

Adena Rissman

Assistant Professor, Human Dimensions of Ecosystem Management
Department of Forest and Wildlife Ecology
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Research Interests

- Natural resource policy design, implementation, and evaluation
- Ecological outcomes of resource policy and conservation strategies
- Social and legal adaptation to environmental change

Professional Preparation

PhD. 2008. Environmental Science, Policy, and Management. University of California at Berkeley.
Thesis: Conservation easement outcomes at multiple scales.
Advisors: Adina Merenlender (co-chair), Sally Fairfax (co-chair), Nathan Sayre

B.A. 1999. Plan II Liberal Arts Honors Program, concentration in Environmental Studies.
University of Texas at Austin. Graduation with Highest Honors in May, 1999. GPA 3.95

Appointments

Assistant Professor: 2009-present
Human Dimensions of Ecosystem Management
Department of Forest and Wildlife Ecology
University of Wisconsin - Madison

Work Experience (highlights)

Postdoctoral Researcher: University of California, Berkeley, 2008

Lecturer: Associates Degree Program at San Quentin Prison, California, 2004 and 2006

State Forest Planning Analyst: Wisconsin Department of Natural Resources, Madison, WI, 2000-2003

Teaching and Mentoring

Natural Resources Policy, Forest and Wildlife Ecology/Nelson Institute, 2009-2013

Parks and Protected Areas, Forest and Wildlife Ecology/ Community and Environmental
Sociology, Fall 2010

Conservation in a Changing Climate, Forest and Wildlife Ecology/Nelson Institute, Spring 2011

Approaches to Socio-ecological Analysis, Forest and Wildlife Ecology, Fall 2012

GRADUATE STUDENTS SUPERVISED

Christina Locke, PhD program in Forestry, 2009-present (RA funding, USDA fellowship)

Andrew L'Roe, PhD program in Forestry, 2011-present (3-year NSF fellowship)

Chloe Wardropper, PhD program in Forestry, 2012-present (RA funding)

Ellen Geisler, MS program in Forestry, 2012-present (RA funding)

POST-DOCTORATES SUPERVISED

Chadwick Rittenhouse, 2010-2012

Menka Bihari, 2010-2011

Sean Gillon, 2011-2013

GRADUATE COMMITTEES

Jon Breschak, Forestry PhD

Sarah Carter, Forestry PhD

Chris Hamilton, Forestry PhD

Jessica Price, Environment and Resources PhD

Sean DuBois, Environment and Resources MS

Christine Anhalt, Conservation Biology and Sustainable Development MS, graduated 2011

Andrea Bachrach, Water Resources Management MS, graduated 2011

Nina Chaopricha, Environment and Resources PhD Preliminary Examination

Kelly Crosset, Forestry MS, graduated 2011

Juliee de la Terre, Environment and Resources MS, graduated 2013

Tiffany Grade, Conservation Biology and Sustainable Development MS, graduated 2011

James Hook, Water Resources Management MS, graduated 2010

Jessica Long, Environment and Resources MS completed in 2011

Melissa Motew, Environment and Resources MS (advanced to PhD)

