

## RAELENE M. CRANDALL

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### EDUCATION

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- 2011 Louisiana State University, Baton Rouge, LA  
Ph.D. in Biological Sciences; *Advisor*: William J. Platt  
*Dissertation*: The ecology of congeneric resprouters and reseeders (*Hypericum* spp.) along fire-frequented pine savanna ecoclines
- 2003 Oklahoma State University, Stillwater, OK  
M.S. in Botany; *Advisor*: Ronald J. Tyrl  
*Thesis*: Vegetation of the Pushmataha Wildlife Management Area, Pushmataha County, Oklahoma
- 1997 Butler University, Indianapolis, IN  
B.S. in Biology and Chemistry

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### PROFESSIONAL EXPERIENCE

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- 2016-present Assistant Professor, School of Forest Resources and Conservation, University of Florida, Gainesville, FL
- 2015-2016 Postdoctoral Research Fellow, Biology Department, University of Missouri, St. Louis, MO; *Advisor*: Tiffany M. Knight
- 2011-2015 Postdoctoral Research Fellow, Department of Biology and Tyson Research Center, Washington University, St. Louis, MO; *Advisor*: Tiffany M. Knight
- 2008-2011 Teaching Assistant, Department of Biological Sciences, Louisiana State University, Baton Rouge, LA
- 2006-2008 Dendroecology Research Assistant, Department of Biological Sciences, Louisiana State University, Baton Rouge, LA; *Supervisor*: Jean M. Huffman
- 2003-2008 Teaching Assistant, Department of Biological Sciences, Louisiana State University, Baton Rouge, LA
- 2003 Herbarium Curatorial Assistant, Department of Biological Sciences, Louisiana State University, Baton Rouge, LA; *Supervisor*: Lowell E. Urbatsch
- 2000-2003 Teaching Assistant, Botany Department, Oklahoma State University, Baton Rouge, LA

2001-2002 Forestry Research Assistant, Department of Forestry, Oklahoma State University, Stillwater, OK; *Supervisor*: Ronald E. Masters

1999-2001 Environmental Chemist, Accurate Labs and Training, Inc., Stillwater, OK

1999 Forestry Technician and Wildland Firefighter, U.S. Forest Service, Rifle, CO

1999 Wetland Ecologist, Rocky Mountain Native Plant Co., Rifle, CO

1997-1998 Laboratory Technician, ALK-ABELLO, Inc., Austin, TX

1997 Field Botanist, Missouri Department of Conservation, Ellington, MO

1995-1997 Herbarium Assistant, Friesner Herbarium, Butler University, Indianapolis, IN

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## PUBLICATIONS

\*Undergraduate

- Crandall, R.M. and T.M. Knight. Role of multiple invasion mechanisms and their interaction in regulating the population dynamics of the exotic tree *Ailanthus altissima*. *In revision*.
- \*Guthrie, S., R.M. Crandall, and T.M. Knight. 2016. Fire indirectly benefits fitness in two invasive species. *Biological Invasions*. 18: 1265-1273
- Crandall, R.M. and T.M. Knight. 2015. Positive frequency dependence undermines the success of restoration using historical disturbance regimes. *Ecology Letters* 18:883-891.
- Myers, J.A., J.M. Chase, R.M. Crandall, and I. Jiménez. 2015. Disturbance alters forest beta-diversity but not the relative importance of community assembly mechanisms. *Journal of Ecology* 103:1291-1299.
- Crandall, R.M. and W.J. Platt. 2012. Habitat and fire heterogeneity explain the co-occurrence of congeneric resprouter and reseeder *Hypericum* spp. along a Florida pine savanna ecocline. *Plant Ecology* 213:1643-54.
- Crandall, R.M. and R. J. Tyrl. 2006. Vascular flora of the Pushmataha Wildlife Management Area, Pushmataha County, Oklahoma. *Castanea* 71:65-79.
- Crandall, R.M., C.R. Hayes, and E.N. Ackland. 2003. Application of the intermediate disturbance hypothesis to flooding. *Community Ecology* 4:225-232.
- Crandall, R.M., R.E. Masters, and R.J. Tyrl. 2003. Status of the wildlife habitats in the Pushmataha Forest Habitat Research Area and the Pushmataha Wildlife Management Area. Federal Aid Project W-150-R.
- Masters, R.E., J. Waymire, J.A. Howard, and R.M. Crandall. 2002. Progress Report: Forest Stewardship Grant, Forest Wildlife Assistance, 2000-2001. Oklahoma State University, Stillwater, OK. 36 p. Available from: OSU Department of Forestry.
- Crandall, R.M. and R.W. Dolan. 1997. Floristic Investigation of Crooked Creek Community Juan Soloman Park, Indianapolis, IN. *Proceedings of the Indiana Academy of Sciences* 106:1-23.

