

LARS A. BRUDVIG

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APPOINTMENTS:

2010-present **Assistant Professor.** Michigan State University.

PROFESSIONAL PREPARATION:

2007-09 **Postdoctoral Associate.** The Corridor Project, Washington University in St. Louis, and University of Florida.

Advisors: Ellen Damschen, Nick Haddad, Doug Levey, Josh Tewksbury

2007 **Ph.D.** Ecology and Evolutionary Biology, Iowa State University.

Advisor: Heidi Asbjornsen.

Preparing Future Faculty program Associate.

2001 **B.A. (cum laude).** Biology, Carleton College, Northfield, MN.

Minor: Environmental Studies.

PUBLICATIONS (Mentored authors: students, postdocs):

In press Herrmann, J.D., T.A. Carlo, **L.A. Brudvig**, E.I. Damschen, N.M. Haddad, D.J. Levey, J.L. Orrock, and J.J. Tewksbury. Connectivity from a different perspective: comparing seed dispersal kernels in connected vs. unfragmented landscapes. *Ecology*.

In press Levey, D.J., T.T. Caughlin, **L.A. Brudvig**, N.M. Haddad, E.I. Damschen, J.J. Tewksbury, and D.M. Evans. Disentangling fragmentation effects on herbivory in understory plants of longleaf pine savanna. *Ecology*.

In press Turley, N.E., and **L.A. Brudvig**. Agricultural land-use history causes persistent loss of plant phylogenetic diversity. *Ecology*.

2016 **Brudvig, L.A.** Interpreting the effects of landscape connectivity on community diversity. *Journal of Vegetation Science* 27:4-5.
Invited commentary.

2015 Grman, E., T. Bassett, C. Zirbel, and **L.A. Brudvig**. Dispersal and establishment filters influence the assembly of restored prairie plant communities. *Restoration Ecology* 23:892-899.

- 2015 **Brudvig, L.A.**, N.M. Haddad, D.J. Levey, J.J. Tewksbury, and E.I. Damschen. The influence of habitat fragmentation on multiple plant-animal interactions and plant reproduction. *Ecology* 96:2669-2678.
Featured on journal cover.
- 2015 Bizzari, L.E., C.D. Collins, **L.A. Brudvig**, and E.I. Damschen. Historical agriculture and contemporary fire frequency alter soil properties in longleaf pine woodlands. *Forest Ecology and Management* 349:45-54.
- 2015 Grman, E., J.L. Orrock, C.W. Habeck, J.A. Ledvina, and **L.A. Brudvig**. Altered beta diversity in post-agricultural woodlands: two hypotheses and the role of scale. *Ecography* 38:614-621.
- 2015 Haddad, N.M. **L.A. Brudvig**, J. Clobert, K.F. Davies, A. Gonzalez, R.D. Holt, T.E. Lovejoy, J.E. Sexton, M.P. Austin, C.D. Collins, W.M. Cook, E.I. Damschen, R.M. Ewers, B.L. Foster, C. Jenkins, A. King, W.F. Laurance, D.J. Levey, C.R. Margules, B.A. Melbourne, A.O. Nicholls, J.L. Orrock, D. Song, and J.R. Townsend. Habitat fragmentation and its lasting impact on Earth's ecosystems. *Science Advances* Vol. 1 no.2 e1500052.
Coverage: The New Yorker, NSF.gov, Scientific American
- 2015 Mattingly, W.B., J.L. Orrock, C.D. Collins, **L.A. Brudvig**, E.I. Damschen, J.W. Veldman, and J.L. Walker. Historical agriculture alters the effects of fire on understory plant beta diversity. *Oecologia* 177:507-518.
- 2015 Orrock, J.L., E.T. Borer, **L.A. Brudvig**, J. Firn, A.S. MacDougall, B.A. Melbourne, L.H. Yang, D.V. Baker, A. Bar-Massada, , M.J. Crawley, E.I. Damschen, K.F. Davies, D.S. Gruner, A.D. Kay, E. Lind, R.L. McCulley, and E.W. Seabloom. A continent-wide study reveals clear relationships between regional abiotic conditions and post-dispersal seed predation. *Journal of Biogeography* 42:662-670.
- 2015 Seabloom, E., ... **L.A. Brudvig**...et al. (Brudvig 19/66 authors). Plant species' origin predicts dominance and response to nutrient enrichment and herbivores in global grasslands. *Nature Communications* 6:7710.
- 2014 Borer, E.T., ...**L.A. Brudvig**...et al. (Brudvig 14/55 authors). Herbivores and nutrients control grassland plant diversity via light limitation. *Nature* 508:517-520.
Coverage: NSF.gov; ScienceDaily.
- 2014 **Brudvig, L.A.**, J.L. Orrock, E.I. Damschen, C.D. Collins, P.G. Hahn, W.B. Mattingly, J.W. Veldman, and J.L. Walker. Land-use history and contemporary management inform an ecological reference model for longleaf pine woodland understory plant communities. *PLoS ONE* 9(1):e86604.

