor, MI. August 23-25, 2019.
- 53. Social-ecological adaptation to climate change in temperate forests. *International Symposium on Society and Resource Management*, Oshkosh, WI. June 3-6, 2019.
- 52. Social-ecological adaptation to climate change in temperate forests. *Annual Meeting of the American Association of Geographers*, Washington, D.C. April 2-7, 2019.
- 51. Adaptation to environmental change among individual forest owners in the northwoods. *Great Lakes Adaptation Forum*, Ann Arbor, MI. September 26, 2018.
- 50. Defining individual adaptation to climate change: Insights from family forest owners. *International Symposium on Society and Resource Management*, Snowbird, Utah. June 18-21, 2018.
- 49. (With Hamilton, M. (presenter) and Ager, A.) Using social-ecological networks to assess alignment of risk interdependence and coordination among forest managers in a wildfire-prone ecosystem. *AFE-IAWF Fire Continuum Conference*, Missoula, Montana. May 21-24, 2018.
- 48. Defining individual climate change adaptation: Insights from temperate forest landscapes. *Annual Meeting of American Association of Geographers*, New Orleans, LA. April 9-14, 2018.
- 47. (With Hamilton, M. (presenter) and Ager, A.) 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. April 10-14, 2018.
- 46. (With Hamilton, M. (presenter) and Ager, A.) Risk interdependence and alignment of social and ecological networks in fire-prone forests. *Fire Continuum Conference*, Missoula, MT. May 21-24, 2018

- 45. (With Hamilton, M., presenter, and Ager, A.) Network perspectives on risk assessment: insights from the Eastern Cascades, Oregon. *Cohesive Wildland Fire Management Strategy Workshop*, Reno, NV. March 26-29, 2018.
- 44. Evaluating socio-ecological connectivity in fire-prone forests and implications for adaptive capacity. *Resilience 2017*, Stockholm Waterfront Congress Centre, Stockholm, Sweden. August 20-23, 2017.
- 43. (With Hamilton, M., presenter, and Ager, A.) Institutional fit and wildfire risk governance. *Political Networks Conference*, Columbus, OH. June 14-17, 2017.
- 42. Sustaining forest ecosystems through collective management: Social barriers and facilitators to cross-boundary coordination on landscape scale. *Sustainability and Social Science Research Symposium*, University of Michigan, Ann Arbor, MI. May 17-19, 2017.
- 41. (With Hamilton, M., presenter) 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. April 5-9, 2017.
- 40. Addressing scale mismatches through coordinated land management across ownership boundaries. *Annual Meeting of the American Association of Geographers*, Boston, MA. April 5-9, 2017.
- 39. (With Klooster, A., and Cirhigiri, L.) Good fences, good neighbors? Coordination across property boundaries among private land owners. *Annual Meeting of Forests & Livelihoods: Assessment, Research, and Engagement (FLARE)*, University of Edinburgh, U.K. December 2-5, 2016.
- 38. (With Klooster, A. and Cirhigiri, L.) Adaptation to climate change through crossboundary cooperation on forest management. *Great Lakes Adaptation Forum*, Ann Arbor, MI. October 5-7, 2016.
- 37. (With Frazier, T.) Assessing social vulnerability to climate change in temperate forest areas: The case of the Pacific Northwest, USA. *International Symposium for Society and Resource Management*, Houghton, MI. June 22-26, 2016.
- 36. (With Klooster, A. and Cirhigiri, L.) Good Fences, good neighbors? Coordination across property boundaries among private land owners. *International Symposium for Society and Resource Management*, Houghton, MI. June 22-26, 2016.
- 35. (With Frazier, T.) Extending a social vulnerability assessment framework from natural hazards to climate change: The case of forested areas in the Pacific Northwest, USA. *Annual Meeting of the Association of American Geographers*, San Francisco, CA. March 29-April 2, 2016.
- 34. (With Frazier, T.) Merging biophysical and socioeconomic indicators into a more holistic vulnerability model: A climate change driven case study of Oregon and Washington. *Annual Meeting of the Association of American Geographers*, San Francisco, CA. March 29-April 2, 2016.
- 33. (With Eggermont, T., presenter, Neuenfeldt, R., and Wondolleck, J.) Assessing the adaptive capacity of coastal communities to respond to external stressors. *Social Coast Forum*, Charleston, SC. February 9-11, 2016.