Erik Olson, Environment and Resources PhD, graduated 2013

Marty Pfeiffer, Environment and Resources MS, graduated 2010

Marie Russo, Conservation Biology and Sustainable Development MS, graduated 2011

Grants

- PI, USDA McIntire-Stennis Act. "The Changing Landscape of Industrial Forest

- Ownership and Management.” \$84,000, 09/2014 - 08/2016. Co-PI M. Ozdogan.
- PI, Wisconsin Department of Natural Resources. “Forest operations in the context of multiple stressors.” \$14,000, 10/2012 - 06/2014.
 - PI, USDA McIntire-Stennis Act. “Forestry and local governments: planning for forests, development, and roads in a dynamic landscape.” \$90,000, 09/2012 - 08/2014.
 - Co-PI, National Science Foundation, Integrative Graduate Education and Research Training (IGERT). “Novel ecosystems, rapid change, and no-analog conditions: the future of biodiversity conservation in human-dominated landscapes.” \$3 million. 7/1/2012-6/30/2017 PI: Volker Radeloff, co-PIs Anthony Ives, Susan Millar, and Claudio Gratton.
 - PI, Resources Legacy Fund. “Private Land Conservation in a Changing Climate.” \$50,000, 2/2012-9/2014.
 - Co-PI, National Science Foundation. Water Sustainability and Climate. “Climate Change, Shifting Land Use, and Urbanization in a Midwestern Agricultural Landscape: Challenges for Water Quality and Quantity.” \$4.9 million. 3/2011-3/2016. PI Kucharik, co-PIs Carpenter, Gries, Loheide, Turner. (Rissman co-PI portion: ~\$800,000.)
 - PI, Resources Legacy Fund. “Private Land Conservation in a Changing Climate.” \$50,000, 5/2010-10/2011.
 - PI, Wisconsin Department of Natural Resources. Wisconsin Initiative on Climate Change Impacts. “Forestry and Climate Change in Wisconsin.” \$124,000, 3/2010-6/2012.
 - PI, University of Wisconsin-Madison Fall Research Competition, Social Studies Division. “Adaptive Governance on Private Lands.” 7/2010-6/2012.
 - PI, USDA McIntire-Stennis Act. “Private Land Strategies for Forest Conservation.” \$90,000, 09/2009 - 08/2011.
 - PI, College of Agricultural and Life Sciences, Graduate School, and Forest and Wildlife Ecology Department Award. 01/2009 – 06/2011.
 - PI, University of Wisconsin-Madison International Conference Travel Award. \$1500. 07/2009.
 - Conservation Easement Monitoring Grant from The Nature Conservancy (2005-2007) \$100,000. PI Adina Merenlender, PhD advisor.
 - Rodney Johnson/Katharine Ordway Stewardship Endowment (RJ KOSE) from The Nature Conservancy (2005-2008) \$50,000 PI Adina Merenlender, PhD advisor.
 - Graduate Departmental Fellowship (2003-2004) \$40,000 Awarded as PhD student.
 - Milton D. and Mary M. Miller Plant Science Award (2004) \$2,000 Awarded as PhD student.
 - Anonymous Research Donation (2007) \$2,500 Awarded as PhD student.
 - Departmental Travel Awards (2004, 2007) \$1,500 Awarded as PhD student.

Awards

- Selection for the National Academies Keck Futures Initiative on Ecosystem Services. Irvine, CA. (2011)
- National Science Foundation Graduate Research Fellowship Program (2005-2008)
- Environmental Protection Agency Science to Achieve Results (EPA-STAR)-Declined
- Society for Range Management, First Place, Graduate Student Oral Paper Competition (2007)

Journal Articles

*denotes work with graduate student

† denotes peer-reviewed publication, ‡ denotes faculty- or student-edited law review publication