- 2014 Damschen, E.I., D.V. Baker, G. Bohrer, R. Nathan, J.L. Orrock, J. R. Turner, **L.A. Brudvig**, N.M. Haddad, D.J. Levey, and J.J. Tewksbury. How fragmentation and corridors affects wind dynamics and seed dispersal in open habitats. *Proceedings of the National Academy of Sciences*. 111:3484-3489.
Coverage: NSF.gov, Nature News and Views, American Museum of Natural History
- 2014 Grman, E. and **L.A. Brudvig**. Beta diversity among prairie restorations increases with species pool size, but not through enhanced species sorting. *Journal of Ecology* 102:1017-1024.
- 2014 Grman, E., **L.A. Brudvig**, and T. Bassett. A prairie plant community dataset for addressing questions in community assembly and restoration. *Ecology* 95:2363.
- 2014 Haddad, N.M., **L.A. Brudvig**, E.I. Damschen, D.M. Evans, B.L. Johnson, D.J. Levey, J.L. Orrock, L.L. Sullivan, J.J. Tewksbury, S.A. Wagner, and A.J. Weldon. Potential negative ecological effects of corridors. *Conservation Biology* 28:1178-1187.
- 2014 Lettow, M.C., **L.A. Brudvig**, C.A. Bahlai, and D.A. Landis. Oak savanna management strategies and their differential effects on vegetative structure, understory light, and flowering forbs. *Forest Ecology and Management* 329:89-98.
- 2014 Resasco, J., N.M. Haddad, J.L. Orrock, D. Shoemaker, **L.A. Brudvig**, E.I. Damschen, J.J. Tewksbury, and D.J. Levey. Landscape corridors can increase invasion by an exotic species and reduce diversity of native species. *Ecology* 95:2033-2039.
Coverage: NSF.gov, ScienceDaily, Conservation Magazine
- 2014 Veldman, J.W., **L.A. Brudvig**, E.I. Damschen, J.L. Orrock, W.B. Mattingly, and J.L. Walker. Fire frequency, agricultural history, and the multivariate control of pine savanna understory plant diversity. *Journal of Vegetation Science* 25:1438-1449.
- 2013 **Brudvig, L.A.**, E. Grman, C.W. Habeck, J.L. Orrock, and J.A. Ledvina. Strong legacy of agricultural land use on soils and plant communities in longleaf pine woodlands. *Forest Ecology and Management* 310:944-955.
- 2013 Grman, E., T. Bassett, and **L.A. Brudvig**. Confronting contingency in restoration: management and site history determine outcomes of assembling prairies, but site characteristics and landscape context have little effect. *Journal of Applied Ecology* 50:1234-1243.
Selected as Editor's Choice.

