

CURRICULUM VITAE

ZHAO MA

Purdue University, College of Agriculture, Department of Forestry and Natural Resources
195 Marsteller Street, West Lafayette, IN 47907

Phone: 765-494-1790; Email: zhaoma@purdue.edu

EDUCATION

Ph.D., Natural Resources Science and Management, minor in Statistics (2008)

Department of Forest Resources, College of Food, Agricultural and Natural Resource Sciences,
University of Minnesota, St. Paul, MN

Dissertation title: The integration of cumulative environmental impact assessments and state
environmental review frameworks

Advisors: Drs. Michael A. Kilgore and Dennis R. Becker

Master of Arts, Sustainable International Development (2004)

Programs in Sustainable International Development, Heller School for Social Policy and
Management, Brandeis University, Waltham, MA

Thesis title: Modeling local governance, local economic development, and social welfare at the
municipal level in Bolivia

Advisor: Dr. Ricardo Godoy

Bachelor of Engineering, Material Physics (2002)

Department of Materials Physics, School of Materials Science and Engineering, University of
Science and Technology Beijing, China

ACADEMIC APPOINTMENTS

Professor of Natural Resource Social Science, Department of Forestry and Natural Resources,
Purdue University, West Lafayette, IN. (08/2020-present)

Associate Professor of Natural Resource Social Science, Department of Forestry and Natural
Resources, Purdue University, West Lafayette, IN. (08/2016-07/2020)

Assistant Professor of Natural Resource Social Science, Department of Forestry and Natural
Resources, Purdue University, West Lafayette, IN. (08/2013-07/2016)

Assistant Professor of Natural Resource and Environmental Policy, Department of Environment and
Society, Utah State University, Logan, UT. (08/2009-07/2013)

Post-doctoral Research Associate, Department of Natural Resources Conservation, University of
Massachusetts Amherst, Amherst, MA. (03/2008-06/2009)

Research Assistant, Department of Forest Resources, University of Minnesota, St. Paul, MN.
(09/2005-02/2008)

Database Researcher, The Nature Conservancy, Lima, Peru. (02/2004-04/2004)

Research Intern, Public Policy Unit, United Nations Development Programme, La Paz, Bolivia.
(07/2003-02/2004)

Research Assistant, Program in Sustainable International Development, Brandeis University,
Waltham, MA. (01/2003-08/2003)

Research Assistant, Environmental Change and Security Program, Woodrow Wilson International
Center for Scholars, Washington, DC. (02/2003-06/2003)

RESEARCH

Peer-reviewed Journal Articles (* indicates the corresponding author, + indicates mentored graduate students, ++ indicates mentored post-doctoral scholars)

1. Popovici, R.^{++*}, Moraes, A., **Ma, Z.**, Zanotti, L., Cherkauer, K., Erwin, A.⁺⁺, Mazer, K., Bocardo-Delgado, E., Pinto Cáceres, J., Ranjan, P., & Prokopy, L.S. (2021). How do Indigenous and local knowledge systems respond to climate change? *Ecology and Society*. Accepted.
2. Clarke, M.^{+*}, **Ma, Z.**, Snyder, S.A., & Floress, K. (2021). Factors influencing family forest owners' interest in community-led collective invasive plant management. *Environmental Management*, 67, 1088-1099. <https://doi.org/10.1007/s00267-021-01454-1>
3. Clarke, M.^{+*}, **Ma, Z.**, Snyder, S.A., & Hennes, E.P. (2021). Using protection motivation theory to understand invasive plant management on family forestlands. *Journal of Environmental Management*, 286, 112161. <https://doi.org/10.1016/j.jenvman.2021.112161>
4. Erwin, A.^{++*}, **Ma, Z.**, Popovici, R.⁺⁺, Salas O'Brien, E.P., Zanotti, L., Zeballos Zeballos, E., Bauchet, J., Ramirez Calderón, N., & Arce Larrea, G.R. (2021). Intersectionality shapes adaptation to social-ecological change. *World Development*, 138, 105282. <https://doi.org/10.1016/j.worlddev.2020.105282>
5. Wang, Z.^{+*}, Nixon, R.⁺, Erwin, A.⁺⁺, & **Ma, Z.** (2020). Assessing the impacts of large-scale water transfer projects on communities: Lessons learned from a systematic literature review. *Society and Natural Resources*. <https://doi.org/10.1080/08941920.2020.1859029>
6. Mazer, K.E.^{*}, Erwin, A.⁺⁺, Popovici, R.⁺⁺, Bocardo-Delgado, E., Bowling, L.C., **Ma, Z.**, Prokopy, L.S., & Zeballos-Velarde, C. (2020). Creating a collaboration framework to evaluate international university-led water research partnerships. *Journal of Contemporary Water Research & Education*, 171, 9-26. <https://doi.org/10.1111/j.1936-704X.2020.3342.x>
7. Popovici, R.^{++*}, Mazer, K.E., Erwin, A.⁺⁺, **Ma, Z.**, Pinto Cáceres, J.P., Bowling, L.C., Bocardo-Delgado, E.F., & Prokopy, L.S. (2020). Coproduction challenges in the context of changing rural livelihoods. *Journal of Contemporary Water Research & Education*, 171, 111-126. <https://doi.org/10.1111/j.1936-704X.2020.3348.x>
8. Aubry, L.M.^{*}, Laverty, T.M., & **Ma, Z.** (2020). Impacts of COVID-19 on ecology and evolutionary biology faculty in the United States. *Ecological Applications*. <https://doi.org/10.1002/eap.2265>
9. Popovici, R.⁺⁺, Erwin, A.⁺⁺, **Ma, Z.**^{*}, Prokopy, L.S., Zanotti, L., Bocardo Delgado, E.F., Pinto Cáceres, J.P., Zeballos Zeballos, E., Salas O'Brien, E.P., Bowling, L.C., & Arce Larrea, G.R. (2020). Outsourcing Governance in Peru's Integrated Watershed Management. *Land Use Policy*, 105105. <https://doi.org/10.1016/j.landusepol.2020.105105>.
10. Iles, K.⁺, **Ma, Z.**^{*}, & Nixon, R.⁺ (2020). Multi-dimensional motivations and experiences of small-scale farmers. *Society and Natural Resources*. <https://doi.org/10.1080/08941920.2020.1823540>.
11. Bauchet, J., Asquith, N., **Ma, Z.**^{*}, Radel, C., Godoy, R., Zanotti, L., Steele, D.⁺⁺, Gramig, B., & Estrella Chong, A. (2020). The practice of Payments for Ecosystem Services (PES) in the Tropical Andes: Evidence from program administrators. *Ecosystem Services*, 45, 101175. <https://doi.org/10.1016/j.ecoser.2020.101175>.
12. Iles, K.⁺, **Ma, Z.**^{*}, & Erwin, A.⁺⁺ (2020). Identifying the common ground: Small-scale farmer identity and community. *Journal of Rural Studies*, 78, 25-35. <https://doi.org/10.1016/j.jrurstud.2020.06.018>
13. Zanotti, L.^{*}, **Ma, Z.**, Johnson, J., Johnson, D., Yu, D.J., Burnham, M., & Carothers, C. (2020). Sustainability, resilience, adaptation, and transformation: Tensions and plural approaches.