20. Rissman, Adena R., Menka Bihari, Christopher Hamilton*, Christina Locke*, David Lowenstein*, Melissa Motew*, Jessica Price*, and Robert Smail*. 2013. Land management restrictions and options for change in perpetual conservation easements. *Environmental Management*. 52:277–288. †
19. Rissman, Adena R. 2013. Rethinking property rights: comparative analysis of conservation easements for wildlife conservation. *Environmental Conservation*. 40(3): 222–230. †
18. Gerber, Jean-David and Adena R. Rissman. 2012. Land conservation strategies: the dynamic relationship between acquisition and land use planning. *Environment and Planning A*. 44(8): 1836-1855. †
17. Rissman, Adena R. and Nathan F. Sayre. 2012. Conservation outcomes and social relations: a comparative study of private ranchland conservation easements. *Society and Natural Resources* 25(6): 523-538. †
16. Rittenhouse, Chadwick and Adena R. Rissman. 2012. Forest cover, carbon sequestration, and wildlife habitat: policy review and modeling of tradeoffs among land use change scenarios. *Environmental Science and Policy* 21: 94-105. †
15. Rittenhouse, Chadwick D., Eunice A. Padley, Karl J. Martin, and Adena R. Rissman. 2012. Past and potential future land cover change around Wisconsin's State Forests. *WDNR Research Report* 193. †
14. Locke, Christina M.* and Adena R. Rissman. 2012. Unexpected co-benefits: forest connectivity and property tax incentives. *Landscape and Urban Planning*. 104:418-425. †
13. Carpenter, Stephen R. and Adena R. Rissman. 2012. Scenarios and decisionmaking for complex environmental systems. In Bengston, David N., comp. 2012. Environmental futures research: experiences, approaches, and opportunities. Gen. Tech. Rep. NRS-P-107. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station.
12. Rissman, Adena R. 2011. Evaluating conservation effectiveness and adaptation in dynamic landscapes. *Law and Contemporary Problems*. 74: 145-173. ‡
11. Owley, Jessica and Adena R. Rissman. 2011. Distributed graduate seminars: an interdisciplinary approach to studying land conservation. *Pace Environmental Law Review Online Companion*. 2(1): 88-101. ‡
10. Rissman, Adena R. and Van Butsic.* 2011. Land trust defense and enforcement of conserved areas. *Conservation Letters*. 4(1): 31-37. (Online early in 2010.) †

9. Rissman, Adena R. 2010. Designing perpetual conservation agreements for land management. *Rangeland Ecology and Management*. 63: 167-175. †
8. Morris, Amy and Adena R. Rissman. 2009. Public access to information on private land conservation: tracking conservation easements. *Wisconsin Law Review*. 6: 1237-1282. †
7. Merenlender, Adina M., David Newburn, Sarah E. Reed, and Adena R. Rissman. 2009. The importance of incorporating threat for efficient targeting and evaluation of conservation investments. *Conservation Letters*. 2: 240-241. †
6. Byrd, Kristin B., Adena R. Rissman, and Adina M. Merenlender. 2009. Evaluating the capacity of conservation easements to safeguard ecosystem function in an oak woodland landscape under scenarios of future development. *Landscape and Urban Planning* 92: 106-116. †
5. Rissman, Adena R. and Adina M. Merenlender. 2008. The conservation contributions of conservation easements: analysis of the San Francisco Bay Area protected lands spatial database. *Ecology and Society* 13(1):40. †
4. Rissman, Adena R., Tosha Comendant, Lynn Lozier, Peter Kareiva, Joseph M. Kiesecker, M. Rebecca Shaw, and Adina M. Merenlender. 2007. Conservation easements: private use and 4. biodiversity protection. *Conservation Biology* 21(3): 709-718. †
3. Kiesecker, Joseph M., Gary Amaon, Tosha Comendant, Terra Grandmason, Elizabeth Gray, Christine Hall, Richard Hilsenbeck, Peter Kareiva, Lynn Lozier, Patrick Naehu, Adena R. Rissman, M. Rebecca Shaw, and Mark Zankel. 2007. Conservation easements in context: a quantitative analysis of their use by The Nature Conservancy. *Frontiers in Ecology and the Environment* 3(5): 125-130. †
2. Rissman, Adena R., Richard Reiner, Adina M. Merenlender. 2007. Monitoring natural resources on rangeland conservation easements. *Rangelands* 29(3): 21-26. †
1. Rissman, Adena R., Sarah E. Reed, Chuck Hughes, and Richard Reiner. 2006. Monitoring understory composition of blue oak woodlands on conservation easements. *In California's Oaks: Today's Challenges, Tomorrow's Opportunities*, USFS Pacific Northwest General Technical Report. †

Articles submitted:

