

# Curriculum Vita

D. Paul Jackson, Ph.D.

(Updated: September 2022)

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## EDUCATION

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- Ph.D. Horticulture, Auburn University, Aug 2007-Aug 2010  
*Dissertation-Effects of Pythium and Cold Storage on the Survival of Southern Pine Seedlings*
- M.S. Environmental Biology, Louisiana Tech University, Dec 2003-May 2006  
*Thesis-Relating Morphology, Nutrition, and Bud Development to Liquid Fertilizer Application of Containerized Longleaf Pine Seedlings*
- B.S. Biology, Northwestern State University, Aug 1996-Dec 2000

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## EMPLOYMENT EXPERIENCE

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| Sept 2018-Present  | Associate Professor, School of Agricultural Sciences and Forestry, College of Applied and Natural Sciences, Louisiana Tech University, Ruston, LA           |
| Sept 2012-Aug 2018 | Assistant Professor, School of Agricultural Sciences and Forestry, College of Applied and Natural Sciences, Louisiana Tech University, Ruston, LA           |
| Sept 2012-May 2018 | Affiliate Assistant Professor, School of Forestry and Wildlife Sciences, Auburn University, Auburn, AL  |
| Aug 2010-Aug 2012  | Research Fellow, School of Forestry and Wildlife Sciences, Southern Forest Nursery Management Cooperative (SFNMC), Auburn University, Auburn, AL            |
| Aug 2007-Aug 2010  | Ph.D. Graduate Research Assistant, College of Agriculture, Department of Horticulture, Auburn University, Auburn, AL  |
| Jan 2006-Aug 2007  | Biological Science Technician (GS-6/7), USDA Forest Service, Southern Research Station, Restoring and Managing Longleaf Pine Ecosystems Unit, Pineville, LA |
| Mar 2002-Jan 2006  | Forestry Technician (GS-4/5), USDA Forest Service, Southern Research Station, Restoring and Managing Longleaf Pine Ecosystems Unit, Pineville, LA           |
| Feb 2001-Mar 2002  | Forestry Aid (GS-3), USDA Forest Service, Southern Research Station, Ecology and Management of Even-Aged Southern Forests Unit, Pineville, LA               |

## GRANTS AND EXTRAMURRAL FUNDING

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### Funded Externally (Total = \$235,386)

- 2020-Shoemaker, K.D. and D.P. Jackson (P.I.). *Training Future Landscape Horticulturalists and Providing an Interactive Landscape at Louisiana Tech University's IDEA Place*. Louisiana Nursery and Landscape Association. Funded Amount: \$3,500
- 2016-Jackson, D.P. (P.I.) and R. Olatinwo. *Relating Substrate pH to Pathogen Populations, Causal Virulence, and Southern Pine Seedling Quality*. USDA Forest Service, Southern Research Station: Insects, Diseases, and Invasive Plants Unit. Funded amount: \$15,000
- 2016-Adams J, N. (P.I.), N. Clay, A. Keith, D.P. Jackson, and G. Holley. *Cedar/Garlic Insect Repellant: Testing in a Controlled Environment*. Mr. Richard Fewell (Entrepreneur). Funded amount: \$34,598
- 2015-Jackson, D.P. *Evaluation of longleaf pine (*Pinus palustris*) seedlots for the prevalence of hybridization*. USDA Forest Service, Southern Research Station: Restoring and Managing Longleaf Pine Ecosystems Unit. Funded amount: \$53,388
- 2013-Jackson, D.P. (P.I.) and J.A. Reichley. *A safe lighting system and mechanical ventilation for the Louisiana Tech University greenhouses*. Louisiana Board of Regents. Funded amount: \$48,900 (Ranked #1 out of 15 statewide applicants)
- 2011-Jackson, D.P. (P.I.) and Enebak, S.A. *Evaluation of herbicides for the propagation and establishment of herbaceous plants indigenous to the ground-layer community of the longleaf pine ecosystem*. USDA Forest Service. Funded amount: \$80,000 (Sub-award brought to Tech-\$24,000)