- Ecology and Society*, 25(3), 4. <https://doi.org/10.5751/ES-11642-250304>.
14. Snyder, S.*, **Ma, Z.**, Floress, K., & Clarke, M.+ (2020). Relationships between absenteeism, conservation group membership, and land management among family forest owners. *Land Use Policy*, 91, 104407. <https://doi.org/10.1016/j.landusepol.2019.104407>.
 15. Swihart, R.K.*, Caudell, J.N., Brooke, J.M., & **Ma, Z.** (2020). A flexible model-based approach to delineate wildlife management units. *Wildlife Society Bulletin*, 44(1), 77-85. <https://doi.org/10.1002/wsb.1037>
 16. **Ma, Z.***, Steele, D.++, Cutler, A., & Newcomb, K. (2020). Promoting sustainability in public natural resource agencies: Insights from the USDA Forest Service. *Journal of Forestry*, 118(2), 105-123. <https://doi.org/10.1093/jofore/fvz067>
 17. Running, K.*, Burnham, M., Wardropper, C., **Ma, Z.**, Hawes, J.+ , & du Bray, M.++ (2019). Farmer adaptation to reduced groundwater availability. *Environmental Research Letters*, 14(11), 115010. <https://doi.org/10.1088/1748-9326/ab4ccc>
 18. Huff, E.S.*, Floress, K., Snyder, S.A., **Ma, Z.**, & Butler, S. (2019). Where farm and forest meet: Comparing National Woodland Owner Survey respondents with and without farmland. *Land Use Policy*, 87, 104007. <https://doi.org/10.1016/j.landusepol.2019.05.026>
 19. Bagavathiannan, M.*, Graham, S.*, **Ma, Z.**, Barney, J.N., Coutts, S., Caicedo, A.L., De Clerck-Floate, R., West, N., Blank, L., Metcalf, A., Lacoste, M., Evans, J.A., Moreno, C., Evans, J., Burke, I., & Beckie, H. (2019). Considering weed management as a social dilemma bridges individual and collective interests. *Nature Plants*, 5, 343-351. <https://doi.org/10.1038/s41477-019-0395-y>
 20. Graham, S.*, Metcalf, A., Lubeck, A., Gill, N., Ikutegbe, V., Niemiec, R.+ , Moreno, C., Bach, T., Hallstrom, L., & **Ma, Z.** (2019). Opportunities for better use of collective action theory in research and governance for invasive species management. *Conservation Biology*, 33(2), 275-287. <https://doi.org/10.1111/cobi.13266>
 21. Clarke, M.+ , **Ma, Z.***, Snyder, S., & Floress, K. (2019). What are family forest owners thinking and doing about invasive plants? *Landscape and Urban Planning*, 188, 80-92. <https://doi.org/10.1016/j.landurbplan.2018.10.024>
 22. **Ma, Z.***, Clarke, M.+ , & Church, S.++ (2018). Insights into individual and cooperative invasive plant management on family forestlands. *Land Use Policy*, 75, 682-693. <https://doi.org/10.1016/j.landusepol.2018.02.010>
 23. Rohal, C.+* , Kettenring, K.M., Sims, K., Hazelton, E., & **Ma, Z.** (2018). Surveying managers to inform a regionally relevant invasive *Phragmites australis* research program. *Journal of Environmental Management*, 206, 807-816. <https://doi.org/10.1016/j.jenvman.2017.10.049>
 24. Burnham, M., & **Ma, Z.*** (2018). Multi-scalar pathways to smallholder adaptation. *World Development*, 108, 249-262. <https://doi.org/10.1016/j.worlddev.2017.08.005>
 25. **Ma, Z.***, Bauchet, J., Steele, D.++, Godoy, R., Radel, C., & Zanotti, L. (2017). Comparison of direct transfers for human capital development and environmental conservation. *World Development*, 99, 498-517. <https://doi.org/10.1016/j.worlddev.2017.05.030>
 26. Burnham, M.+* , & **Ma, Z.** (2017). Climate change adaptation: Factors influencing Chinese smallholder farmers' perceived self-efficacy and adaptation intent. *Regional Environmental Change*, 17(1), 171-186. <https://doi.org/10.1007/s10113-016-0975-6>
 27. Farmer, J.R.* , **Ma, Z.**, Drescher, M., Knackmuhs, E.G.+ , & Dickinson, S.L. (2017). Private landowners, voluntary conservation programs, and implementation of conservation friendly land management practices. *Conservation Letters*, 10(1), 58-66. <https://doi.org/10.1111/conl.12241>
 28. Burnham, M.+ , **Ma, Z.***, Endter-Wada, J., & Bardsley, T. (2016). Water management decision

- making in the face of multiple forms of uncertainty and risk. *Journal of the American Water Resources Association*, 52(6), 1366-1384. <https://doi.org/10.1111/1752-1688.12459>
29. Gitau, M.W.*, Chen, J.⁺, & **Ma, Z.** (2016). Water quality indices as tools for decision making and management. *Water Resources Management*, 30(8), 2591-2610. <https://doi.org/10.1007/s11269-016-1311-0>
 30. Ulrich-Schad, J.D.^{++*}, Babin, N.⁺⁺, **Ma, Z.**, & Prokopy, L.S. (2016). Out-of-state, out of mind? Absentee farmland owners and conservation decision making. *Land Use Policy*, 54, 602-613. <https://doi.org/10.1016/j.landusepol.2016.02.031>
 31. Laatsch, J.⁺, & **Ma, Z.*** (2016). Climate change communication within public natural resource agencies: Lessons learned from the U.S. Forest Service. *Society and Natural Resources*, 29(10), 1169-1185. <https://doi.org/10.1080/08941920.2015.1107790>
 32. Burnham, M.^{++*}, **Ma, Z.**, & Zhang, B.⁺. (2016). Making sense of climate change: Hybrid epistemologies, socio-natural assemblages, and smallholder knowledge. *Area*, 48(1), 18-26. <https://doi.org/10.1111/area.12150>
 33. Burnham, M.⁺, & **Ma, Z.*** (2016). Linking smallholder farmer climate change adaptation decisions to development. *Climate and Development*, 8(4), 289-311. <https://doi.org/10.1080/17565529.2015.1067180>
 34. Young, J., **Ma, Z.***, Laudati, A., & Berger, J. (2015). Human-carnivore interactions: Lessons learned from communities in the American West. *Human Dimensions of Wildlife*, 20(4), 349-366. <https://doi.org/10.1080/10871209.2015.1016388>
 35. Laatsch, J.⁺, & **Ma, Z.*** (2015). Strategies for incorporating climate change into public forest management. *Journal of Forestry*, 113(3), 335-342. <https://doi.org/10.5849/jof.14-128>
 36. Burnham, M.⁺, **Ma, Z.***, & Zhu, D. (2015). The human dimensions of water saving irrigation: Lessons learned from Chinese smallholder farmers. *Agriculture and Human Values*, 32, 347-360. <https://doi.org/10.1007/s10460-014-9565-8>
 37. Burnham, M.⁺, Radel, C.*, **Ma, Z.**, & Laudati, A. (2014). Teaching and learning guide for: Extending a geographic lens towards climate justice. *Geography Compass*, 8(4), 277-285. <https://doi.org/10.1111/gec3.12126>
 38. Cook, S.⁺, & **Ma, Z.*** (2014). The interconnectedness between landowner knowledge, value, belief, attitude, and willingness to act: Policy implications for carbon sequestration on private rangelands. *Journal of Environmental Management*, 134, 90-99. <https://doi.org/10.1016/j.jenvman.2013.12.033>
 39. Greene, J.L.*, Butler, B.J., Catanzaro, P.F., Hewes, J.H., Kilgore, M.A., Kittredge, D.B., **Ma, Z.**, & Tyrrell, M.L. (2014). Family forest owners and federal taxes. *Forest Policy and Economics*, 38, 219-226. <https://doi.org/10.1016/j.forpol.2013.10.001> (After the first author, the remainder authorship was alphabetically ordered)
 40. Cook, S.⁺, & **Ma, Z.*** (2014). Carbon sequestration and private rangelands: Insights from Utah landowners and implications for policy development. *Land Use Policy*, 36, 522-532. <https://doi.org/10.1016/j.landusepol.2013.09.021>
 41. **Ma, Z.***, Butler, B.J., Catanzaro, P.F., Greene, J.L., Hewes, J.H., Kilgore, M.A., Kittredge, D.B., & Tyrrell, M. (2014). The effectiveness of state preferential property tax programs in conserving forests: Comparisons, measurements, and challenges. *Land Use Policy*, 36, 492-499. <https://doi.org/10.1016/j.landusepol.2013.09.016>
 42. Burnham, M.⁺, Radel, C.*, **Ma, Z.**, & Laudati, A. (2013). Extending a geographic lens towards climate justice, part 1: Climate change characterization and impacts. *Geography Compass*, 7(3), 239-248. <https://doi.org/10.1111/gec3.12034>

43. Burnham, M.⁺, Radel, C.*, **Ma, Z.**, & Laudati, A. (2013). Extending a geographic lens towards climate justice, part 2: Climate action. *Geography Compass*, 7(3), 228-238. <https://doi.org/10.1111/gec3.12033>
44. Petrzelka, P.*, **Ma, Z.**, & Malin, S.⁺ (2013). The elephant in the room: Absentee landowner issues in conservation and land management. *Land Use Policy*, 30(1), 157-166. <https://doi.org/10.1016/j.landusepol.2012.03.015>
45. **Ma, Z.***, & Coppock, D.L. (2012). Perceptions of Utah ranchers towards carbon sequestration: Policy implications for US rangelands. *Journal of Environmental Management*, 111, 78-86. <https://doi.org/10.1016/j.jenvman.2012.06.016>
46. Butler, B.J.*, Catanzaro, P.F., Greene, J.L., Hewes, J.H., Kilgore, M.A., Kittredge, D.B., **Ma, Z.**, & Tyrrell, M.L. (2012). Taxing family forest owners: Implications of federal and state policies in the United States. *Journal of Forestry*, 110(7), 371-380. <https://doi.org/10.5849/jof.11-097>
47. **Ma, Z.***, Becker, D.R., & Kilgore, M.A. (2012). Barriers to and opportunities for effective cumulative impact assessment within state-level environmental review frameworks in the United States. *Journal of Environmental Planning and Management*, 55(7), 961-978. <https://doi.org/10.1080/09640568.2011.635013>
48. **Ma, Z.***, Butler, B.J., Kittredge, D.B., & Catanzaro, P. (2012). Factors associated with landowner involvement in forest conservation programs in the U.S.: Implications for policy design and outreach. *Land Use Policy*, 29(1), 53-61. <https://doi.org/10.1016/j.landusepol.2011.05.004>
49. **Ma, Z.***, Kittredge, D.B., & Catanzaro, P. (2012). Challenging the traditional forestry extension model: Insights from the Woods Forum program in Massachusetts. *Small-scale Forestry*, 11(1), 87-100. <https://doi.org/10.1007/s11842-011-9170-2>
50. **Ma, Z.***, & Kittredge, D.B. (2011). How family forest owners consider timber harvesting, land sale, and conservation easement decisions: Insights from Massachusetts, USA. *International Journal of Forestry Research*, Volume 2011, Article ID 290353. <https://doi.org/10.1155/2011/290353>
51. Butler, B.J.*, & **Ma, Z.** (2011). Family forest owner trends in the northern United States. *Northern Journal of Applied Forestry*, 28(1), 13-18. <https://doi.org/10.1093/njaf/28.1.13>
52. Butler, B.J.*, **Ma, Z.**, Kittredge, D.B., & Catanzaro, P. (2010). Social versus biophysical availability of wood in the northern United States. *Northern Journal of Applied Forestry*, 27(4), 151-159. <https://doi.org/10.1093/njaf/27.4.151>
53. **Ma, Z.***, Becker, D.R., & Kilgore, M.A. (2009). Assessing cumulative impacts within state environmental review frameworks in the United States. *Environmental Impact Assessment Review*, 29(6), 390-398. <https://doi.org/10.1016/j.eiar.2009.03.004>
54. **Ma, Z.***, Becker, D.R., & Kilgore, M.A. (2009). Characterising the landscape of state environmental review policies and procedures in the United States: A national assessment. *Journal of Environmental Planning and Management*, 52(8), 1035-1051. <https://doi.org/10.1080/09640560903327591>
55. Godoy, R.*, Reyes-Garcia, V., Huanca, T., Leonard, W.R., Olvera, R.G., Bauchet, J., **Ma, Z.**, St. John, J., Miodosky, M., Rios, O.Z., Vadez, V., & Seyfreid, C. (2007). The role of community and individuals in the formation of social capital. *Human Ecology*, 35(6), 709-721. <https://doi.org/10.1007/s10745-006-9106-1>