- Rissman, Adena R., J. Owley and B. Thompson. Saving space for change: adapting conservation easements to climate and landscape change.
- Locke, Christina M.* and Adena R. Rissman. Factors influencing zoning ordinance adoption in rural and exurban townships.
- Gillon, Sean G., Eric Booth, and Adena R. Rissman. Shifting drivers and static baselines in environmental governance: challenges for proving and improving water quality outcomes.
- Rittenhouse, Chadwick and Adena R. Rissman. Climate change shortens frozen-season timber harvesting with implications for ecosystems and livelihoods.
- Rissman, Adena R. and R. Smail*. Policy networks and accountability pressures shape efforts to measure conservation results.

Handler, Stephen; Duveneck, Matthew J.; Iverson, Louis; Peters, Emily; Scheller, Robert; Wythers, Kirk; Brandt, Leslie; Butler, Patricia; Janowiak, Maria; Swanston, Christopher; Clark-Eagle, Amy; Cohen, Joshua G.; Corner, Rich; Reich, Peter B.; Baker, Tim; Chhin, Sophan; Clark, Eric; Fehringer, David; Fosgitt, Jon; Gries, James; Hall, Kim; Hall, Christine; Heyd, Robert; Hoving, Christopher L.; Ibanez, Ines; Kuhr, Don; Matthews, Stephen; Muladore, Jennifer; Nadelhoffer, Knute; Neumann, David; Peters, Matthew; Prasad, Anantha; Sands, Matt; Swaty, Randy; Wonch, Leiloni; Daley, Jad; Davenport, Mae; Emery, Marla R.; Johnson, Gary; Johnson, Lucinda; Neitzel, David; Rissman, Adena; Rittenhouse, Chadwick; Ziel, Robert. In press. Michigan Forest Ecosystem Vulnerability Assessment and Synthesis: A report from the Northwoods Climate Change Response Framework. Gen. Tech. Rep. NRS-XX. Newtown Square, PA; U.S. Department of Agriculture, Forest Service, Northern Research Station.

Articles and Reports

Rissman, Adena R. 2011. Conservation defense and enforcement in the land trust community. *Saving Land*. Land Trust Alliance. Winter 2011. Volume 30, Number 1.

Rissman, Adena R. and Dave Daniels. 2002. Northern Highland-American Legion State Forest Regional Analysis. Madison, WI: Wisconsin Department of Natural Resources.

Rissman, Adena R. 2001. Land use and water quality fact sheet for the Brule River State Forest Master Plan. Madison, WI: Wisconsin Department of Natural Resources.

Invited Presentations

Rissman, A., J. Owley, B. Thompson, and W. Weeks. When Permanence Requires Adaptation: Conservation Easements in Changing Climates and Landscapes. *Workshop for foundation funders of conservation easements*. September, 2013. Stanford, CA.

Rissman, A., J. Owley, B. Thompson, and W. Weeks. When Permanence Requires Adaptation: Conservation Easements in Changing Climates and Landscapes. *Workshop for federal government funders of conservation easements*. September, 2013. Washington, D.C.

Rissman, Adena R., S.R. Carpenter, C. Kucharik, E. Booth, J. Seifert. Challenges for Water Quality and Quantity in the Yahara Watershed: An Interdisciplinary Approach to Identifying Pathways to Resilience. *Dane County Land and Water Conservation Department*. September, 2013. Madison, WI.

Rissman, Adena R. Fixing the environment: the limits of science in adaptive management. *Weston Roundtable Series, UW-Madison Nelson Institute Center for Sustainability and the Global Env, Dept of Civil and Env Engineering, Office of Sustainability*. April, 2013. Madison, WI.

Rissman, Adena R. Adaptive management for conservation easements. *Land Trust Alliance Midwest Land Protection and Stewardship Peer to Peer Gathering*. April, 2013. Ronora Lodge, MI.