### Funded Internally (Total = \$39,621)

- 2022-D.P. Jackson. *A New Concrete Path for Safer Pedestrian Traffic in the John D. Griffin Garden on South Campus*. Lagniappe Ladies. Funded Amount: \$5,000
- 2021-Kelley, A.C. (P.I.), K. King, and D.P. Jackson. *Culture of Caring Awards*. Lagniappe Ladies. Funded Amount: \$5,000
- 2021-Jackson, D.P. *Enclosing the Historic Tech Farm Salesroom Sitting Area in the John D. Griffin Horticultural Garden on South Campus*. Lagniappe Ladies. Funded Amount: \$5,000
- 2020-Shoemaker, K.D., D.P. Jackson (P.I.), and H. Adams. *Influence of Container Color and Medium Depth on Avian Herbivory of Longleaf Pine Seed*. Louisiana Tech University, College of Applied and Natural Sciences, Undergraduate Student Research Mini-Grant. Funded Amount: \$526.
- 2020-Crosby, M.K. (P.I.), J.J. Holderieath, D.P. Jackson, and J.A. Adams. *Acquiring a Sensor package for High-Resolution Data Collection in Natural Resources*. Louisiana Tech University, College of Applied and Natural Sciences, Faculty Research Mini-Grant. Funded Amount: \$3,000
- 2020-Jackson, D.P. *John D. Griffin Pollinator Garden Fence*. Student Government Association, Louisiana Tech University. Funded Amount: \$1,164
- 2019-Jackson, D.P. *New Roofs for the John D. Griffin Horticultural Garden Structures: The Original Louisiana Tech Farm Salesroom and Tool Storage Building*. Lagniappe Ladies. Funded Amount: \$4,500
- 2017-Adams, H. (P.I.) and D.P. Jackson. *Development of a pollinator garden on Louisiana Tech's South Campus*. Lagniappe Ladies. Funded Amount: \$5,000

- 2016-Jackson, D.P. (P.I.), M.R. Register, and J.A. Reichley. *A new rolling door at the Louisiana Tech University Greenhouses to allow access for moving plants and materials.* Lagniappe Ladies. Funded Amount: \$3,900.
- 2015-Jackson, D.P. (P.I.) and J.A. Reichley. *Foliar nutrient analysis of poinsettias under various nutrient regimes.* Louisiana Tech University, College of Applied and Natural Sciences, Faculty Research Mini-Grant. Funded amount: \$360
- 2015-Jackson, D.P. *A CO<sub>2</sub> Pressurized Sprayer to Demonstrate Proper Pesticide Delivery Techniques that Correlate with Improved Environmental and Economic Practices.* Louisiana Tech University, College of Applied and Natural Sciences, Innovative Instruction in Undergraduate Courses Mini-Grant. Funded amount: \$1,253
- 2014-Jackson, D.P. *Evaluation of longleaf pine (Pinus palustris) seedlots for the prevalence of hybridization.* Louisiana Tech University, College of Applied and Natural Sciences, Faculty Research Mini-Grant. Funded amount: \$430
- 2014-Jackson, D.P. *Effects of plant growth regulators and fertilizer supply on the varietal performance of poinsettias.* Louisiana Tech University, College of Applied and Natural Sciences, Faculty Research Mini-Grant. Funded amount: \$545
- 2014-Adams, H. (P.I.), W. Patterson, D.P. Jackson, and W. Palmer. *Use of innovative technology for plant identification at the John D. Griffin horticultural garden and ponds.* Louisiana Tech University, College of Applied and Natural Sciences, Innovative Instruction in Undergraduate Courses Mini-Grant. Funded amount: \$643
- 2013-Bowe, D.N. and D.P. Jackson (P.I.). *Influence of defoliation on the root growth potential of container-grown loblolly pine (Pinus taeda L.) seedlings.* Louisiana Tech University, College of Applied and Natural Sciences, Undergraduate Research Mini-Grant. Funded amount: \$800
- 2013-Hillard, M.M. (P.I.) and D.P. Jackson. *Funding to develop and renovate the area in front of and adjacent to the Louisiana Tech Farm Salesroom to create an attractive and educational space for agricultural products produced on South Campus.* Lagniappe Ladies. Funded amount: \$2,500

Not Funded (Total = \$384,262)

- 2021-Crosby, M.K. (P.I.), J.J. Holderieath, and D.P. Jackson. *The Economic and Ecological Impacts of Hurricane Laura on Agriculture in Louisiana.* Louisiana Board of Regents. Proposed Amount: \$142,273.
- 2020-McConnico, R. (P.I.), H. Adams, J. Adams, L. Gentry, D.P. Jackson, and L. Sims. *Recruiting, Retaining, and Graduating Multicultural Leaders in Agriculture and Forestry.* USDA-National Institute of Food and Agriculture. Proposed Amount: \$200,000
- 2019-VanderSchaaf, C.L. (P.I.), D.P. Jackson, and E. McConnell. *Finalization and testing of an unthinned longleaf pine Timber Decision Support System.* USDA Forest Service, Southern Research Station. Proposed Amount: \$10,000
- 2016-Jackson, D.P. (P.I.) and H. Adams. *Renovations to develop a pollinator garden and aesthetic enhancements to the John D. Griffin Horticultural Garden.* Lagniappe Ladies. Proposed amount: \$5,000
- 2014-Jackson, D.P. *Renovations for an ornamental demonstration garden.* Stanley Smith Horticultural Trust. Proposed amount: \$18,489
- 2013-Lusby, A.K. (P.I.) and D.P. Jackson. *Purchase of a professional grade high definition video camera, associated accessories, and video editing software for enhancement of learning in Agricultural Sciences.* Louisiana Tech University Student Technology Fee Grant. Proposed amount: \$8,500