Peer-reviewed Book Chapters (* indicates the corresponding author, + indicates mentored graduate students, ++ indicates mentored post-doctoral scholars)

1. Schelhas, J.*, Alexander, J., Brunson, M., Cabe, T., Crall, A., Dockry, M., Emery, M., Frankel, S.J., Hapner, N., Hickman, C.R., Jordan, R., LaVoie, M.J., **Ma, Z.**, Meentemeyer, R., Starinchak, J., & Vukomanovic, J. (2021). Social and cultural dynamics of non-native invasive species. In T.M. Poland, T. Patel-Weynand, D. Finch, C.F. Miniati, D.C. Hayes, & V.M. Lopez (Eds.), *Invasive Species in Forests and Grasslands of the United States: A Comprehensive Science Synthesis for the United States Forest Sector*. Heidelberg, Germany: Springer International Publishing. <https://doi.org/10.1007/978-3-030-45367-1>.
2. Johnson, J. L., Zanolini, L., **Ma, Z.***, Yu, D.J., Johnson, D.R., Kirkham, A., & Carothers, C. (2018). Interplays of sustainability, resilience, adaptation and transformation. In W. Leal Filho, R. Marans, & J. Callewaert (Eds.), *Handbook of Sustainability and Social Science Research*. Springer. https://doi.org/10.1007/978-3-319-67122-2_1

Invited and Peer-reviewed Editorials (* indicates the corresponding author, + indicates mentored graduate students, ++ indicates mentored post-doctoral scholars)

1. Dietsch, A.M.*, Wallen, K.E., Clayton, S., Kretser, H.E., Kyle, G.T., **Ma, Z.**, & Vercammen, A. (2020). New directions in conservation psychology at a critical time. *Conservation Biology*, 34(6), 1335-1338. <https://doi.org/10.1111/cobi.13629>
2. Burnham, M., Rasmussen, L.V., & **Ma, Z.*** (2018). Climate change adaptation pathways: Synergies, contradictions and tradeoffs across scales. Invited Editorial for Special Section: Climate change adaptations: Synergies, contradictions, and tradeoffs across scales. *World Development*, 108, 231-234. <https://doi.org/10.1016/j.worlddev.2018.04.014>

Book Review (* indicates the corresponding author, + indicates mentored graduate students, ++ indicates mentored post-doctoral scholars)

1. Hawes, J.K.*+, Erwin, A.++, McWherter, B.+ , Nixon, R.+ , Popovici, R.++, Rathjen, M.+ , & **Ma, Z.** (2019). A review of Grassroots Global Governance. *Society and Natural Resources*, 32(11), 1330-1332. <https://doi.org/10.1080/08941920.2019.1602239>

Manuscripts in Review (* indicates the corresponding author, + indicates mentored graduate students, ++ indicates mentored post-doctoral scholars)

1. Barak, B.++, Brudvig, L.A., Havens, K., **Ma, Z.** Factors influencing seed mix design for prairie restoration. *Restoration Ecology*. Revise and resubmit.
2. McWherter, B.+ , Bauchet, J.* , **Ma, Z.**, Grillos, T., Asquith, N., Rathjen, M.+ , & Markos, A. Compliance under control: Insights from an incentive-based conservation program in rural Bolivia. *Ecological Economics*. In review.
3. Brennan, A.*+, **Ma, Z.**, & Jacobs, D. Perceptions of land managers towards using hybrid and genetically modified trees. *New Forests*. Revise and resubmit.
4. Popovici, R.++, **Ma, Z.**, Erwin, A.++, Prokopy, L.S., Zeballos Velarde, C.R., Bocardo Delgado, E.F., & Pinto Cáceres, J.P. Maladaptive learning in Peru's integrated water resources management. *Environmental Science and Policy*. Revised and resubmitted.
5. Stinchcomb, T.R.*+, **Ma, Z.**, & Nyssa, Z. Complex human-deer interactions challenge conventional management approaches. *Ecology and Society*. Revise and resubmit.
6. Fairchild, E., Schad, J.D.* , Petrzalka, P., & **Ma, Z.** The lay of the land: What we know about non-operating agricultural and absentee forest landowners in the U.S. and Europe. *Land Use Policy*. In review.
7. Erwin, A., **Ma, Z.**, Salas-O'Brien, E.P., Bauchet, J., Ramirez Calderón, N., Zeballos Zeballos,

- E., Arce Larrea, G., Popovici, R., Zanotti, L., & Silva, C.A. Centering community voices in mining governance in Peru. *Society and Natural Resources*. In review.
8. Obringer, R., Nateghi, R., **Ma, Z.**, & Kumar, R. A socio-environmental systems approach for modeling intra-city water consumption. *Journal of Water Resources Planning and Management*. In review.
 9. Nixon, R., **Ma, Z.**, Khan, B., Birkenholtz, T., Lee, L., & Ahmed, M.I. Values and social influence in adaptive water governance: Empirical evidence from northwestern Pakistan. *Ecology and Society*. Revise and resubmit.
 10. Francomano, D.⁺, Rodríguez González, M.L.⁺, Valenzuela, A.E.J., **Ma, Z.**, Raya Rey, A.N., Anderson, C.B., & Pijanowski, B.C. Human-nature connection and soundscape perception: Insights from Tierra del Fuego, Argentina. *Journal for Nature Conservation*. Revised and resubmitted.
 11. Iles, K.⁺, Nixon, R.⁺, **Ma, Z.**, Gibson, K., & Benjamin, T. Support for new and beginning farmers: Insights from an assessment of their characteristics, motivations, practices, needs, and challenges. *Journal of Rural Studies*. In review.
 12. Erwin, A.⁺⁺, **Ma, Z.**, Popovici, R.⁺⁺, Salas O'Brien, E.P., Zanotti, L., Silva, C., Zeballos Zeballos, E., Bauchet, J., Ramirez Calderón, N., & Arce Larrea, G.R. Integrating migration into community resilience: Insights from the Majes-Siguas Receiving Basin. *Land Use Policy*. In review.
 13. Nixon, R.⁺, **Ma, Z.**, Zanotti, Z., Khan, B., Birkenholtz, T., Lee, L.S., & Ahmed, M.I. Value tradeoffs in household adaptation to social-ecological change in northwestern Pakistan. *Agriculture and Human Values*. Revised and resubmitted.
 14. Vargas, M., Garcia, M., Vidaurre, T., Carrasco, A., Araujo, N., Medema, C., Asquith, N.^{*}, Pynegar, E., Tobon, C., Manco, Y., **Ma, Z.**, Bauchet, J., Grillos, T., & McWherter, B.⁺. The researcher-practitioner symbiosis: Evolving mutualisms from parachutes. *Conservation Science and Practice*. In review.
 15. Hawes, J.K.⁺, Burnham, M., du Bray, M.V., Hillis, V., **Ma, Z.**, Running, K. Social vulnerability to irrigation water loss in the Eastern Snake Plain of Idaho: Assessing water policy change effects for farmers. *Environmental Management*. In review.