- Rissman, Adena R. Developing a framework to assess the water quality and quantity impacts of climate change, shifting land use, and urbanization in a Midwestern agricultural landscape. *National Science Foundation*. March, 2013. Washington, D.C.
- Rissman, Adena R. Funding, networks, and accounting for performance in efforts to enhance ecosystem services in the Yahara Watershed. *North American Lake Management Society*. November, 2012. Madison, WI.
- Rissman, Adena R. Impacts of changing winter weather on harvesting operations and snowmobiling in Wisconsin. *Wisconsin County Forest Association*. November, 2012.
- Rissman, Adena R. When permanence requires adaptation: conservation easements in changing landscapes and climates. *Webinar with the Land Trust Alliance Midwest Region*. September, 2012.
- Rissman, Adena R. and Chadwick Rittenhouse. Impacts of changing winter weather on Wisconsin forestry. *Wisconsin Department of Natural Resources*. June, 2012. Madison, WI.
- Rissman, Adena R. Climate, shifting land use, and urbanization: challenges for water quality and quantity. *Wisconsin Lakes Partnership Team*. November, 2011. Madison, WI.
- Rissman, Adena R. Climate, shifting land use, and urbanization: challenges for water quality and quantity. *Nelson Institute Community Environmental Forum*. October, 2011. Madison, WI.
- Rissman, Adena R. Evaluating conservation effectiveness and adaptation in dynamic landscapes: Linking Law, Social Science, and Ecology. *Baldy Center for Law and Social Policy at the University at Buffalo*. April, 2011. Buffalo, NY.
- Rissman, Adena R. Evaluating environmental policy outcomes: conservation easements, land management, and social relations. *Wisconsin Ecology Symposium*. October, 2010. Madison, WI.
- Rissman, Adena R. Linking social and ecological research on land management and conservation. *Wisconsin Department of Natural Resources Seminar*. August, 2010. Madison, WI.
- Rissman, Adena R. Biodiversity protection and private use on conservation easements. *Conservation Science in Practice Conference: Linking Local Science/Practice to Global Conservation*. The Nature Conservancy. November, 2006. Tucson, AZ.

Conference Presentations

- Rissman, Adena R. Governing public and private rights and responsibilities in multifunctional landscapes. In session Bridging the public-private land divide. *Ecological Society of America*. August, 2013. Minneapolis, MN.
- Rissman, Adena R. Accounting for success: monitoring and reporting networks in the Yahara Watershed, Wisconsin. *International Symposium on Society and Resources Management*. June, 2013. Estes Park, CO.

- Rissman, Adena R. Tracking efforts to enhance ecosystem services in the Yahara watershed: an action database. *North American Lake Management Society*. November, 2012. Madison, WI.
- Rissman, Adena R. Guidance on climate and conservation easements. *Land Trust Alliance Rally*. October, 2012. Salt Lake City, UT.
- Rissman, Adena R. Evidence-based conservation? Lessons from performance measurement and accountability in the hollow state. *North American Congress on Conservation Biology*. July, 2012. Oakland, CA.
- Rissman, Adena R. Conservation in a changing climate. *Land Trust Alliance Rally*. October, 2011. Milwaukee, WI.
- Rissman, Adena R. Evaluating the effectiveness and adaptability of conservation easements in dynamic landscapes. *Environmental Evaluators Network*. June, 2011. Washington, D.C.
- Rissman, Adena R. Social and legal dimensions of private land conservation in a changing climate: results from a six-university distributed graduate seminar. *International Symposium on Society and Resource Management*. June, 2011. Madison, WI.
- Rissman, Adena R. Tensions among adaptation, permanence, and enforceability in private land conservation. *Resilience Alliance*. March, 2011. Tempe, AZ.
- Rissman, Adena R. Conservation and climate change. *Public Interest Environmental Law Conference*. February, 2010. Eugene, OR.
- Rissman, Adena R. Landowner – easement holder relations: regulation, collaboration, and learning. *Rural Sociological Society*. July, 2009. Madison, WI.
- Rissman, Adena R. Conservation social relations: collaboration, regulation, and conservation outcomes. *International Symposium on Society and Resource Management*. July, 2009. Vienna, Austria.
- Rissman, Adena R. Trends and insights from land conservation research. *Midwest Land Conservation Conference*. March 2009. Madison, WI.
- Rissman, Adena R. and Rich Reiner. Drafting conservation easements for ecological protection on ranches. *Land Trust Alliance Rally*. September, 2008. Pittsburgh, PA.
- Rissman, Adena R. Conservation easement protections for managing and restoring working landscapes. *Ecological Society of America*. August, 2007. San Jose, CA.
- Rissman, Adena R. Assessing conservation outcomes: conservation easements in the context of development threat and environmental planning. Organized Session, *Association of American Geographers*. April, 2007. San Francisco, CA.
- Rissman, Adena R. Natural resource monitoring on rangeland conservation easements. *Society for Range Management*, February, 2007. Reno, NV.