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- 32. (With Brush, L.) Ecology and Society: Spanning boundaries to bring transdisciplinary science into practice. *The Science, Practice & Art of Restoring Native Ecosystems*, East Lansing, MI. January 15-16, 2016.
- 31. (With Jasny, L.) The role of organizational networks in landscape-scale planning and management for fire-prone forests. *International Symposium for Society and Resource Management*, Charleston, SC. June 14-18, 2015.
- 30. (With Hand, M., Frazier, T., & Reber, J.) Socio-economic vulnerability to climate-related changes in forests and grasslands in the U.S. Northwest. *International Symposium for Society and Resource Management*, Charleston, SC. June 14-18, 2015.
- 29. (With Jasny, L., and Grimm, K.) Capacity to adapt to increasing wildfire risk in a network of natural resource organizations. *Annual Meeting of the Association of American Geographers*, Chicago, IL. April 20-16, 2015.
- 28. (With Reber, J., Frazier, T., and Hand, M.) Assessing socioeconomic vulnerability to climate-change-impacts on forest ecosystems: A case study of the Pacific Northwest. *Annual Meeting of the Association of American Geographers*, Chicago, IL. April 20-16, 2015.
- 27. (With Kline, J. D., presenter, and Ager, A. A.) A conceptual framework for coupling the biophysical and social dimensions of wildfire to improve fireshed planning and risk mitigation. *13th International Wildland Fire Safety Summit & 4th Human Dimensions of Wildland Fire Conference*, Boise, ID. April 20-24, 2015.
- 26. A social network approach to understanding fire-prone landscapes. *Coupled Human and Natural Systems in Fire-Prone Landscapes: Interconnections and Research Needs*, Bend, OR. August 4-7, 2014.
- 25. (With Vance-Borland, K., Jasny, L., and Grimm, K.) Capacity to adapt to environmental change in governance networks: A case from a fire-prone landscape in Oregon. *Annual Meeting of the Association of American Geographers*, Tampa, FL. April 8-12, 2014.
- 24. (With Vance-Borland, K., Jasny, L., and Grimm, K.) Social networks and the management of fire-prone landscapes. *Association for Fire Ecology Central Oregon Fire Science Symposium*, Bend, OR. April 7-10, 2014.
- 23. Adaptive capacity within a network of organizations responding to wildfire risk. *International Symposium for Society and Resource Management*, Estes Park, CO. June 4-8, 2013.
- 22. (With Kline, J. D., presenter, and Ager, A. A.) Characterizing private landowners' fuel reduction activities for coupled systems modeling in Oregon's (USA) ponderosa pine ecoregion. 28th Annual Landscape Ecology Symposium, US-International Association of Landscape Ecology, Austin, TX. April 14-18, 2013.
- 21. Cross-boundary cooperation and wildfire risk: Private landowners in eastern Oregon. International Union of Forest Research Organizations, Small Scale Forestry Conference, Amherst, MA. September 24-27, 2012.