Extension Factsheets, Technical Reports and Other Publications (+ indicates mentored graduate students)

1. Haase, D.L., Pike, C., Enebak, S., Mackey, L., **Ma, Z.**, & Silva, C. (2020). Forest Nursery Seedling Production in the United States—Fiscal Year 2019. *Tree Planters' Note*, 63(2), 26-31. Available at: <https://rngr.net/publications/tpn/>
2. Haase, D.L., Pike, C., Enebak, S., Mackey, L., **Ma, Z.**, & Rathjen, M.⁺ (2019). Forest Nursery Seedling Production in the United States—Fiscal Year 2018. *Tree Planters' Note*, 62(1, 2), 20-24. Available at: <https://rngr.net/publications/tpn/>
3. Hernández, G., Haase, D.L., Pike, C., Enebak, S., Mackey, L., **Ma, Z.**, & Clarke, M.⁺ (2018). Forest Nursery Seedling Production in the United States—Fiscal Year 2017. *Tree Planters' Note*, 61(2), 18-22. Available at: <https://rngr.net/publications/tpn/>
4. Hernández, G., Haase, D.L., Pike, C., Enebak, S., Mackey, L., **Ma, Z.**, & Clarke, M.⁺ (2017). Forest Nursery Seedling Production in the United States—Fiscal Year 2016. *Tree Planters' Note*, 60(2), 24-28. Available at: <https://rngr.net/publications/tpn/>
5. Clarke, M.⁺, **Ma, Z.**, Snyder, S., & Floress, K. (2017). Private woodland owners and invasive plant management in Illinois. *The Voice for Illinois Forests*, 12(2), Summer 2017.

<https://www.ilforestry.org/resources/Documents/Newsletters/IFA%20Summer%202017%20Newsletter%20Final%20E-version.pdf>

6. Clarke, M.⁺, & **Ma, Z.** (2017). What do our private woodland owners know and are doing about invasive plants in Indiana? *Indiana Woodland Steward*, 26(1), Spring 2017. <http://www.inwoodlands.org/what-do-our-private-invasive/>
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9. Cook, S.⁺, **Ma, Z.**, & Brain, R. (2013). Rangeland Carbon Sequestration. Utah State University Cooperative Extension. Sustainability/2013/13pr. http://extension.usu.edu/files/publications/publication/sustainability_2013_13pr.pdf
10. Curtis, K., **Ma, Z.**, MacAdam, J., & Chakreeyarat, V.⁺ (2012). Rancher Adoption Potential of the Birdsfoot Trefoil Pasture Beef Production System in the Intermountain West. Utah State University Cooperative Extension. AG/Agribusiness/2012-04pr. https://digitalcommons.usu.edu/extension_curall/1372/
11. Butler, B.J., Hewes, J.H., Catanzaro, P., Greene, J.L., Kilgore, M.A., Kittredge, D.B., Langer, J., **Ma, Z.**, Reuben, A., & Tyrrell, M. (2010). Effects of Federal, State, and Local Tax Policies on Family Forest Owners: Technical Report. USDA Forest Service/University of Massachusetts Amherst, Family Forest Research Center, Amherst, MA. FFRC Research Paper No. 2010-01.
12. Godoy, R., Bauchet, J., & **Ma, Z.** (2003). Comparison of socio-economic indicators between Puerto Rico and the United States mainland: Analysis of the Census 2000. Working Paper No.10. Waltham, MA: Center for International Development, Heller School for Social Policy and Management, Brandeis University.

Grants, Fellowships, and Scholarships

Current external

1. Delta Stewardship Council Delta Science Program (2021-2024). PI. Integrating social and ecological research to control invasive species: Fostering collective action among private and public stakeholders (A collaborative grant with Suisun Resource Conservation District, Utah State University, Santa Clara University, Chapman University). \$209,881
2. Indiana Department of Natural Resources (2021-2023). *Co-investigator* (PI: Carson Reeling). An integrated economic assessment of outdoor activities related to white-tailed deer and furbearers in Indiana. \$496,970 (direct cost only; responsible for \$27,957)
3. USDA Forest Service, Northern Research Station (2020-2023). *PI*. Oak ecosystem restoration on private lands across Chicago and the Driftless Area. \$79,491
4. USDA Forest Service (2019-2021). *PI*. Private nursery seedling production in the eastern U.S. \$10,000
5. Universidad Nacional de San Agustín de Arequipa (UNSA) (2018-2021). *Co-PI* (PI: Laura Bowling). UNSA NEXUS: A framework for sustainable water management in the Arequipa region. \$1,966,656 (responsible for \$196,666)
6. Indiana Department of Natural Resources (2018-2022). *Co-PI* (PI: Rob Swihart). Integrated deer management in Indiana. \$1,269,380 (responsible for \$223,207)
7. National Science Foundation, Geography and Spatial Sciences Program (2017-2021). *PI*. Co-

producing environmental conservation and social equity: Is conditionality in Payments for Ecosystem Services a necessity or impediment? \$399,778

Current internal

1. Clifford B. Kinley Trust (2020-2022). *PI*. Investigating social-ecological risk and adaptation among agricultural migrants in Peru. \$20,000
2. Purdue University, College of Engineering, Smart Cities Program (2019-2021). *Co-PI* (PI: Sara McMillan). Socio-ecological resilience of urban ecosystems to extreme climate events. \$66,680 (responsible for \$10,880)

Past external

1. Universidad Nacional de San Agustín de Arequipa (UNSA) (2018-2021). *PI*. UNSA NEXUS: Equitable co-existence of agriculture, mining, and regional development in Arequipa: Realities, barriers, and opportunities. \$659,200
2. USDA National Institute of Food and Agriculture, Agriculture and Food Research Initiative (2018-2021). *Co-investigator* (PD: Elizabeth Flaherty). Diversity in faces, places, and spaces of natural resource sciences. \$262,064 (responsible for \$41,930)
3. The National Academies of Sciences, Engineering, and Medicine (2019-2020). *Co-PI* (PI: Linda Lee). Evidence to Action Supplement Award to “Endocrine-disrupting chemicals (EDCs) in Kabul and Swat Rivers and their impact on fish populations and rural community livelihoods.” \$80,771 (responsible for \$14,117)
4. The National Academies of Sciences, Engineering, and Medicine (2017-2020). *Co-PI* (PI: Linda Lee). Endocrine disrupting chemicals (EDCs) in Kabul and Swat Rivers and their impact on fish populations and rural community livelihoods. \$188,222 (responsible for \$56,467)
5. American Forests (2020). *PI*. Private and public seedling nursery survey in the northern region. \$2,810
6. USDA National Institute of Food and Agriculture, Agriculture and Food Research Initiative (2018-2019). *Co-investigator* (PD: M. Burnham). Measuring feedbacks between farmer adaptation to irrigation water restrictions, landuse change, and water availability in southeast Idaho. \$149,993 (responsible for \$3,000)
7. Illinois-Indiana Sea Grant College Program (2016-2018). *PI*. Combining societal acceptance and biophysical drivers of conservation practices to improve water quality in multi-use landscapes. \$198,776
8. USDA Forest Service, Northern Research Station (2015-2018). *PI*. Awareness, attitudes, and behaviors of family forest owners towards invasive forest plants: implications for prevention and control strategies in the Northern Forests. \$39,863
9. USDA National Institute of Food and Agriculture Beginning Farmer and Rancher Development Program (2015-2017). *Co-PD* (PD: Kevin Gibson). Infrastructure, access, and community: A plan to support beginning farmers in Indiana. \$681,405 (responsible for \$156,922)
10. USDA Forest Service, Sustainable Operations (2015-2017). *PI*. Factors motivating sustainable behaviors within the USDA Forest Service. \$27,000
11. Indiana Department of Natural Resources (2014-2016). *Co-PI* (PI: Patrick Zollner). Integrating ecological, landscape and social information for wildlife conservation and management in Indiana. \$74,884 (responsible for \$24,513)

12. USDA Congressional Earmark on China Research (2010-2012). *PI*. Smallholder farmer climate perception and adaptation in arid and semi-arid regions of China. \$56,400
13. USDA Forest Service, Northern Research Station (2009). *PI*. Family forest research. \$17,190
14. Northeastern States Research Cooperative (2008-2010). *Co-investigator* (PI: Jessica Leahy). Estimating willingness to accept recreation access policies, incentives, and compensation among private forest landowners in Maine's inland rim counties. \$44,570 (responsible for \$4,135)

Past internal

1. Purdue University, Clifford B. Kinley Trust (2017-2018). *PI*. Reconsidering conditionality in Payments for Ecosystem Services: Implications for human condition and social equity. \$19,862
2. Purdue University, Center for the Environment (2017-2018). *PI*. Integrating psychological insights to mitigate nonnative plant invasions. \$19,856
3. Purdue University, Center for the Environment (2016-2017). *Co-PI* (PI: Mike Jenkins). Making resilience functional in a rapidly changing world. \$19,507 (responsible for \$4,031)
4. Purdue University, Center for Global Food Security (2015). *Co-PI* (PI: Iyer-Pascuzzi). Deciphering the biology, economics, and viability of biochar-mediated disease resistance for smallholder tomato farmers in Colombia. \$70,000 (responsible for \$7,750)
5. Purdue University, Center for the Environment (2015). *PI*. Using cash transfers to promote ecosystem services and sustainable livelihoods: what is the role of conditionality? \$17,670
6. Purdue University, Department of Forestry and Natural Resources (2015). *Co-PI* (PI: Shadi Atallah). Mixed-methods in socio-ecological systems: Survey-based simulation models of human-wildlife interactions in a recreational park. \$14,980 (responsible for \$3,794)
7. Purdue University, College of Agriculture, AgSEED Program (2014-2015). *PI*. Facilitating informed decision making to prevent and control invasive plants: A study of family forest owners in Indiana. \$49,957.
8. Utah Agricultural Experiment Station (2012). *PI*. Linking perception and action: Building Utah agricultural communities' capacity to adapt to climate change. \$19,997
9. Utah State University, Seed Program to Advance Research Collaborations (2011). *Co-investigator* (PI: Jennifer MacAdam). Rapid beef finishing on Birdsfoot Trefoil pastures for sustainable mitigation of climate change. \$35,000 (responsible for \$12,870)
10. Utah State University, Research Catalyst program (2010). *PI*. Understanding landowner perception of climate uncertainty and assessing the viability of carbon sequestration policy in Utah. \$19,952
11. Utah Agricultural Experiment Station (2010). *PI*. Understanding Utah farmers' perceptions of carbon sequestration programs and their likelihood of participation. \$20,000