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## PUBLICATIONS IN PREPARATION

- Crandall, R.M. and W.J. Platt. Reseeding and resprouting woody *Hypericum* species respond differently to disturbances in coastal Florida pine savannas.

- Crandall, R.M., R.E. Masters, and R.J. Tyrl. Herbaceous plant community response to variable fire frequency and overstory canopy cover in an Oklahoma pine-hardwood forest.
- Crandall, R.M., and W.J. Platt. Reciprocal transplants of woody reseeders and resprouters (*Hypericum* spp.) along fire-frequented ecoclines of the Florida northern Gulf Coast.
- Crandall, R.M. and T.M. Knight. Seasonal timing and intensity of fire alters competition between the invasive legume, *Lespedeza cuneata*, and co-occurring native species.
- Crandall, R.M. and T.M. Knight. Fire and removal of invasive species interact to influence population dynamics of co-occurring native plants.
- Harmon-Threatt, A., and R.M. Crandall. The indirect effects of fire on the mutualistic relationships between plants and pollinators in frequently-burned prairies.

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## FUNDING

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| 2013      | Gephardt Faculty Innovation Grant, Washington University in St. Louis (\$1,250)  |
| 2010      | BioGrads Research Grant, Louisiana State University (\$300)  |
| 2009      | BioGrads Research Grant, Louisiana State University (\$300)  |
| 2008      | Office of Environmental Education Grant, Louisiana Environmental Education Commission (\$1,000)  |
| 2008      | Friends of the St. Joseph Bay State Buffer Preserve (\$500)  |
| 2008      | BioGrads Research Grant, Louisiana State University (\$300)  |
| 2007      | BioGrads Research Grant, Louisiana State University (\$300)  |
| 2006      | BioGrads Research Grant, Louisiana State University (\$250)  |
| 2005      | Fellowship for Wetland Research, Garden Club of America (\$5,000)  |
| 2005      | Office of Environmental Education Grant, Louisiana Environmental Education Commission (\$1,000)  |
| 2004      | BioGrads Research Grant, Louisiana State University (\$300)  |
| 2003-2007 | Graduate Enhancement Stipend Award, Louisiana State University (\$14,000)  |
| 2003      | BioGrads Research Grant, Louisiana State University (\$250)  |
| 2001-2002 | Status of the Wildlife Habitats in Pushmataha Habitat Research Area and Pushmataha Wildlife Management Area, Oklahoma Department of Wildlife Conservation. With Ronald J. Tyrl (\$6,069) |
| 2002      | McPherson Award, Oklahoma State University (\$370)   |
| 2001      | McPherson Award, Oklahoma State University (\$500)   |
| 1996      | Summer Research Institute Grant, Butler University (\$500 + housing)   |