- 20. (With Vance-Borland, K.) Social networks for the communication of science: The federal fish and fire scientist and manager network. *Third Human Dimensions of Widland Fire Conference*, Seattle, WA. April 17-19, 2012.
- 19. (With Bliss, J. C., presenter) Climate change, forestland tenure, and vulnerability of small-scale forestland ownerships in the U.S. Pacific Northwest. *International Union of Forest Research Organizations, Small-scale Forestry Conference*, Freiburg, Germany. July 24-28, 2011.
- 18. (With Spies, T., and Bolte, J.) Free agents and social networkers: Modeling individual decision making within social contexts in fire-prone ecosystems. *International Symposium for Society and Resource Management*, Madison, WI. June 4-8, 2011.
- 17. (With Spies, T. A., and Bolte, J.) Modeling socio-ecological adaptation in fire-prone landscapes. *Society for Applied Anthropology*, Seattle, WA. March 29-April 2, 2011.
- 16. Opportunities for wildfire risk mitigation on private forest lands: Identifying policy target groups with qualitative and quantitative methods. *Human Dimensions of Wildland Fire Conference*, San Antonio, TX. April 26-29, 2010.
- 15. Risk perception and cross-boundary cooperation in fire-prone ecosystems: Private forest owners in eastern Oregon. *International Symposium on Society and Resource Management*, Corpus Christi, TX. June 2010.
- 14. Products and services from the management of fire-adapted forests: The perspectives and practices of family forest owners in eastern Oregon (published abstract). *IUFRO 3.08 Small Scale Forestry Symposium*, Morgantown, WV. June 7-11, 2009.
- (With Charnley, S., and Spies, T. A.) Managing fire risk across ownership boundaries: Hazardous fuels reduction on family forest lands in Oregon's ponderosa pine zone. Association for Fire Ecology and California Association for Fire Ecology, San Diego, CA. December 1-4, 2008.
- 12. (With Charnley, S. and Spies, T. A.) Managing for fire and forest biodiversity in the Pacific Northwest: A comparison of federal and family forest lands. *22nd Annual Meeting of the Society for Conservation Biology*, Chattanooga, TN. July 11-17, 2008.
- 11. (With Charnley, S.) Fire resilience and biodiversity: Tensions in family forest owners' ideas about forest conditions in Eastern Oregon. *14th International Symposium on Society and Resource Management*, Burlington, VT. June 10-14, 2008.
- 10. (With Bliss, J. C., Christofferson, N., and Abrams, J.) Community forestry research fellowships: Ten-year assessment and future prospects. *Seventh Biennial Conference on University Education in Natural Resources,* Corvallis, OR. April 21, 2008.
- 9. (With Charnley, S.) Managing wildland fire on family forestlands in eastern Oregon. *Human Dimensions of Wildland Fire Conference*, Fort Collins, CO. October 23-25, 2007.
- 8. Private forests, public policy: Conserving oak in Oregon's Willamette Valley. *12th International Symposium on Society and Resource Management*, Burnaby, British Columbia, Canada. June 3-8, 2007.

- 7. (With McCabe, K., and Ahr, M.) Conservation easements: A tool for private forest owners. *Seventeenth annual Oregon State University Extension Clackamus County Tree School*, Clackamus Community College, Oregon City, OR. March 24, 2007.
- 6. (With Novick, A., Mormon, D., and Nelson, M.) Regulatory disincentives and conservation of Oregon white oak. *Annual meeting of the Oregon Planning Institute*, University of Oregon, Eugene, OR. September 15, 2006.
- 5. (with Bliss, J. C.) Oak in the valley: A case study of private forest conservation in the United States (published proceedings). *IUFRO 3.08 Small Scale Forestry Symposium*, Galway, Ireland. June 18-23, 2006.
- 4. From the ground up: Conservation of at-risk ecotypes based on the knowledge, motivations and capacities of family forest owners. *Ford Foundation Community Forestry Fellowship Program Workshop*, Sonoma, CA. September 9-13, 2005.
- 3. From the ground up: Conservation of at-risk ecotypes based on the knowledge, motivations and capacities of family forest owners. *Ford Foundation Community Forestry Fellowship Program Workshop*, Neshkoro, WI. September 9-13, 2004.
- 2. (With Bliss, J. C.) Mental and biophysical terrains of biodiversity: Conserving oak on family forests. *IUFRO 3.08 Small-scale Forestry Symposium*, Pullman, WA. March 29-April 1, 2004.
- (With Bliss, J. C.) From the ground up: Non-industrial private landowners' conceptions of ecosystem health (published abstract). *Society for Applied Anthropology*, Portland, OR. March 19-23, 2003.

Conference Sessions Organized or Chaired

- 26. Human Dimensions of Global Change Specialty Group Business Meeting (chair and organizer). *Annual Meeting of the American Association of Geographers*, virtual meeting to replace New York, NY. February 25–March 1, 2022.
- 25. Human Dimensions of Global Change Specialty Group Awards Ceremony (chair and coorganizer). *Annual Meeting of the American Association of Geographers*, virtual meeting to replace New York, NY. February 25–March 1, 2022.
- 24. Taking Stock of Human Dimensions of Global Change I (chair and co-organizer). *Annual Meeting of the American Association of Geographers*, virtual meeting to replace New York, NY. February 25–March 1, 2022.
- 23. Taking Stock of Human Dimensions of Global Change II (chair and co-organizer). Annual Meeting of the American Association of Geographers, virtual meeting to replace New York, NY. February 25–March 1, 2022.
- 22. Social-Ecological Dynamics of Wildfire Risk (organizer and chair). *Annual Meeting of the American Association of Geographers*, virtual meeting to replace Seattle, WA. February 25–March 2, 2021.
- 21. Understanding Adaptation Behavior at Local Levels: How do *People* Adapt to Climate Change? (co-organizer). *Annual Meeting of the American Association of Geographers*,

Annual Meeting of the American Association of Geographers, virtual meeting to replace Denver, CO. April 7-11, 2020.