Invited Presentations and Lectures (* indicates the presenter, + indicates mentored graduate students, ++ indicates mentored post-doctoral scholars)

1. **Ma, Z.*** (2020). Invited discussant for the panel "IDEA CAFE: In search of fresh, tractable solutions to the wicked problem of destructive, non-native forest pathogens" at the 2020 American Phytopathological Society Annual Meeting (virtual conference). August 12, 2020.
2. **Ma, Z.*** (2020). Invited panelist for the panel "Socio-cultural narratives around land tenure and pro-environmental behavior" at the 2020 International Symposium on Society and Resource Management (virtual conference). July 11-26, 2020.

3. **Ma, Z.*** (2019). Integrating Human Dimensions to Understand Nonnative Plant Invasion. Keynote at the Indiana Arborist Association (IAA) 71st Annual Conference. Indianapolis, IN.
4. **Ma, Z.***, Bauchet, J., Radel, C., Godoy, R., & Zanotti, L. (2017). Using direct transfers to promote conservation: theories, realities, and opportunities. Invited inaugural seminar, Center for Ecological Research and Education (CERE) speaker series, Idaho State University, Pocatello, ID.
5. **Ma, Z.*** (2017). Invasive plant management on family forestlands: Landowner awareness, attitudes, and behaviors. Invited guest lecture, University of Massachusetts, Amherst, MA.
6. **Ma, Z.*** (2016). The Human dimensions of invasive plant management on non-industrial private forestland. Invited seminar, Energy & Environmental Forum, Howard H. Baker Jr Center for Public Policy, University of Tennessee, Knoxville, TN.
7. **Ma, Z.***, & Steele Jones, D.*⁺⁺ (2016). Conceptualizing, practicing, and communicating about sustainability: preliminary results from a survey of Forest Service employees. Invited webinar, Region/Station/Area Climate Change and Sustainability Staff Meeting, USDA Forest Service. The Climate Change Coordinators Staff Meeting
8. **Ma, Z.***, & Steele Jones, D.*⁺⁺ (2016). Conceptualizing, practicing, and communicating about sustainability: preliminary results from a survey of Forest Service employees. Invited webinar, Office of Sustainability and Climate Change, USDA Forest Service.
9. **Ma, Z.*** (2016). Engaging family forest owners in the prevention and control of invasive plants in privately-owned forest landscapes. Invited webinar, Family Forest Research Center, a joint effort between USDA Forest Service Northern Research Station and University of Massachusetts Amherst.
10. **Ma, Z.*** (2015). Human dimensions of private forest management and conservation. Invited guest lecture, North Carolina Agricultural and Technical State University.
11. **Ma, Z.*** (2015). Incorporating climate change into the management of National Forests: Lessons learned from a Forest Service employee survey. Invited webinar, Region/Station/Area Climate Change Coordinators' Call, USDA Forest Service.
12. **Ma, Z.*** (2015). Incorporating climate change into the management of National Forests: Lessons learned from a Forest Service employee survey. Invited webinar, NEPA Knowledge Cafe, USDA Forest Service.
13. **Ma, Z.*** (2015). Incorporating climate change into the management of National Forests: Lessons learned from a Forest Service employee survey. Invited webinar, Sustainable Operations Collective, USDA Forest Service.
14. **Ma, Z.*** (2015). Incorporating climate change into the management of National Forests: Lessons learned from a Forest Service employee survey. Invited webinar, North Central Climate Science Center, U.S. Geological Survey, Department of Interior.
15. **Ma, Z.*** (2015). Different ways of knowing and doing: Climate change perceptions and adaptations in the context of social-ecological change. Invited seminar, Department of Natural Resources and Environmental Sciences, University of Illinois at Urbana-Champaign.
16. Laatsch, J.*⁺, & **Ma, Z.***. (2014). USDA Forest Service perspectives on forest management in a changing climate. Invited webinar, North Central Climate Science Center, U.S. Geological Survey, Department of Interior.
17. **Ma, Z.*** (2014). Climate change perception and adaptation in the context of agricultural livelihoods: A case study of smallholder farmers in northwest China. Invited seminar, The Vincent and Elinor Ostrom Workshop in Political Theory and Policy Analysis Colloquium Series, Indiana University, Bloomington, IN.

18. **Ma, Z.*** (2010). Bridging the gap between policy and practice: Human dimensions of natural resource management. Invited seminar, Northwest Agriculture and Forestry University, Yangling, Shaanxi Province, China.
19. **Ma, Z.***, Becker, D.R., & Kilgore, M.A. (2008). Bridging the gap between policy and practice: Assessing cumulative environmental impacts under state environmental review frameworks. Invited seminar, School of Forest Resources, University of Maine, Orono, ME.
20. **Ma, Z.*** (2007). Educational outreach: Marketing forest certification to family forest owners in northern Minnesota. Invited presentation, The 2007 Family Forest Stewardship Conference, St. John's University, Collegeville, MN.

Presentations at Professional Conferences

Below is a summary table of oral presentations given by Dr. Ma and her graduate students and post-doctoral scholars at international, national, and regional conferences. Poster presentations given by Dr. Ma, her graduate students, and her post-doctoral scholars, as well as oral and poster presentations given by research collaborators with Dr. Ma as a co-author, are not included in the table (>50).

	Dr. Ma as presenter	Mentored graduate student or post-doctoral scholar as presenter with Dr. Ma as co-author	Total
# of oral presentations as of December 2020	26	47	73

Below is a list of international, national, and regional conferences at which Dr. Ma and her graduate students and post-doctoral scholars have given oral presentations:

- International Symposium on Society and Resource Management (ISSRM)
- American Association of Geographers (AAG) Annual Meeting
- Sustainability and Development Conference
- Society of American Foresters (SAF) National Convention
- Natural Areas Conference
- Forests and Livelihoods: Assessment, Research, and Engagement (FLARE) Annual Meeting
- Joint Conference of the Association for the Study of Food and Society (ASFS) & Agriculture, Food and Human Values Society (AFHVS)
- World Conference on Ecological Restoration
- Pathways: Human Dimensions of Wildlife Conference
- Ecological Society of America Annual Meeting
- Soil and Water Conservation Society International Annual Conference
- Sustainability and Social Science Research Symposium
- Regional Association of the International Association for Landscape Ecology Annual Meeting
- Midwest Invasive Plant Network Invasive Plant Symposium
- Global Initiative on Climate Adaptation Research and Understanding through the Social Sciences (ICARUS) Meeting
- Midwest Fish and Wildlife Conference
- Restoring the West Conference
- NOAA's Annual Climate Prediction Applications Science Workshop
- IUFRO 3.08 Small Scale Forestry Symposium

TEACHING AND MENTORING

Courses Taught and Assisted

Purdue University (instructor)

Course number and name	Level	Credit hours / contact hours	Year taught	# of students enrolled
FNR 22310 (cross-listed with POL 22300) Introduction to Environmental Policy	Undergraduate	3 / 45	2014	38
			2015	45
			2016	69
			2017	43
			2019	50
			2020	59
FNR 37500 Human Dimensions of Natural Resource Management	Undergraduate	3 / 45	2014	54
			2015	84
			2016	57
			2017	67
			2018	62
			2019	73
			2020	84
			2021	100
FNR 58000 Research Methods for Natural Resources Social Science	Graduate	3 / 45	2016	15
			2018	11
			2020	12

Utah State University (instructor)

Course number and name	Level	Credit hours / contact hours	Year taught	# of students enrolled
ENVS 3000 Natural Resources Policy and Economics	Undergraduate	3 / 42	2009	62
ENVS 3010 Fundamentals of Natural Resource and Environmental Policy	Undergraduate	3 / 42	2010	52
			2011	89
			2012	45
ENVS 6150 Conservation Policy for Private Lands	Graduate	3 / 42	2010	6
			2011	6
ENVS 6910 Directed Study: Qualitative Research Methods	Graduate	1 / 14	2011	2

University of Minnesota

ENR 1201 Conservation and Management of Natural Resources (Spring 2005; co-instructor)
ESPM 3051 Experience and Training in a Field Setting (Fall 2005; instructor)
ESPM 3241W/5241 Natural Resource and Environmental Policy (Spring 2006; TA)
ESPM 3480/5480 Community Involvement in Water Resources Issues in China (Summer 2005; TA)