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## TEACHING

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<b>Course Title</b>	<b>Position</b>	<b>Institution*</b>	<b>Semester</b>
Practical Skills in Environmental Biology	Primary Instructor	WUSTL	Spring 2013
Controversies in Conservation Biology	Primary Instructor	WUSTL	Fall 2012
Microbiology Lab	Teaching Assistant	LSU	Fall 2010
Labs in Conservation Biology	Teaching Assistant	LSU	Spring 2010
Microbiology	Teaching Assistant	LSU	Fall 2009
Labs in Conservation Biology	Teaching Assistant	LSU	Spring 2009
Conservation Biology	Teaching Assistant	LSU	Summer 2005
Plant Taxonomy	Teaching Assistant	LSU	Spring 2005
Conservation Biology	Teaching Assistant	LSU	Summer 2004
Plant Taxonomy	Teaching Assistant	LSU	Spring 2004
Ecology	Teaching Assistant	OSU	Summer 2003
Plant Taxonomy	Teaching Assistant	OSU	Spring 2003
Botany	Teaching Assistant	OSU	Fall 2002
Botany	Lab Coordinator	OSU	Fall 2002
Botany	Teaching Assistant	OSU	Spring 2002
General Biology	Teaching Assistant	OSU	Spring 2001
General Biology	Teaching Assistant	OSU	Fall 2001

\*WUSTL = Washington University in St. Louis; LSU = Louisiana State University; OSU = Oklahoma State University

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## MENTORING

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### Undergraduates

2013-2016	Tom Collins	Meramec Community College & Tyson Research Center
2013-2014	Emily Wen	Washington University & Tyson Research Center
2012-2014	Eleanor Pearson	Washington University & Tyson Research Center
2012	Mikala Evans	Washington University & Tyson Research Center
2012	Brennan Kaiser	Washington University & Tyson Research Center
2011-2015	Shannon Guthrie	Washington University & Tyson Research Center
2011	Rachel Waterman	Washington University & Tyson Research Center
2006	Melissa Day	Louisiana State University
2005	Sree Mandava	Louisiana State University
2005	Thu Bui	Louisiana State University

### High School Students

2013	George Garner	Washington University & Tyson Research Center
2013	Andrew Feltmann	Washington University & Tyson Research Center
2012	Jackie Edmonds	Washington University & Tyson Research Center
2012	Kathleen Endicott	Washington University & Tyson Research Center
2012	Noah Feuer	Washington University & Tyson Research Center
2012	Nithya John	Washington University & Tyson Research Center
2012	Tyler Pokoski	Washington University & Tyson Research Center

2011-2012	Josef Kanak	Washington University & Tyson Research Center
2011-2012	Milena Kanak	Washington University & Tyson Research Center
2011	Dee Lou	Washington University & Tyson Research Center
2011	Garima Thakkar	Washington University & Tyson Research Center
2011	Dan Peipert	Washington University & Tyson Research Center
2011	Bryan Rosinski	Washington University & Tyson Research Center

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## PRESENTATIONS AT PROFESSIONAL MEETINGS

\*Undergraduate \*\*High School Student

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- 2016 Crandall, R.M. and T.M. Knight. Fire differentially affects fitness and population growth of an invasive shrub compared to coexisting native species. Neobiota: 9<sup>th</sup> International Conference on Biological Invasions, Vianden, Luxembourg. (Poster)
- 2016 Crandall, R.M. and T.M. Knight. Seasonal timing and intensity of fire alters the competitive relationship between the invasive legume, *Lespedeza cuneata*, and co-occurring native species. North American Prairie Conference, Normal, IL
- 2015 Crandall, R.M. and T.M. Knight. Biotic interactions alter the effectiveness of using fire to control *Ailanthus altissima*. Annual St Louis Ecology, Evolution and Conservation Retreat, St. Louis, MO. (Poster)
- 2015 Harmon-Threatt, A.N. and Crandall, R.M. Fires effect on bee phenology, plant phenology, interactions and seed set. Entomological Society of America, Minneapolis, MN.
- 2015 Crandall, R.M. and T.M. Knight. Biotic interactions alter the effectiveness of using fire to control *Ailanthus altissima*. Botanical Society of America, Edmonton, Alberta, Canada.
- 2015 \*Guthrie, S. and R.M. Crandall. The direct and indirect effects of fire differentially affect germination of an invasive tree, *Ailanthus altissima*. Undergraduate Research Symposium, St. Louis, MO.
- 2014 Crandall, R.M. and T.M. Knight. Positive frequency dependence, alternative stable states and the use of fire to restore communities degraded by invasive species. 27th Conference of the Plant Population Biology Section (PopBio) of the Ecological Society of Germany, Austria and Switzerland, Konstanz, Germany.
- 2013 \*Pearson, E., and R.M. Crandall. Perennial grasses and droughts interact to influence diversity and growth of native plants. Undergraduate Research Symposium, St. Louis, MO.
- 2013 \*\*Feltmann, A., and R.M. Crandall. Removal of an invasive species, *Lonicera maackii*, increases deer usage but only in unburned habitats. Undergraduate Research Symposium, St. Louis, MO.
- 2013 \*\*Garner, G., and R.M. Crandall. Removal of an invasive species, *Alliaria petiolata*, influences recruitment of woody plants. Undergraduate Research Symposium, St. Louis, MO.
- 2012 Crandall, R.M. and T.M. Knight. Seasonal timing and intensity of fire alters competition between the invasive legume, *Lespedeza cuneata*, and co-occurring native species. St. Louis Ecology, Evolution, and Conservation Retreat, Principia College, Elsah, IL.
- 2012 \*Evans, M., and R.M. Crandall. Fire and the removal of invasive species changes leaf traits of native plants. Undergraduate Research Symposium, St. Louis, MO.