- 2013 Seabloom, E., ... **L.A. Brudvig**...et al. (Brudvig 20/73 authors). Predicting invasion in grassland ecosystems: Is exotic dominance the real embarrassment of richness? *Global Change Biology* 19:3677-3687.
- 2013 Veldman, J.W., W.B. Mattingly, and **L.A. Brudvig**. Understory plant communities and the functional distinction between savanna trees, forest trees, and pines. *Ecology* 94:424-434.
- 2012 **Brudvig, L.A., S.A. Wagner,** and E.I. Damschen. Corridors promote fire via connectivity and edge effects. *Ecological Applications* 22:937-946.
- 2012 Damschen, E.I. and **L.A. Brudvig**. Landscape connectivity strengthens local-regional richness relationships in successional plant communities. *Ecology* 93:704-710.
- 2011 **Brudvig, L.A.** The restoration of biodiversity: where has research been and where does it need to go? *American Journal of Botany* 98:549-558. (Invited) *Recommended by Faculty of 1000*.
- 2011 **Brudvig, L.A.** and E.I. Damschen. Land-use history, historical connectivity, and land management interact to determine longleaf pine woodland understory richness and composition. *Ecography* 34:257-266.
- 2011 **Brudvig, L.A.,** H.M. Blunck, H. Asbjornsen, V.S. Mateos-Remigio, S.A. Wagner, and J.A. Randall. Influences of woody encroachment and restoration thinning on overstory savanna oak tree growth rates. *Forest Ecology and Management* 262:1409-1416.
- 2011 **Brudvig, L.A.,** C.M. Mabry, and L.M. Mottl. Dispersal, not understory light competition, limits restoration of Iowa woodland understory herbs. *Restoration Ecology* 19(101):24-31.
- 2011 Craig, M.T., J.L. Orrock, and **L.A. Brudvig**. Edge-mediated patterns of seed removal in experimentally connected and fragmented landscapes. *Landscape Ecology* 26:1373-1381.
- 2011 Sullivan, L.L., B.L. Johnson, **L.A. Brudvig,** and N.M. Haddad. Can dispersal mode predict corridor effects on plant parasites? *Ecology* 92:1559-1564.
- 2010 **Brudvig, L.A.** Woody encroachment removal from Midwestern oak savannas alters understory diversity across space and time. *Restoration Ecology* 18:74-84.
- 2010 Mabry, C.M., **L.A. Brudvig,** and R.C. Atwell. The confluence of landscape matrix and site-level management in determining Midwestern oak savanna and woodland breeding bird communities. *Forest Ecology and Management*. 260:42-51.

- 2009 **Brudvig, L.A.**, E.I. Damschen, J.J. Tewksbury, N.M. Haddad, and D.J. Levey. Landscape connectivity promotes biodiversity spillover into non-target habitats. *Proceedings of the National Academy of Sciences* 106:9328-9332. *Coverage: ScientificAmerican.com, NSF.gov.*
- 2009 **Brudvig, L.A.** and H. Asbjornsen. The removal of woody encroachment restores biophysical gradients in Midwestern oak savannas. *Journal of Applied Ecology* 46:231-240.
- 2009 **Brudvig, L.A.** and H. Asbjornsen. Dynamics and determinants of *Quercus alba* seedling success following savanna encroachment and restoration. *Forest Ecology and Management* 257:876-884.
- 2008 **Brudvig, L.A.** Large scale experimentation and oak regeneration. *Forest Ecology and Management* 255:3017-3018. *Editor's Introduction to Special Issue; Featured on journal cover.*
- 2008 **Brudvig, L.A.** and H. Asbjornsen. Patterns of oak regeneration in a Midwestern savanna restoration experiment. *Forest Ecology and Management* 255:3019-3025.
- 2008 **Brudvig, L.A.** and C.M. Mabry. Trait-based filtering of the regional species pool to guide understory plant reintroductions in Midwestern oak savannas, USA. *Restoration Ecology* 16:290-304.
- 2008 Damschen, E.I., **L.A. Brudvig**, N.M. Haddad, D.J. Levey, J.L. Orrock, and J.J. Tewksbury (contributions equal after first author). The movement ecology and dynamics of plant communities in fragmented landscapes. *Proceedings of the National Academy of Sciences* 105:19078-19083. *Coverage: AudubonMagazine.com; Featured on journal cover.*
- 2007 **Brudvig, L.A.** and H. Asbjornsen. Stand structure, composition and regeneration dynamics following removal of encroaching woody vegetation from Midwestern oak savannas. *Forest Ecology and Management* 244:112-121.
- 2007 **Brudvig, L.A.**, C.M. Mabry, J.R. Miller, and T.A. Walker. Evaluation of central North American prairie management based on species diversity, life-form, and individual species metrics. *Conservation Biology* 21:864-874.
- 2007 Asbjornsen, H., **L.A. Brudvig**, and M.D. Tomer. Ecohydrological implications of removing encroaching woody vegetation from a Midwestern bur oak savanna. *Ecological Restoration* 25:58-59.
- 2007 Asbjornsen, H., M.D. Tomer, M. Gomez-Cardenas, **L.A. Brudvig**, C.M. Greenan, and K. Schilling. Tree transpiration in a Midwestern bur oak