- 20. Rural Land Systems and Landscapes II (chair). *Annual Meeting of the American Association of Geographers* Washington, D.C. April 2-7, 2019.
- 19. Human Dimensions of Global Change Specialty Group Awards Ceremony (discussant/presenter in honor of Karen O'Brien and Susan Cutter). *Annual Meeting of the American Association of Geographers*, Washington, D.C. April 2-7, 2019.
- 18. Understanding Resilience and Adaptation using Social-ecological Network Analysis (organizer). *Annual Meeting of the American Association of Geographers*, Washington, D.C. April 2-7, 2019.
- 17. Understanding Landscape Change through Individual Decision-Making: Recent Research on Family Forest Owners in the United States (organizer and chair). *International Symposium on Society and Resource Management*, Snowbird, Utah, June 18-21, 2018.
- 16. How do People Adapt to Climate Change? Understanding Adaptation Behavior at Local Levels (organizer and chair). *Annual Meeting of American Association of Geographers*, New Orleans, LA. April 9-14, 2018.
- 15. Network Perspectives on Adaptation and Resilience in Social-Ecological Systems: I (organizer). *Annual Meeting of American Association of Geographers*, New Orleans, LA. April 9-14, 2018.
- 14. Network Perspectives on Adaptation and Resilience in Social-Ecological Systems: II (organizer). *Annual Meeting of American Association of Geographers*, New Orleans, LA. April 9-14, 2018.
- 13. Climate Vulnerability and Adaptation I: Vulnerability Planning and Decision-Making (organizer). *Annual Meeting of American Association of Geographers*, New Orleans, LA. April 9-14, 2018.
- 12. Climate Vulnerability and Adaptation II: Practices of Adaptation (organizer). *Annual Meeting of American Association of Geographers*, New Orleans, LA. April 9-14, 2018.
- 11. Climate Vulnerability and Adaptation III: Conceptualizing Vulnerability, Resilience, and Adaptation (organizer). *Annual Meeting of American Association of Geographers*, New Orleans, LA. April 9-14, 2018.
- 10. Climate Vulnerability and Adaptation V: Land Use, Recreation, and Migration (organizer and chair). *Annual Meeting of American Association of Geographers*, New Orleans, LA. April 9-14, 2018.
- 9. Climate Vulnerability and Adaptation VI: Urban Socio-Ecological Systems (organizer). Annual Meeting of American Association of Geographers, New Orleans, LA. April 9-14, 2018.
- 8. Scale Mismatch and the Challenge of Managing Natural Resources Using Socially- and Ecologically-Coherent Geographic Units (organizer and chair). *Annual Meeting of the American Association of Geographers*, Boston, MA. April 5-9, 2017.

- 7. Assessing Social Vulnerability to Climate Change: Lessons from Recent Research on Integrating Exposure, Sensitivity and Adaptive Capacity (organizer and chair). *Annual Meeting of the Association of American Geographers*, San Francisco, CA. March 29-April 2, 2016.
- 6. Assessing Social Vulnerability to Climate Change: Lessons from Recent Work in Coastal and Inland Contexts (organizer and chair). *International Symposium for Society and Resource Management*, Charleston, SC. June 14-18, 2015.
- 5. Social Networks and Adaptation to Environmental Change, I (organizer and chair). Annual Meeting of the Association of American Geographers, Chicago, IL. April 20-16, 2015.
- 4. Social Networks and Adaptation to Environmental Change, II (organizer). *Annual Meeting of the Association of American Geographers*, Chicago, IL. April 20-16, 2015.
- 3. Vulnerability and Adaptive Capacity in the Context of Climate Change (co-organizer and co-chair). *International Symposium for Society and Resource Management*, Estes Park, CO. June 4-8, 2013.
- Social Adaptive Capacity in Fire Prone Ecosystems (co-organizer and co-chair). *International Symposium for Society and Resource Management*, Estes Park, CO. June 4-8, 2013.
- 1. Understanding Socio-Ecological Systems with Agent-Based Models: Examples from Wildland-Urban Interface Research in North America (organizer and chair). *International Symposium for Society and Resource Management*, Madison, WI. June 4-8, 2011.