- 2012 \*\*John, N., and R.M. Crandall. Dormant season fires increase leaf toughness of an invasive shrub, *Lonicera maackii*. Undergraduate Research Symposium, St. Louis, MO.
- 2012 \*Pearson, E., and R.M. Crandall. Seasonal timing of fire affects survival of the invasive legume, *Lespedeza cunetata*, and co-occurring native species. Undergraduate Research Symposium, St. Louis, MO.
- 2012 \*\*Pokoski, T., \*\*Feuer, N., and R.M. Crandall. The removal of invasive species, not fire, increases understory plant species richness. Undergraduate Research Symposium, St. Louis, MO.
- 2012 Crandall, R.M. and T.M. Knight. Seasonal timing and intensity of fire alters the competitive relationship between the invasive legume, *Lespedeza cuneata*, and co-occurring native species. 97th Annual Ecological Society of America, Portland, OR.
- 2011 Crandall, R.M. and W.J. Platt. Mechanisms influencing co-occurrence of congeneric reseeder and resprouters (*Hypericum* spp.) in frequently burned pine savannas. 38<sup>th</sup> Annual Natural Areas Conference, Tallahassee, FL.
- 2011 Crandall, R.M. and R.E. Masters. Effects of timber and fire management on the understory plant community in a mixed-pine hardwood forest. 96th Annual Ecological Society of America, Austin, TX. (Poster)
- 2011 Crandall, R.M. and R.E. Masters. Effects of timber and fire management on the understory plant community in a mixed-pine hardwood forest. Botanical Society of America, St. Louis, MO. (Poster)
- 2010 Crandall, R.M. and W.J. Platt. What limits the distribution of woody reseeders and resprouters (*Hypericum* spp.) along ecoclines in coastal pine savannas? LSU BioGrads Symposium, Baton Rouge, LA.
- 2010 Crandall, R.M. and W.J. Platt. What limits the distribution of woody reseeders and resprouters (*Hypericum* spp.) along coastal ecoclines in pine savannas of northern Florida? 96th Annual Ecological Society of America, Pittsburgh, PA.
- 2010 Drewa, P.B., W.J. Platt, and R.M. Crandall. Do periodic hurricanes drive stand dynamics of sand pine (*Pinus clausa*)? 95th Annual Ecological Society of America, Pittsburgh, PA. (Poster)
- 2009 Crandall, R.M. and W.J. Platt. Effects of fire on population dynamics of congeneric pine savanna reseeders and resprouters (*Hypericum* spp.). LSU BioGrads Symposium, Baton Rouge, LA.
- 2009 Crandall, R.M. and W.J. Platt. Effects of fire on population dynamics of congeneric pine savanna reseeders and resprouters (*Hypericum* spp.). 94th Annual Ecological Society of America, Albuquerque, NM.
- 2008 Crandall, R.M. and W.J. Platt. Test of woody reseeders and resprouters (*Hypericum* spp.) habitat associations along fire-frequented ecoclines of the northern Florida gulf coast. LSU BioGrads Symposium, Baton Rouge, LA.
- 2008 Crandall, R.M. and W.J. Platt. Persistence of woody reseeders and resprouters (*Hypericum* spp.) along fire-frequented ecoclines of the northern Florida gulf coast. Botanical Society of America, Vancouver, B.C.
- 2007 Crandall, R.M. and W. J. Platt. Habitat associations of woody reseeders and resprouters (*Hypericum* spp.) along fire-frequented ecoclines of the northern Florida gulf coast. LSU BioGrads Symposium, Baton Rouge, LA.