Guest Lectures

AGR 11900 Introduction to Forestry and Natural Resources Academic Programs (Purdue; 2013,

2014, 2015, 2016, 2017, 2018, 2019; 2020)
 AGR 59500 International Engagement & Development Strategies (Purdue; 2016, 2017)
 FNR 19800 The Nature of Wild Things Learning Community (Purdue; 2017)
 FNR 58000 Research Methods for Natural Resource Social Science (Purdue; 2013, 2014, 2015, 2017, 2019)
 FNR 59800 Urban Ecology (Purdue; 2016, 2017)
 ANTH 605 Ethnographic Methods (Purdue; 2017, 2019)
 CSR 600 Introduction to Research in Consumer Science (Purdue; 2017)
 Family Forests of New England (University of Massachusetts Amherst; 2017)

Mentoring

Dr. Ma served or is serving as the advisor (chair) or co-advisor (co-chair) for 16 graduate students (7 MS and 9 PhD). Dr. Ma’s MS and PhD students have been supported through her external grants, sometimes supplemented by internal and external fellowships. Of these 16 graduate advisees, 10 completed their degrees and have all been well placed with highly competitive positions after their time in Dr. Ma’s lab. Dr. Ma also served or is serving as a graduate committee member for 33 graduate students (12 MS and 21 PhD). Responsibilities of a graduate committee member at Purdue University and previously Utah State University include, but are not limited to, providing direction for student research, evaluating student research, designing and evaluating qualifying exams (for PhD students), and providing formal and informal mentoring. Dr. Ma has also worked closely with several students for whom she served or is serving as a graduate committee member on publications as part of their thesis or dissertation research.

	MS students		PhD students	
	Previous	Current	Previous	Current
Advisor/co-advisor	6 (+1)	0	4	5
Graduate committee member	11	1	10	11

Advisor/Co-advisor of Graduate Students

Current PhD students

1. Rebekah Ohara; PhD (candidate); Natural Resource Social Science; Purdue University; 2017-present (co-advised by Dr. Doug Jacobs)
2. Brooke McWherter; PhD (candidate); Natural Resource Social Science; Purdue University; 2018-present
3. Taylor Stinchcomb; PhD (candidate); Natural Resource Social Science (and Interdisciplinary Ecological Science & Engineering); Purdue University; 2018-present
4. Nathan Shoaf; PhD; Natural Resource Social Science (and Interdisciplinary Ecological Science & Engineering); Purdue University; 2020-present
5. Mary Strickland; PhD; Natural Resource Social Science (and Interdisciplinary Ecological Science & Engineering); Purdue University; 2021-present

Previous PhD students (and their current positions)

1. Rebecca (Becca) Nixon; PhD; Natural Resource Social Science (and Interdisciplinary Ecological Science & Engineering); Purdue University; 2017-2020; starting a post-doctoral research associate position with the Illinois-Indiana Sea Grant in January 2021.
2. Landon Young; PhD; Civil Engineering (and Interdisciplinary Ecological Science &

Engineering); Purdue University; 2014-2019 (co-advised by Dr. David Yu); currently employed as Business Strategist at Crema, a digital product agency

3. Mysha Clarke; PhD; Natural Resource Social Science; Purdue University; 2014-2018; currently employed as a tenure-track assistant professor in the School of Forest Resources and Conservation at the University of Florida
4. Morey Burnham; PhD; Human Dimensions of Ecosystem Science and Management; Utah State University; 2010-2014; currently employed as a tenure-track assistant professor in the Department of Sociology, Social Work, and Criminology at Idaho State University

Previous MS students (and their current positions)

1. Meagan Rathjen; MS; Natural Resource Social Science (and Interdisciplinary Ecological Science & Engineering); Purdue University; 2018-2021 (did not complete degree)
2. Kimberly Ordonez; MS; Forestry; Purdue University; 2018-2020 (co-advised by Dr. Songlin Fei); currently a PhD student at The Ohio State University School of Environment and Natural Resources
3. Jason (Jake) Hawes; MS; Natural Resource Social Science (and Interdisciplinary Ecological Science & Engineering); Purdue University; 2017-2019; currently a PhD student at the University of Michigan School for Environment and Sustainability with full fellowship
4. Jenn Domenech; MS; Natural Resource Social Science; Purdue University; 2017-2018; currently employed as Outreach Specialist at the Indiana Department of Natural Resources
5. Keri Iles; MS; Natural Resource Social Science; Purdue University; 2015-2017; currently employed as Regulations and Permitting Advisor for Land Use/Projects at BP, Alaska
6. Jamie Laatsch; MS; Human Dimensions of Ecosystem Science and Management; Utah State University; 2012-2014; currently employed as Communications Manager, Henry's Fork Foundation, Idaho
7. Seth Cook; MS; Human Dimensions of Ecosystem Science and Management; Utah State University; 2010-2012; currently employed as Director of Land Conservation, Pee Dee Land Trust, South Carolina

Competitive Research and Leadership Awards Received by Graduate Advisees (Excluding Travel Awards)

1. Taylor Stinchcomb. 2021. Interdisciplinary Ecological Science & Engineering Outstanding Graduate Student in Research Award, Purdue University.
2. Brooke McWherter. 2020. D. Woods Thomas Memorial International Support Fund, Purdue University.
3. Meagan Rathjen. 2019. D. Woods Thomas Memorial International Support Fund, Purdue University.
4. Rebecca (Becca) Nixon. 2019. Third place, Doctoral Oral Paper Competition, West Lakes Division of the 2019 American Association of Geographers Annual Meeting, Cedar Falls, IA.
5. Rebecca (Becca) Nixon. 2018. D. Woods Thomas Memorial International Support Fund, Purdue University.
6. Rebecca (Becca) Nixon. 2018. U.S. Borlaug Summer Institute on Global Food Security Fellowship.
7. Mysha Clarke. 2017. Exemplary Graduate Student Service Award, Department of Forestry and Natural Resources, Purdue University.
8. Mysha Clarke. 2017. First place, Ph.D. Research Poster Award, Department of Forestry and Natural Resources, Purdue University.

9. Mysha Clarke. 2016-2017. Diversity Ambassador, Society of American Foresters.
10. Mysha Clarke. Class of 2016. Fellow, Emerging Leaders in Science & Society (ELISS) program, The American Association for the Advancement of Science.
11. Jamie Laatsch. 2013. Second place, Forest Science & Technology Board Student Presentation Competition, Society of American Foresters.

Graduate Committee Member

Current PhD student committees

1. Lindsay Darling; PhD; Urban Ecology; Purdue University; 2020-present
2. Marian Wahl; PhD; Wildlife; Purdue University; 2020-present
3. Margaret Busse; PhD; Civil Engineering (and Interdisciplinary Ecological Science & Engineering); Purdue University; 2016-present
4. Peyman Yousefi; PhD (candidate); Civil Engineering (and Interdisciplinary Ecological Science & Engineering); Purdue University; 2020-present
5. Israt Ferdous; PhD (candidate); Education (and Interdisciplinary Ecological Science & Engineering); Purdue University; 2018-present
6. Camille Griffith; PhD (candidate); Wildlife; Purdue University; 2018-present
7. Kara Salazar; PhD (candidate); Natural Resource Social Science; Purdue University; 2018-present
8. Rachel Scarlett; PhD (candidate); Agricultural and Biological Engineering (and Interdisciplinary Ecological Science & Engineering); Purdue University; 2018-present
9. Eoghan McCroskey; PhD (candidate); Entomology (and Interdisciplinary Ecological Science & Engineering); Purdue University; 2017-present
10. Mayra Rodríguez González; PhD (candidate); Urban Ecology; Purdue University; 2017-present
11. Brian MacGowan; PhD (candidate); Natural Resource Social Science; Purdue University; 2013-present

Current MS student committees

1. Haley Autumn Hartenstine; MS; Aquatic Ecology; Purdue University; 2020-present

Complete PhD student committees

1. Dante Francomano; PhD; Soundscape Ecology (and Interdisciplinary Ecological Science & Engineering); Purdue University; 2017-2020
2. Andrea Brennan; PhD; Forestry; Purdue University; 2017-2020
3. Sarah Huang; PhD; Anthropology (and Interdisciplinary Ecological Science & Engineering); Purdue University; 2016-2020
4. Renee Obringer; PhD; Environmental and Ecological Engineering (and Interdisciplinary Ecological Science & Engineering); Purdue University; 2016-2020
5. Elisabeth Krueger; PhD; Civil Engineering (and Interdisciplinary Ecological Science & Engineering); Purdue University; 2016-2019
6. Leah Sandler; PhD; Botany and Plant Pathology (and Interdisciplinary Ecological Science & Engineering); Purdue University; 2015-2019
7. Yuling Gao; PhD; Natural Resource Social Science; Purdue University; 2015-2018
8. Kate Haapala; PhD; Political Science (and Interdisciplinary Ecological Science & Engineering); Purdue University; 2018 (only served on her qualifying exam committee)
9. Daniel Kinka; PhD; Ecology; Utah State University; 2013-2017
10. Lisa Welsh; PhD; Human Dimensions of Ecosystem Science and Management; Utah State