Teaching and Mentorship

Courses at University of Michigan

- 4. EAS 677: Wildfire in the West as a Social-Ecological System. This graduate-level seminar introduces students to Social-Ecological System (SES) theory and current policy and management approaches that treat forests and wildfire as an SES. Through analysis of research papers, news articles, documentaries, and reports, and discussions with faculty, postdoctoral researchers, and guest speakers working in the fields of forest management, fire protection, community development, and climate change mitigation and adaptation, we build our collective understanding of wildfire as an SES and how to manage it as such. This course helps prepare students for applied research and practice in the context of complex environmental programs and wildfire specifically.
- 3. EAS 567: Social Vulnerability and Adaptation to Environmental Change. This threecredit graduate-level course introduces students to the concepts of social vulnerability and adaptation as well as frameworks for assessing vulnerability and adaptation at individual, community, and institutional levels. Students learn about methods and skills for analyzing human exposure, sensitivity, and adaptive capacity, evaluating vulnerability assessments, and developing adaptation plans. The focus is on climate change and related natural hazards of concern to coastal and inland areas of the U.S., including wildfires, droughts, flooding, sea level rise, and storms.

- 2. EAS 569: Stakeholder Network Analysis. This 1.5-credit graduate-level course introduces students to network approaches to investigating opportunities and constraints for natural resource planning and management. It provides students with an overview of social network theories and methods as well as hands-on experience applying social network analysis to answer natural resource management questions.
- 1. EAS 559: Interviewing and Qualitative Data Analysis. This 3.0-credit graduate-level course trains students in individual and focus group interviewing as research strategies and practical tools for gathering information. It also introduces students to methods for analyzing qualitative data to ensure rigor, usefulness, and communicability of results. The course will consist of lectures, role plays, and peer feedback on interview project components, including research designs, interview guides, codebooks, analytical memos, and network and matrix displays of key findings.

Courses at Other Universities

- 4. The Global Wildfire Problem as a Social-Ecological-Technical System. In this international graduate-level seminar, students will investigate the global wildfire problem through the lens of social-ecological-technical systems (SETS) theory. Through analysis of research papers, news articles, documentaries, and reports, and discussions with faculty, postdoctoral researchers, and guest speakers working in the fields of forest management, fire protection, community development, and climate change mitigation and adaptation, we will build our collective understanding of wildfire as a SETS and how to manage it as such. This course will help prepare students for applied research and practice in the context of complex environmental programs and in geographic regions affected by wildfire specifically. Universidad Austral de Chile., 2023.
- 3. FS/GEO 599: Society, Natural Hazards and Environmental Change. This graduate-level course introduced students to the concepts of social vulnerability and adaptation to climate change and natural hazards in rural communities in the U.S. Oregon State University.
- 2. PS 502: Future Scenarios of Landscape Change: Methods and Theory. This graduatelevel course introduced students to the theory and methods of scenario planning. The course also engaged students in the design and implementation of a set of scenario planning workshops for the fire-prone socio-ecological systems of Central and South Central Oregon (co-instructor). Oregon State University.
- 1. FOR507/607: Coupled Natural Human Systems Methods: Agent-based modeling and Social Networks. This graduate-level course examined the challenges of modeling coupled human and natural systems, with a focus on using agent-based models and social network analysis, in conjunction with an organized seminar series as part of the course that brought experts on agent-based modeling and coupled natural human systems research from around the U.S. and Canada (co-instructor). Oregon State University.

Advisees

• Post-doctoral fellows

Matthew Hamilton (2016-2018), now Assistant Professor, School of Environment and Natural Resources, Ohio State University

Aniseh Sonja Bro (2018-2019), now Assistant Profesor, Goodnight Family Sustainable Development Department at Appalachian State University

Garry Sotnik (2019-2021), now Instructior, Stanford University, Stanford Doerr School of Sustainability

Riva Denny (2019-2023), now Senior Study Director/Research Data Manager, Westat, Frederick, Maryland.