- 2007 Crandall, R.M. and W. J. Platt. Distribution of woody reseeders and resprouters (*Hypericum* spp.) along fire-frequented ecoclines of the northern Florida gulf coast. 34<sup>th</sup> Annual Natural Areas Conference, Cleveland, OH.
- 2006 Crandall, R.M. and W. J. Platt. Habitat associations of woody reseeders and resprouters (*Hypericum* spp.) along frequently burned coastal ecoclines. BioGrads Symposium, Baton Rouge, LA.
- 2006 Crandall, R.M. and W. J. Platt. Habitat associations of woody reseeders and resprouters (*Hypericum* spp.) along frequently burned coastal ecoclines. 91st Annual Ecological Society of America, Memphis, TN. (Poster)
- 2003 Crandall, R.M., R.E. Masters, and R.J. Tyrl. Response of understory plant communities to timber and fire management in an Oklahoma pine-hardwood forest. 50<sup>th</sup> Anniversary Meeting of the Southwest Association of Naturalists, Edmond, OK.
- 2003 Ackland, E.N., R.M. Crandall, and C.R. Hayes. Application of the intermediate disturbance hypothesis to flooding. 50<sup>th</sup> Anniversary Meeting of the Southwest Association of Naturalists, Edmond, OK.
- 2002 Crandall, R.M., R.E. Masters, and R.J. Tyrl. Response of understory plant communities to timber and fire management and implications for wildlife management in an Oklahoma pine-hardwood forest. Annual Meeting of the Oklahoma Chapter of The Wildlife Society, Stillwater, OK.
- 2002 Crandall, R.M. Flora of the Pushmataha Wildlife Management Area. 91st Annual Technical Meeting of the Oklahoma Academy of Science, Edmond, OK.
- 2002 Crandall, R.M., R.E. Masters, and R.J. Tyrl. Response of herbaceous plant communities to timber and fire management in the Pushmataha Forest Habitat Research Area. 13th Annual Oklahoma State University Research Symposium, Stillwater, OK.
- 2001 Crandall, R.M., R.J. Tyrl, and R.E. Masters. Changes in the plant communities in the Pushmataha Forest Habitat Research Area. 90th Annual Technical Meeting of the Oklahoma Academy of Science, Tulsa, OK.
- 2001 Crandall, R.M., R.E. Masters, and R.J. Tyrl. Herbaceous plant community response to timber and fire management. Joint Meeting of the Oklahoma Ornithological Society, The Wildlife Society, and the Society for Range Management- The Changing Ecology of Oklahoma, Stillwater, OK.
- 1997 Crandall, R.M. and R.W. Dolan. Results of floristic investigation of Crooked Creek Community Juan Soloman Park, Indianapolis, IN. Undergraduate Research Conference, Indianapolis, IN.
- 1996 Crandall, R.M. and R.W. Dolan. Floristic investigation of Crooked Creek Community Juan Soloman Park, Indianapolis, IN. Indiana Academy of Science, Greencastle, IN.