University; 2010-2014

Complete MS student committees

1. Brennan Radulski; MS; Natural Resource Social Science; Purdue University; 2018-2020
2. Jonathan Mill; MS; Agricultural and Biological Engineering; Purdue University; 2018-2020
3. Matthew Harris; MS; Soundscape Ecology (and Interdisciplinary Ecological Science & Engineering); Purdue University; 2015-2016
4. Belyna Bentlage; MS; Natural Resource Social Science (and Interdisciplinary Ecological Science & Engineering); Purdue University; 2014-2015
5. Saleh Ahmed; MS; Sociology; Utah State University; 2012-2015
6. Enjie Li; MS; Bioregional Planning; Utah State University; 2012-2013
7. Tyler Allen; MS; Bioregional Planning; Utah State University; 2012-2013
8. Kathryn Davis; MS; Human Dimensions of Ecosystem Science and Management; Utah State University; 2010-2012
9. Richie Gardner; MS; Forestry; Utah State University; 2010-2012
10. Gary Bezzant; MS; Human Dimensions of Ecosystem Science and Management; Utah State University; 2012
11. Adam Perschon; MS; Bioregional Planning; Utah State University; 2011

Post-doctoral Scholar Mentees

1. Dr. Rebecca (Becca) Nixon; PhD in Natural Resource Social Science (Purdue University); Post-doctoral Research Associate, Illinois-Indiana Sea Grant and Purdue University; 2021-present (co-advised by Dr. Stuart Carlton)
2. Dr. Anna Erwin; PhD in Planning, Governance, and Globalization (Virginia Polytechnic Institute and State University); Post-doctoral Research Associate, Purdue University; 2018-present
3. Dr. Ruxandra Popovici; PhD in Environment (Duke University); Post-doctoral Research Associate, Purdue University; 2018-2019
4. Dr. Becky Barak; PhD in Plant Biology and Conservation (Northwestern University); Smith Postdoctoral Fellow, Society for Conservation Biology; 2017-2019 (co-advised by Dr. Lars Brudvig at Michigan State University and Dr. Kayri Havens at the Chicago Botanic Garden)
5. Dr. Diana Steele Jones; PhD in Anthropology (Purdue University); Post-doctoral Research Associate, Purdue University; 2015-2017

Visiting Students and Scholars

1. Zelin Wang; Xi'an Jiaotong University; visiting scholar; 09/2017-02/2018; 08/2018-09/2019
2. Dr. Dingming An; Associate Professor, Qinghai University; visiting scholar; 12/2014-12/2015; 01/21/2016-12/31/2016
3. Daniela Alvarado Rincon; Universidad Nacional de Colombia; visiting student; 06/2015-12/2015 (on-campus work); 03/06/2016-05/01/2016 (field work)

Undergraduate Student Mentees

1. Jordan Young, undergraduate research assistant, Purdue University, 2021-present
2. Melanie Raplee, undergraduate research assistant, Purdue University, 2021-present
3. Angela Guo, undergraduate research assistant, Purdue University, 2019-2021
4. Emilie Washer, undergraduate research assistant, Purdue University, 2018-present
5. Mya Smith, undergraduate research assistant, Purdue University, 2019-2020

6. Marly Beck, undergraduate research assistant, Purdue University, 2018-2019
7. Iris McFarlin, undergraduate research assistant, Purdue University, 2018-2019
8. Kasha Halbleib, undergraduate research assistant, Purdue University, 2017-2019
9. Morgan Grey, undergraduate research assistant, Purdue University, 2017-2018
10. Priyanka Shankar, undergraduate research assistant, Purdue University, 2015-2018
11. Austin Sheetz, undergraduate research assistant, Purdue University, 2016-2017, 2018
12. Samuel Cody, undergraduate research assistant, Purdue University, 2017
13. Colleen Hartel, undergraduate research assistant; Purdue University, 2014
14. Rob Watson; Undergraduate research assistant; Utah State University
15. Patrick Barrus; Undergraduate research fellow; Utah State University

Undergraduate Honors Students

1. Claudia Pobanz; completed an Honors contract for FNR 22310 Introduction to Environmental Policy; Spring 2019
2. Kasha Halbleib; completed an Honors contract for FNR 37500 Human Dimensions of Natural Resource Management; Spring 2018
3. Katie D'Addato; completed an Honors contract for FNR 37500 Human Dimensions of Natural Resource Management; Spring 2018
4. Jayant Jayant; completed an Honors contract for FNR 22310 Introduction to Environmental Policy; Spring 2017
5. Kristen Sequeira; completed an Honors contract for FNR 22310 Introduction to Environmental Policy; Spring 2017
6. Amy Rohman; Honors undergraduate fellow; Utah State University
7. Michaela Stuver; Honors undergraduate fellow; Utah State University
8. Brooke McNaughton; Honors undergraduate fellow; Utah State University

AWARDS

- University Faculty Scholar, Purdue University, 2020
- Faculty Fellow, Faculty Leadership Academy for Interdisciplinary Research (FLAIR) Fellows Program, Office of the Executive Vice President for Research and Partnerships, Purdue University, 2019
- Outstanding Graduate Mentor/Teacher Award, Department of Forestry and Natural Resources, Purdue University, 2018
- Seed for Success Award, Purdue University, 2018
- William L. Hoover Exemplary Faculty Service Award, Department of Forestry and Natural Resources, Purdue University, 2017
- The Bravo Award, College of Agriculture, Purdue University, 2017
- Faculty Policy Fellow, Purdue Policy Research Institute, Purdue University, 2017-2018
- Undergraduate Research Mentor of the Year for the Quinney College of Natural Resources, Utah State University, 2013

SERVICE AND LEADERSHIP

Leadership in Professional Organizations

- International Association for Society and Natural Resources
 - Council member (elected), 2014-2017
 - Executive Officer (Secretary; elected), 2018-2020

- Chair of the Communications Committee, 2018-2020
- Society of American Foresters
 - B1 Private Forest Land Working Group secretary, 2014-2019
 - Member and Subject Area Representative for F Social and Related Sciences, Forest Science & Technology Board, 2018-present
- American Association of Geographers
 - Board member of the Human Dimensions of Global Change Specialty Group (elected), 2021-present

Conference organizing

Organized and co-presented at the Social Science Research Workshop (with Anna Erwin, Ruxandra Popovici, Jonathan Bauchet, Laura Zanotti, and Linda Prokopy). Arequipa Nexus Institute, August 6, 2018, Purdue University, West Lafayette, Indiana (June-August 2018)

Served as a member of the 2017 Society of American Foresters (SAF) National Convention Program Committee and organized the Plenary 2 for the 2017 SAF National Convention (2016-2017)

Co-organized the Experimental Methods for the Environmental and Social Sciences Workshop (with Laura Zanotti); Building Sustainable Communities Signature Area Methods Series, December 4, 2017, West Lafayette, Indiana; Purdue University Center for the Environment (September-December 2017)

Organizing Committee and panelist for Panel 1: Interplay between resilience, sustainability, adaptation and transformation; Building Sustainable Communities Workshop: New Perspectives on Sustainability and Resilience, March 23-24, 2017, West Lafayette, Indiana; Purdue University Center for the Environment (August 2016-March 2017)

Member of the Program Committee for the 3rd Transdisciplinary Weed Management Workshop: Knowledge Nexus: Applying Transdisciplinary and Systems Approaches for Sustainable Weed Management, June 6-10, 2016, Alberta, Canada; co-sponsored by the ANdiNA group of international weed/invasive plant scientists and the Canadian Weed Science Society (August 2015-June 2016)

Editorial Board Member

Society and Natural Resources (2018-2020)

Associate Editor for Academic Journals

Small-Scale Forestry (2016-present)

Forest Science (2016-present)

Environmental Management (2020-present)

Society and Natural Resources (2020-present)

Guest Editor of Special Issues for Academic Journals

I was invited as a co-editor (with my former PhD student, Morey Burnham, and a post-doctoral researcher Laura Vang Rasmussen) for a special section for *World Development*. This special section was titled “Climate change adaptation: interactions, synergies, contradictions, and tradeoffs across scales.” It included nine contributing articles that examined climate change adaptation pathways and development challenges in Australia, Cambodia, Burkina Faso, China, Kenya, Mexico, Nicaragua, as well as Alaska and Oregon. (2016-2018)

I was invited as a co-editor (with Susan Clayton from the College of Wooster, Alia Dietsch from the

Ohio State University, Gerard Kyle from Texas A&M University, Sarah Reed from the Wildlife Conservation Society, and Kenneth Wallen from the University of Arkansas) for a special section for *Conservation Biology*. This issue was titled “Conservation Psychology Research and Practice.” It included seven contributing articles that examined contemporary conservation challenges with a particular focus on the role that social, environmental, and conservation psychology can play in informing conservation practices. (2018-2020)

I was invited as a co-editor (with Paige Fisher from the University of Michigan, Robyn Wilson from The Ohio State University, and Carina Keskitalo from Umeå University) for a Research Topic (i.e., special issue) for *Frontiers in Climate*. This issue is titled “Managing land for risk: Climate decision-making by forest, farm, and range landowners.” Currently, we are in the process of selecting contributions to this special issue to address climate-related decision making and management behavior by individual (as opposed to institutional) owners and managers of lands that produce food, fiber, and other ecosystem services of importance to society. (2020-present)