savanna after elm encroachment and restoration thinning. *Forest Ecology and Management* 247:209-219.

- 2006 **Brudvig, L.A.** and C.W. Evans. Competitive interactions between *Quercus alba* seedlings and native and exotic shrubs. *Northeastern Naturalist* 13:259-268.
- 2005 Asbjornsen, H., **L.A. Brudvig**, C.M. Mabry, C.W. Evans, and H.M. Karnitz. Defining reference information for restoring ecologically rare tallgrass oak savannas in the Midwestern United States. *Journal of Forestry* 103:345-350.
- 2005 **Brudvig, L.A.** and H. Asbjornsen. Oak regeneration before and after initial restoration efforts in a tallgrass oak savanna. *American Midland Naturalist* 153:180-186.
- 2003 **Brudvig, L.** and P. F. Quintana-Ascencio. Herbivory and postgrazing response in *Hypericum cumulicola*. *Florida Scientist* 66:99-108.

TECHNICAL PAPERS, REPORTS, AND POPULAR ARTICLES (* INDICATES PEER REVIEWED):

- 2014 * **Brudvig, L.A.** and H. Asbjornsen. The roles of fire, overstory thinning, and understory seeding for the restoration of Iowa oak savannas. Pages 139-144 in Potter, K.M. and B.L. Conkling, eds. *Forest health monitoring: national status, trends, and analysis 2012*. General Technical Report SRS-198. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station.
- 2013 * Asbjornsen, H. and **L.A. Brudvig**. Oak savanna restoration in central Iowa: Assessing indicators of forest health for ecological monitoring. Pages 125-132 in Potter, K.M. and B.L. Conkling, eds. *Forest health monitoring: national status, trends, and analysis 2011*. General Technical Report SRS-185. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station.
- 2011 Habeck, C.W., J.A. Ledvina, **L.A. Brudvig**, and J.L. Orrock. Restoration and expansion of longleaf pine savanna understory communities: Establishment report and pre-treatment data. Report to the USDA Forest Service-Savannah River. 49 p.
- 2007 **Brudvig, L.A.** Experimental restoration of an oak savanna. *Iowa Native Plant Society Newsletter*. Spring Issue.
Featured on cover

GRANTS:

Active:

- 2016-2021 National Science Foundation. CAREER: Resolving drivers of variation in grassland community assembly and restoration. \$653,460. Sole PI.
- 2015-2020 USDA Forest Service. The restoration of longleaf pine fire savanna fragments: Promoting student diversity and evaluating effects of restoration on groundlayer plants, pollinating insects, and pollination. \$538,587 (\$438,489 to Brudvig). PI (with N. Turley, R. Isaacs, and J. Gibbs as co-PI's).
- 2015-2016 National Science Foundation. Collaborative Research: RAPID: Linking population and community ecology in restored communities: Interactions between species diversity and genetic diversity. \$137,766 (\$105,297 to MSU). co-PI (PI: J. Lau; additional PI: E. Grman).
REU supplement: 2016, \$8500.
- 2014-2018 National Science Foundation. Collaborative Research: LTREB: Understanding the strength and duration of connectivity effects on community diversity. \$449,918 (\$113,873 to Brudvig). PI (with E.I. Damschen and N.M. Haddad).
REU supplements: 2015, \$6850; 2016, \$6850.
- 2014-2016 Project GREEN. Building pollinator-supportive landscapes for Michigan's diverse agriculture. \$79,100. Co-PI (PI: D. Landis; additional co-PI: R. Isaacs).