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## INVITED PRESENTATIONS

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- 2016 University of Florida (Gainesville, FL), Illinois Natural History Survey (Urbana-Champaign, IL), DePaul University (Chicago, IL)
- 2015 Washington University in St. Louis (St. Louis, MO), Butler University (Friesner Herbarium Open House, Indianapolis, IN), Roosevelt University (Chicago, IL), University of Western

	Georgia (Carrollton, GA), Texas A&M University (Corpus Christi, TX), St. Mary's College (South Bend, IN), University of Arkansas (Little Rock, AR), University of North Carolina (Wilmington, NC)
2013	Murray State University (Murray, KY)
2012	University of Missouri (Columbia, MO)
2010	Louisiana State University (Biology Departmental Seminar, Baton Rouge, LA), Washington University in St. Louis (St. Louis, MO), Louisiana State University (Plant Pathology & Crop Physiology Departmental Seminar, Baton Rouge, LA)
2009	Louisiana State University (Biology Intensive Orientation for Students, Baton Rouge, LA)
2003	Oklahoma State University (Department of Botany Seminar Series, Stillwater, OK)
2002	Coordinating Committee Meeting of the Oklahoma Cooperative Fish and Wildlife Research Unit (Stillwater, OK)
2002	Oklahoma State University (Botanical Society, Stillwater, OK)
2001	Oklahoma State University (4th Biennial Symposium on Multivariate Methods in Ecology, Stillwater, OK)
2001	Oklahoma State University (Botanical Society, Stillwater, OK)
2001	Oklahoma State University (Department of Botany Seminar Series, Stillwater, OK)
1997	Research in Crooked Creek Watershed Meeting (Indianapolis, IN)
1996	Butler University (Butler Summer Research Institute, Indianapolis, IN)

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## AWARDS AND HONORS

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2015	Associate level of training in STEM education, Washington University – Center for the Integration of Research, Teaching, and Learning
2010	LSU BioGrads Symposium Best Oral Presentation: Systematics, Ecology, and Evolution, Louisiana State University
2008	LSU BioGrads Symposium Best Oral Presentation: Systematics, Ecology, and Evolution, Louisiana State University
2005	Daisy B. and William J. Luke Teaching Award for excellence in plant biology instruction, Louisiana State University
2002-2003	College of Arts and Sciences Outstanding Teaching Assistant, Oklahoma State University
1996	Who's Who Among Students in American Colleges and Universities, Butler University
1996-1997	John Potzer Scholarship for outstanding academic achievement in botany and ecology, Butler University
1997	Academic Achievement Award from Pi Beta Phi, Butler University
1993-1994	Baynhan and Presidential Scholarships, Hanover College



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## PROFESSIONAL AND COMMUNITY SERVICE

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### Reviewing

- 2001-present Reviewer for journals: *Ecology*, *Journal of Vegetation Science*, *Bulletin of the Torrey Botanical Society*, *Ecology*, *Frontiers in Ecology and the Environment*, *Oecologia*, *Plant Ecology*, *Natural Areas Journal*, and others.
- 2002 Reviewer for textbook: Leps, J. and P. Smilauer. 2003. *Multivariate Analysis of Ecological Data Using CANOCO*. Cambridge University Press, New York, NY. 282pp.