- Rissman, Adena R. Ecological monitoring on conservation easements in California oak woodlands and grasslands. *Bay Area Society for Conservation Biology Symposium*, January, 2007. Berkeley, CA.
- Rissman, Adena R. Frameworks for measuring conservation effectiveness. *Land Conservation Lunch Seminar*. November, 2006. Berkeley, CA.
- Rissman, Adena R. Monitoring understory composition of blue oak woodlands on conservation easements. *Sixth Symposium on Oak Woodlands, California's Oaks: Today's Challenges, Tomorrow's Opportunities*, October, 2006. Rohnert Park, CA.
- Rissman, Adena R. Biodiversity protection and private uses on conservation easements. *Society for Conservation Biology*. June, 2006. San Jose, CA.
- Rissman, Adena R. Long term ecological monitoring of conservation easements in the Lassen Foothills. *Lassen Foothills Science Conference*. March, 2006. Red Bluff, CA.
- Rissman, Adena R. Easement purposes and permitted uses. *Land Trust Alliance Rally*. October, 2005. Madison, WI.
- Rissman, Adena R. Biodiversity protection and private uses on conservation easements. *Bay Area Society for Conservation Biology Symposium*. February, 2006. San Francisco, CA.
- Rissman, Adena R. What are we conserving, for whom, and at what cost? *Land Trust Alliance Rally*. October, 2004. Providence, RI.
- Rissman, Adena R. The conservation implications of land trusts and conservation easements. *Who Owns America IV*, June, 2004. Madison, WI.

Reviewer for:

Conservation Biology, Conservation Letters, Ecology and Society, Human Ecology Review, Environmental Management, Journal of Environmental Management, Journal of Soil and Water Conservation, Journal of Wildlife Management, Land, Landscape and Urban Planning, Nature Communications, PLOS ONE, Rangeland Ecology and Management, Society and Natural Resources

Current Memberships

Society for Conservation Biology
 Society and Natural Resources
 Association of American Geographers

Service

Search Committee, Forest Economics and Risk Management position, Department of Forest and Wildlife Ecology, 2013.

Smith Fellows Postdoctoral Researcher Awards, semifinalist review panel. December 2013.

NSF Hydrological Sciences, panel reviewer. October 2013.

2012 Society for Conservation Biology Conference abstracts reviewer. 2011-2012.

Coordinator of social-natural research seminar in the FWE Department through People, Institutions, and Ecosystems (PIE). 2009-present.

Scientific Advisory Committee, International Symposium on Society and Resource Management Conference, Madison, WI. 2010-2011.

Executive Committee, Land Tenure Center, University of Wisconsin-Madison. 2010-2011.

Panel Reviewer for the USDA National Needs Fellowships Grant Panel. July 2010.

Panel Reviewer for the USDA Managed Ecosystems Grant Panel. August 2009, Washington D.C.

Berkeley Chapter of the Society for Conservation Biology, Co-President, 2004-2005