Completed (>\$10k):

- 2011-2016 USDA Forest Service. The restoration of longleaf pine fire savanna fragments and their use as source populations: A proposal to integrate science, landscape restoration and diversity goals. \$517,716. Sole PI.
- 2011-2014 National Science Foundation. Collaborative research: Landscape connectivity and the movement ecology of plant and animal communities. \$675,000 (\$131,193 to Brudvig). PI (with T.A. Carlo, E.I. Damschen, N.M. Haddad, D.J. Levey, J.L. Orrock, and J.J. Tewksbury).
- 2009-2014 DOD Strategic Environmental Research Development Program. Developing and testing a robust, multi-scale framework for the recovery of longleaf pine communities. \$1,984,820. Co-PI (PI's: J.L. Orrock and E.I. Damschen).
- 2008-2011 USDA Forest Service. Integration of savanna restoration processes at various scales to create a comprehensive strategy for landscape restoration. \$299,510. Co-PI (PI's: E.I. Damschen and J.L. Orrock).
- 2007-2009 USDA Forest Service Environmental Monitoring Grant. Assessing indicator sensitivity for monitoring the effects of fire and species reintroductions on soils and plant communities during intensive restoration of oak savannas in Central Iowa. \$79,421. PI.

AWARDS AND FELLOWSHIPS:

2016-21	NSF CAREER Award.
2016	Michigan State University Teacher-Scholar Award.
2014	College of Natural Science Teaching Prize, Michigan State University.
2008	USDA Forest Service Regional Forester's Award: Multicultural Organization.
2007	Iowa State University Graduate Research Excellence Award.
2006	Iowa State University Graduate Teaching Excellence Award.
2006	William Clark Graduate Student Award in EEB, Iowa State University.
2002-03	Ecology and Evolutionary Biology Graduate Fellow, Iowa State University.
2002-03	PACE (Premium for Academic Excellence) Award, Iowa State University.

TEACHING EXPERIENCE:

Courses taught:

2015	Organisms and Populations (BS 162), Michigan State University. 114 students.
2014	Restoration Ecology (FW 443), Michigan State University. 30 students.
2013	Organisms and Populations (BS 162), Michigan State University. 43 students.
2012	Restoration Ecology (FW 443), Michigan State University. 30 students.
2011	Organisms and Populations (BS 110), Michigan State University. 180 students.
2005	Fire Ecology and Management (NREM 390), Iowa State University.
2004	Fire Ecology and Management (NREM 390), Iowa State University.

Guest lecturer:

2013	Restoration Ecology (FW 443; 1 lecture), Michigan State University.
2013	Plant Biology Senior Seminar (PLB 499; 1 lecture), Michigan State University.
2011	Restoration Ecology (FW 443; 2 lectures), Michigan State University.
2010	Plant Biology Senior Seminar (PLB 499; 1 lecture), Michigan State University.
2006	Fire Ecology and Management (NREM 390; 4 lectures), Iowa State University.

Workshops/working groups:

2005	Project LE/ARN working group. Iowa State University.
2005	Project LE/ARN workshop on teaching/learning techniques in student-centered classrooms. 9 – 12 May. Iowa State University.