### Educational Outreach

- 2016 Guest Lecture: Invasive species in the Chicago region. Roosevelt University, Chicago, IL.
- 2015 Guest Lecture: Restoration in tallgrass prairies. McKendree University, IL.
- 2015 Guest Lecture: Restoration in longleaf pine savannas. University of North Carolina, Wilmington, NC.
- 2015 Guest Lecture: Invasive species in the Chicago region. Roosevelt University, Chicago, IL.
- 2011-2015 Ecology Mentor: Shaw Institute for Field Training (SIFT) Program for high-school students, Shaw Nature Reserve, MO.
- 2011 Guest lecture: The importance of fire in land management. The Tyson Seminar: Grounding Research in Nature (GEST L43 160) Washington University, St. Louis, MO.
- 2010 Information booth: Local invasive species and sea level rise along Gulf of Mexico. Red Stick Earth Day Celebration, Baton Rouge, LA
- 2010 Guest lecture: Effects of fire on seeds & ecology of fruits and seed dispersal. Seed Physiology (BIOL/PLHL 4444), Louisiana State University, Baton Rouge, LA.
- 2009 Guest lecture: What the trees can tell us. Special Saturday Seminar and Activity Day for Children Ages 5-10, Louisiana State University Museum of Natural Science, Baton Rouge, LA
- 2009 Information booth: Local invasive species and use of prescribed fire for management. Red Stick Earth Day Celebration, Baton Rouge, LA
- 2009 Guest lecture: Ecology of fruits and seed dispersal. Seed Physiology (BIOL/PLHL 4444), Louisiana State University, Baton Rouge, LA.
- 2009 Guest lecture: Fire ecology, dormancy, and seed banks. Seed Physiology (BIOL/PLHL 4444), Louisiana State University, Baton Rouge, LA.
- 2008 Guest lecture: Ecology of fruits and seed dispersal. Seed Physiology (BIOL/PLHL 4444), Louisiana State University, Baton Rouge, LA.
- 2008 Guest lecture: Crandall, R.M. Fire ecology, dormancy, and seed banks. Seed Physiology (BIOL/PLHL 4444), Louisiana State University, Baton Rouge, LA.
- 2005-2007 Science Fair Judge, Louisiana State University, Baton Rouge, LA
- 2002-2003 Science Fair Judge, Oklahoma State University, Baton Rouge, LA
- 2001 Activity Leader: Common trees of the cross-timbers region of Oklahoma. Girl Scouts of Magic Empire Council Meeting, John Zink Ranch, OK.

## Volunteer Work

- 2011-2015 Prescribed burn manager, Tyson Research Center, Eureka, MO  
2005-2011 Restoration volunteer, St. Joe Bay State Buffer Preserve, St. Joe, FL  
1995-1997 Prescribed burn volunteer, The Nature Conservancy, Indianapolis, IN

## Committees

- 2009-2010 "Go Green Baton Rouge" committee, Baton Rouge, LA  
2003-2010 BioGrads, Louisiana State University, Baton Rouge, LA  
2001-2003 OSU Botanical Society, Oklahoma State University, Stillwater, LA  
1995-1997 President, Biological Sciences Club, Butler University, Indianapolis, IN  
1995-1997 Vice President, American Chemical Society, Butler University, Indianapolis, IN

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## PROFESSIONAL WORKSHOPS ATTENDED

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- 2015 R Programming Workshop, Missouri Botanical Gardens, St. Louis, MO  
2011-15 Introduction to STEM pedagogies series, Washington University, St. Louis, MO
  - Incorporating Active Learning
  - Peer-Led Team Learning
  - Teaching Students How to Critically Evaluate Scientific Literature
  - Service Learning in STEM Disciplines
  - Applying Cognitive Science to Improve Teaching
  - Collaborative-learning groups: Philosophy and Implementation
  - Structuring an Introductory STEM course

2014 Entering Mentoring, Washington University, St. Louis, MO  
2012 Demography in a Continuous World: New Advances in Integral Projection Models (IPMs), Ecological Society of America, Portland, OR  
2010 Structural Equation Modeling, Louisiana State University, Baton Rouge, LA  
2008 Primer E, Ltd. Training, Texas A&M University, Corpus Christi, TX  
2007 16<sup>th</sup> Annual North American Dendroecology Field Week, Hatfield Marine Science Center, Newport, OR  
1999 Wildfire Chainsaw S212, Certified as an "A" feller, U.S. Forest Service, Rifle, CO  
1999 Wildland Firefighting S130/190, Colorado Fire Camp, Salida, CO

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## PROFESSIONAL MEMBERSHIPS

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| Association of Fire Ecologists             | Natural Areas Association              |
| Ecological Society of America              | Southern Appalachian Botanical Society |
| Botanical Society of America               | Joint Fire Science Council             |
| International Association of Wildland Fire | Florida Native Plant Society           |