Federico Holm (2021-2022), now Clean Energy Policy Analyst, Center for Progressive Reform, Washington, DC, USA

Francisca Santana (2022-2023), now Assistant Professor, School of Environmental and Forest Sciences, University of Washington

Mahmood Muttaqee (2023-present)

Hector Figuera (2023-present)

• Ph.D. students (as primary advisor)

Michal Russo (exp. 2023)

Caroline Beckman (exp. 2028)

• *MS thesis students(as primary advisor)* Matthew Sehrsweeny (2020)

Matt Aurmier (2021)

• *Master's projects (as primary advisor)* "Coastal Community Resilience to External Stressors" Ricky Ackerman Mike Burbidge Theo Eggermont Joanna Lehrman Rachel Neuenfeldt Nathan Wells Xi Chen

"Just Wildfire Workforce"

Professional Service and Memberships

National and International Service

- Climate Action Committee, Hampshire College, 2023-present.
- Associate Editor, Ecology and Society, 2021-present.
- Associate Editor, Frontiers in Climate, Climate Risk Management, 2019-present

- Contributing Author, Chapter 16, UN Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report, Working Group II (Impacts, Adaptation and Vulnerability), 2020-2022
- Board Chair, Human Dimensions of Global Change Specialty Group, American Association of Geographers, 2020-2022.
- USDA-USDI Joint Fire Science Program review panel, 2021-22
- Board Member, Human Dimensions of Global Change Specialty Group, American Association of Geographers, 2017-2019.
- Executive Council and Chair of Professional Development Committee, International Association of Society and Natural Resources, 2016-2019.
- International Association of Wildland Fire Human Dimensions Working group, Planning Committee member, 2018.
- USDA Forest Service Region 6. Assessment of Socio-Economic Vulnerability to Climate-Related Changes in Forests and Grasslands in the U.S. Northwest. Unfunded consultant, 2014-2016.
- USDA Forest Service National Leadership Council. Unfunded consultation to Assistant Chief of the Forest Service and the National Leadership Council in the use of social network research for evaluating organizational learning and improving natural resource governance. 2016.
- Scientific review committee, International Association for Society and Natural Resources, International Symposium on Society and Resource Management, 2015.
- Associate Editor, Journal of Forestry, 2013-2015.
- Associate Editor, Journal of Small-scale Forestry, 2013-2015.
- Social Science Advisor, H.J. Andrews Experimental Forest Long-Term Ecological Research Program, 2013-2014.
- Scientific review committee, International Association for Society and Natural Resources, Student paper competition, International Symposium on Society and Resource Management, Estes Park, CO, 2013.
- Scientific review committee, International Union of Forest Research Organizations, Small Scale Forestry Working Group, 2012.
- Working group member. Social and Community Vulnerability and Adaptive Capacity to Climate Change, University of Montana and the USDA Forest Service Rocky Mountain Research Station, 2012 to present.

Journal article reviewer

- Annals of the American Association of Geographers
- Disasters
- Environmental Economics
- Environmental Modeling and Software
- Ecology and Society

- Environmental Sociology
- Frontiers in Ecology and the Environment
- Global Environmental Change
- Journal of Forestry
- Journal of Small-scale Forestry
- Landscape and Urban Planning
- Nature Ecology and Evolution
- PLoS ONE
- Regional Environmental Change
- Risk Analysis
- Society and Natural Resources
- Sustainability Science
- Wires Climate Change

Proposal reviewer

- National Academy of Sciences Partnerships for Enhanced Engagement in Research (PEER) funding program
- European Union Environmental Research Council's Starting, Consolidator, Advanced and Synergy Grant Program (EU ERC COG)
- National Science Foundation Geography and Spatial Sciences (GSS) program
- National Science Foundation Decision Risk Management Sciences (DRMS) program
- National Science Foundation Human-Environment and Geographical Sciences (HEGS) Program
- USDA/USDI Joint Fire Sciences Program (JFSP)

Professional Affiliations

- International Association for Society and Natural Resources
- Association of American Geographers
- Fulbright Association