MENTORING AND TRAINING:

Postdoctoral Associates:

- 2015-present Jonathan Bauer. Effects of prairie restoration on plant communities, soil microbes, and ecosystem services.
- 2014-present Nash Turley. Restoration of longleaf pine fragments and use as source populations.
- 2011-2014 Emily Grman. Plant community assembly during tallgrass prairie restoration. Currently: Assistant Professor; Dept. Biology, Eastern Michigan U.
- 2011-2014 John Herrmann. Habitat fragmentation and connectivity effects on seed dispersal and arthropod movement. Currently: Postdoc at Kiel University, Germany.
- 2010-2014 Joe Veldman. Longleaf pine community assembly and fire ecology. Currently: Postdoc at Iowa State University.
- 2010-2012 Chris Habeck. Restoration of longleaf pine fragments and use as population source populations. Currently: Assistant Professor; Dept. Biology, Kutztown University.
- 2009-2012 Brett Mattingly. Longleaf pine community assembly and invasion ecology. Currently: Assistant Professor; Dept. Biology, E. Connecticut State U.

Graduate Students:

- 2015-present. Christopher Warneke. Effects of corridors on plant population spread. MSU Plant Sciences Fellowship.
- 2012-present. Anna Groves. Historical contingency of community assembly in restoration. NSF Graduate Research Fellowship; MSU College of Natural Science Fellowship.
- 2012-present. Chad Zirbel. Functional trait-based community assembly and its consequences for ecosystem function during prairie restoration. NSF Graduate Research Fellowship.
- M.S., 2015. Dani Fegan. The effects of agricultural legacies and restoration on seed rain in longleaf pine woodlands. NSF GK-12 Fellowship; MSU University Enrichment Fellowship.
- 2012-15 (No degree awarded) Daniel Brickley. NSF Graduate Research Fellowship; MSU University Distinguished Fellowship.

Undergraduates conducting independent research:

- 2015-present Meg Kargul. Effects of corridors on seedling herbivory, growth, and survival of *Carphephorus bellidifolius*.
- 2015-present Maddy Cleary. Effects of corridors on the dioecious herb *Nolina georgiana*.
- 2014-15 Carrie Barker. Agricultural soil legacy effects on longleaf pine understory herbs.

- 2013-14 Undergraduate Bessey Award for outstanding senior in Plant Biology. Samantha Stockwell. Effects of fen and oak savanna restoration on satyrid populations.
- 2013 Alisha Fischer. Effects of agricultural legacies and restoration on longleaf pine community seed rain.
- 2010-11 Undergraduate Bessey Award for outstanding senior in Plant Biology. Westley Wallace. Patch size and neighborhood effects on parasite incidence in *Solidago altissima*.
- 2009-10 Melissa Burt. Pollination biology of longleaf pine understory herbs.
- 2009 Leslie Peck. Effects of corridors on herbivory of a plant community.
- 2009 Michael Craig. Seed predation as a mechanism for biodiversity spillover.
- 2008-10 Marilena N nez. Effects of experimental connectivity of wetland mesocosms on community assembly and diversity.
- 2008-09 Stephanie Wagner. How corridors promote fire.
- 2008-09 Lauren Sullivan. Can dispersal mode predict corridor effects on plant parasites?
- 2007-08 Elizabeth Long. Seed rain in eight experimentally fragmented landscapes.
- 2007-08 Nash Turley. Corridor effects on herbivory and plant fitness.
- 2007 Brenda Johnson. Effects of connectivity and edges on plant fungal pathogens.
- 2007 Julian Resasco. Effects of corridors and edges on native and exotic ant distributions.
- 2006 Adam Tow. Three dimensional animation of fire in the wildland-urban interface and consequences for homeowners.

INVITED PRESENTATIONS:

- 2016 Midwest/Great Lakes Society of Ecological Restoration. 1 April.
- 2015 US Forest Service Regional Office, Atlanta. 16 June.
- 2015 Burning Issues prescribed fire symposium. 13 January
- 2014 University of Wisconsin-Madison. 20 November.
- 2014 Central Michigan University. 3 April.
- 2013 Indiana University. 20 September.
- 2013 University of Illinois. 6 December.
- 2013 Ecological Society of America. 9 August.
- 2011 Michigan State University. 8 February.
- 2011 Science Practice and Art of Restoring Native Ecosystems. 21 January.
- 2010 Hope College. 12 November.
- 2010 Iowa State University. 8 October.
- 2010 Ecological Society of America Annual Meeting. 3 August.
- 2010 Kellogg Biological Station, Michigan State University. 26 February.
- 2009 USDA Forest Service-Savannah River. 9 December.
- 2009 Carleton College. 28 September.
- 2009 Michigan State University. 10 February.