Peer Reviewer for Academic Journals (# of reviews in 2018: 18; 2019: 20; 2020: 16)

<i>Agricultural Systems</i>	<i>Journal of Environmental Management</i>
<i>Agriculture and Human Values</i>	<i>Journal of Environmental Planning and Management</i>
<i>Biological Conservation</i>	<i>Journal of Forestry</i>
<i>Climate</i>	<i>Journal of Integrative Agriculture</i>
<i>Climate and Development</i>	<i>Journal of Natural Resources Policy Research</i>
<i>Climatic Change</i>	<i>Journal of Rural Studies</i>
<i>Climate Policy</i>	<i>Journal of the American Water Resources Association</i>
<i>Conservation Biology</i>	<i>Journal of Wildlife Management</i>
<i>Conservation Science and Practice</i>	<i>Land Use Policy</i>
<i>Ecology and Society</i>	<i>Landscape and Urban Planning</i>
<i>Energy Policy</i>	<i>Mitigation and Adaptation Strategies for Global Change</i>
<i>Environment, Development and Sustainability</i>	<i>Northern Journal of Applied Forestry</i>
<i>Environmental Conservation</i>	<i>Policy Sciences</i>
<i>Environmental Impact and Assessment Review</i>	<i>Silva Fennica</i>
<i>Environmental Research Letters</i>	<i>Small-Scale Forestry</i>
<i>Environmental Science and Policy</i>	<i>Society & Natural Resources</i>
<i>FACETS</i>	<i>Sustainability</i>
<i>Florida Scientist</i>	<i>The Geographic Journal</i>
<i>Forest Policy and Economics</i>	<i>Water</i>
<i>Forest Science</i>	<i>WIREs Climate Change</i>
<i>Geography Compass</i>	
<i>International Forestry Review</i>	
<i>Irrigation and Drainage</i>	

Reviewer for Regional, National, and International Funding Agencies

- National Science Foundation (2020)
- U.S. Department of Defense’s Historically Black Colleges and Universities/Minority Institutions (HBCU/MI) Science Program (2019, 2020)
- Minnesota Aquatic Invasive Species Research Center (2020)
- Leibniz Association (Germany) Leibniz Competition(2019)
- The U.K. Science and Technology Facilities Council(2018)

- Australian National Commission for UNESCO Grants Program (2017)
- Oregon Sea Grant Social Science and Human Dimension Research Program
- Utah Agricultural Experiment Station
- National Estuarine Research Reserve System Science Collaborative Grants Program
- National Geographic Society Grants Program

Other Invited Reviews

- Examiner of PhD dissertation, Charles Sturt University, Australia
- External reviewer for manuscripts (co-)authored by USDA Forest Service scientists

Leadership and Service Activities at Purdue University

Current

- Purdue University, Center for the Environment, Building Sustainable Communities Signature Research Area (Convener: July 2020-present)
- Purdue University, Executive Committee for the Arequipa Nexus Institute for Food, Energy, Water and the Environment (member: January 2018-present)
- Purdue University, Procedural Ethics Committee for the Arequipa Nexus Institute for Food, Energy, Water and the Environment (co-chair: January 2018-present)
- Purdue University, Ecological Sciences & Engineering Interdisciplinary Graduate Program, Admissions Committee (member: July 2017-present)
- Purdue University, College of Agriculture, Women-Faculty-in-Agriculture (co-coordinator; 2019-present)
- Department of Forestry and Natural Resources (FNR), Justice, Equity, Diversity, and Inclusion (JEDI) Council (co-chair: August 2020-present)
- FNR, Visiting Scientist and Seminar Speaker Committee (member: August 2013-March 2015; chair: March 2015-present)
- FNR, Graduate Committee (member: August 2015-present)
- FNR, Primary Committee (for tenure and promotion; member: August 2016-present)
- FNR, Mentoring Cluster for Elin Jacobs, Research Assistant Professor (member: 2019-present)
- FNR, Mentoring Cluster for Stuart Carlton, Assistant Director for the Illinois-Indiana Sea Grant (member: 2020-present)

Complete

- Purdue University, College of Agriculture, 10th Annual Martin Luther King Jr. Diversity Awareness Week (invited panelist for forum “BIPOC Farmers in Sustainable Agriculture”: January 28, 2021).
- Purdue University, College of Agriculture, Strategic Planning Committee (ad hoc committee member: September 2019-April 2020)
- Purdue University, Social Science Institutional Review Board (board member: 2017-2019)
- Purdue University, Borlaug Summer Institute on Global Food Security program (reviewer: 2015, 2016, 2017, 2018, 2019)

- Purdue University, The Office of the Provost and Susan Bulkeley Butler Center for Leadership Excellence, 9th Annual Conference for Pretenure Women (invited panelist for session “Making Service Work for You”: September 6-7, 2018).
- Purdue University, The Office of the Provost and Susan Bulkeley Butler Center for Leadership Excellence, 8th Annual Conference for Pretenure Women (invited panelist for session “Research/Resources, Teaching/Instructions, and Service”: September 7-8, 2017).
- Purdue University, Office of the Executive Vice President for Research and Partnerships, Survey about Institutional Review Board Processes at Purdue (co-organizer: November 2016-August 2017)
- Purdue University, Executive Committee for the Purdue Water Community (member: 2015-2016)
- Purdue University, College of Engineering & College of Liberal Arts, Building Sustainable Communities cluster hire, Coupled Natural & Human Systems Dynamics Faculty Search Committee (member: September 2014-March 2015)
- College of Agriculture, Strategic Planning Committee (member: September 2019-April 2020)
- College of Agriculture, Diversity Action Team in Agriculture (member: 2015-2018)
- College of Agriculture, Grade Appeals Committee (member: 2015-2017)
- FNR, Social Committee (member: 2014- 2019)
- FNR, Mentoring Cluster for Liz Jackson, Engagement Specialist, Executive Director of the Indiana Forestry & Woodland Owners Association, and Executive Director of the Walnut Council (convener: 2017-2018)
- FNR, Mentoring Cluster for Lydia Utley, Data Analyst (member: 2017-2018)
- FNR, Forest Economics and Management Faculty Search Committee (member: April 2017-December 2017)
- FNR, Budget and Steering Committee (member: 2015-2017)
- FNR, Purdue Post-Doctoral Scholars in Natural Resources program (reviewer: 2017)
- FNR, Investment in Excellence Small Grant program (reviewer: 2015, 2016)
- FNR, Ecological/Resource/Environmental Economics Faculty Search Committee (member: August-December 2015)
- FNR, Ecological Economics and Sustainability Faculty Search Committee (member: August-December 2013)

Service Activities at Utah State University

- University Sustainability Curriculum Committee (member: 2010-2011)
- College of Agriculture, Department of Landscape Architecture and Environmental Planning, Bioregional Planning Faculty Search Committee (member: October 2012-March 2013)
- College of Natural Resources (CNR), Strategic Planning Committee (member: December 2011-June 2012)
- CNR, Graduation Committee (member: 2010)
- Department of Environment and Society (ENVS), Human Dimensions of Ecosystem Science and Management Graduate Program, Self-Study Committee (chair: 2012)
- ENVS, Interim Department Head Search Committee (member: November 2010-February 2011)

- ENVS, Sustainable Communities Extension Specialist Search Committee (member: June 2010-January 2011)
- ENVS, Ad-hoc Graduate Statistical Requirements Committee (co-chair: 2010)
- ENVS, Environmental Studies Major Curriculum Committee (member: 2010)
- ENVS, Recreation Resource Management Faculty Search Committee (member: September 2009-March 2010)

NON-PROFIT WORK EXPERIENCE

Campaign Assistant, Greenpeace, Beijing, China. (09/2000-07/2002)

Assisted in establishing the first Greenpeace office in mainland China. Developed and maintained a communication network of Chinese media, relevant government agencies, and local, national and international non-profit organizations and foundations working on environmental and natural resource issues in China. Assisted in the development of anti-incineration and forest conservation campaign.

Founder and Editor, China Bird Watch, Beijing, China. (11/2001-08/2002)

Established a monthly newsletter dedicated to wild bird protection in China, which was widely disseminated among Chinese birdwatchers, journalists and reporters from the major media, student environmental groups, and local, national and international non-profit organizations and foundations working on environmental and natural resource issues in China.

Project Leader, The Save Tibetan Antelope Campaign, Beijing, China. (04/2001-12/2001)

Organized the Save Tibetan Antelope Campaign among universities and colleges in China. Raised funds for the Wild Yak Team, a wildlife protection group in Qinghai province. Co-developed an English website for the Tibetan Antelope Information Center, a non-profit organization dedicated to the protection of wildlife on the Tibetan Plateau.

PROFESSIONAL AND ACADEMIC MEMBERSHIPS

- Xi Sigma Pi Forestry Honor Society
- International Association for Society and Natural Resources (2007-present)
- Society of American Foresters (2010-present)
- American Association of Geographers (2016-present)
- The International Association for the Study of the Commons (2019)