2008 University of Florida. 21 October.
 2008 University of California-Berkeley. 20 March.
 2008 North Carolina State University. 13 March.
 2008 Washington University. 6 March.
 2007 North Carolina State University. 6 December.

CONTRIBUTED PRESENTATIONS:

Ecological Society of America (2004, 2006 – 2015)
 World Conference on Ecological Restoration (2005, 2013)
 Science Practice and Art of Restoring Native Ecosystems (2011 – 2013, 2016)
 SERDP Partners in Environmental Technology Technical Symposium & Workshop (2010, 2011)
 Southeastern Ecology and Evolution Conference (2010)
 USDA Forest Service Forest Health Monitoring Working Group (2009)
 Society for Conservation Biology (2008, 2010)
 Neal Smith National Wildlife Refuge Research Symposium (2006)
 Iowa State University Ecology and Evolutionary Biology Spring Symposium (2004)
 Society of American Foresters (2003)
 International Conference on the Ecology and Management of Alien Plant Invasions (2003)
 Midwest Ecology and Evolution Conference (2003)

SERVICE:

2015-present Graduate Steering Committee. Dept. Plant Biology, MSU.
 2014-present Biology Initiative (BioSci 162). College of Natural Sciences, MSU.
 2011-present Undergraduate Committee. Dept. Plant Biology, MSU.
 2014-15 Faculty Search Committee. Dept. Plant Biology, MSU.
 2014-15 Departmental Advisory Committee. Dept. Plant Biology, MSU.
 2013-14 Biology Initiative (BioSci 161). College of Natural Sciences, MSU
 2013-14 Faculty Search Committee. Dept. Plant Biology, MSU.
 2012-13 Faculty Search Committee. Dept. Plant Biology, MSU.
 2010-12 Graduate Committee. Dept. Plant Biology, MSU.
 2007-08 Guest Editor. Forest Ecology and Management special issue on Large Scale
 Experimentation and Oak Regeneration. 2008 Volume 255, Issue 7.
 2006 Symposium Organizer. Society of American Foresters Annual Meeting,
 Pittsburgh, PA. "Large Scale Experimentation and Oak Regeneration."
 2005-06 Departmental Seminar Series Committee. NREM, ISU.

Journal Referee: *Ambio*, *American Midland Naturalist*, *Applied Vegetation Science*, *Basic and Applied Ecology*, *Biological Conservation*, *Biological Invasions*, *BioScience*, *Conservation Letters*, *Ecography*, *Ecological Applications*, *Ecology*, *Ecology Letters*, *Ecosphere*, *Ecosystems*, *Environmental Management*, *Forest Ecology and Management*, *Forests*, *Global Ecology and Biogeography*, *International Journal of Forestry Research*, *Journal of Applied Ecology*, *Journal of Ecology*, *Journal of Environmental Management*, *Journal of the Torrey Botanical Society*,

Journal of Tropical Ecology, Journal of Vegetation Science, Landscape Ecology, Natural Areas Journal, Oikos, Plant Ecology, PLOS One, Restoration Ecology, Science, Southeastern Naturalist.

Grant Proposal Referee: National Geographic Society, National Science Foundation, Sigma Delta Epsilon/Graduate Women in Science, University of Missouri.

OUTREACH:

2016 Field day - restoration at MacCready Reserve (~15 individuals).
2015 Field day - restoration at MacCready Reserve (~25 individuals).
2012 Field day – restoration at MacCready Reserve (~60 MSU undergrads; organizer)
2007-09 Savannah River Site Forest Service K – 12 STEP program.
2006 NREM class field trip leader: Saylorville Lake oak savannas. 2 November.
2006 Garlic mustard removal: Ames residents, YMCA woods. 3 June. (Organizer).
2003 Savanna brush removal: Des Moines elementary students, Saylorville Lake. 5 March. (Organizer).