## PUBLICATIONS

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### Refereed Journal Articles

- Shoemaker, K.D., D.P. Jackson, and H.L. Adams. 2022. *Determining avian herbivory patterns at sowing using loblolly and longleaf pine seed*. *Tree Planters' Notes* 65(1): 82-92.
- Holderieath, J.J., M.K. Crosby, T.E. McConnell, and D.P. Jackson. 2021. *Impact of Covid-19 Related Transition to Online Instruction on Student Achievement*. *Applied Economics Teaching Resources* 3: 15p.
- Bolner, N.G., D.P. Jackson, J.P. Barnett, and R. Olatinwo. 2019. *Evaluation of sowing methods to determine the role of hypocotyl lift in longleaf pine seedling development*. *Tree Planters' Notes* 62(1&2): 88-94.
- Jackson, D.P. and D.N. Bowe. 2017. *Root growth potential of loblolly pine seedlings after defoliation to mimic browsing damage*. *Tree Planters' Notes* 60(2): 19-23.
- Enebak, S.A., D.P. Jackson, T.E. Starkey, and M. Quicke. 2013. *Evaluation of methyl bromide alternatives on loblolly pine production and seedling quality over three growing seasons at the Pine Hill Nursery in Camden, Alabama*. *Journal of Horticulture and Forestry* 5(3): 41-47.
- Enebak, S.A., T.E. Starkey, M. Quicke, and D.P. Jackson. 2013. *Evaluation of plastic tarps, reduced rates, and low-impact application methods of soil fumigants on loblolly pine seedling production*. *The Open Forest Science Journal* 6: 7-13.
- South, D.B., D.P. Jackson, T.E. Starkey, and S.A. Enebak. 2012. *Planting deep increases early survival and growth of Pinus echinata seedlings*. *The Open Forest Science Journal* 5: 33-41.
- Jackson, D.P., S.A. Enebak, and D.B. South. 2012. *Pythium species and cold storage affect the root growth potential and survival of loblolly (Pinus taeda L.) and slash pine (Pinus elliottii Engelm.) seedlings*. *Journal of Horticulture and Forestry* 4(7): 114-119.
- Jackson, D.P., S.A. Enebak, and D.B. South. 2012. *Effects of Pythium species and time in cold storage on the survival of bareroot and container-grown southern pine seedlings*. *ISRN Ecology*. Volume 2012, Article ID 874970: 10 p.
- Jackson, D.P., R.K. Dumroese, and J.P. Barnett. 2012. *Nursery response of container Pinus palustris seedlings to nitrogen supply and subsequent effects on outplanting performance*. *Forest Ecology and Management* 265: 1-12.
- Jackson, D.P., S.A. Enebak, and D.B. South. 2012. *Survival of southern pine seedlings after inoculations with Pythium and cold storage in the presence of peat moss*. *Forest Pathology* 42(1): 44-51.
- Jackson, D.P., C.H. Gilliam, and D.B. South. 2011. *Evaluation of selective postemergence herbicides for yellow nutsedge control and loblolly and slash pine seedling tolerance*. *Journal of Environmental Horticulture* 29(3): 125-131.
- South, D.B., T.E. Starkey, and D.P. Jackson. 2011. *Needle-clipping of longleaf pine (Pinus palustris Mill.) can increase seedling survival while reducing transpiration and root growth potential*. *Journal of Horticulture and Forestry* 3(5): 159-162.

### Conference Proceeding Articles

- Olatinwo, R., D.P. Jackson, S. Sung, A. Mangini, B. Strom, and J.P. Barnett. 2020. *Genetic markers for identification of southern pine species*. Bragg, Don C.; Koerth, Nancy E.; Holley, A. Gordon, eds. 2020. Proceedings of the 20th Biennial Southern Silvicultural Research Conference. e-Gen. Tech. Rep. SRS-253. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 338 p.
- Barnett, J.P., D.P. Jackson, and R. Olatinwo. 2020. *Hybridization of longleaf pine: Is there a growing problem?* Bragg, Don C.; Koerth, Nancy E.; Holley, A. Gordon, eds. 2020. Proceedings of the 20th Biennial Southern Silvicultural Research Conference. e-Gen. Tech. Rep. SRS-253. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 338 p.
- Jackson D.P., J.P. Barnett, R. Olatinwo, B. Strom, and S. Sung. 2020. *Field observations of longleaf pine seedlings to determine the extent of hybridization*. Bragg, Don C.; Koerth, Nancy E.; Holley, A. Gordon, eds. 2020. Proceedings of the 20th Biennial Southern Silvicultural Research Conference. e-Gen. Tech. Rep. SRS-253. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 338 p.
- Jackson, D.P., S.A. Enebak, J. West, and D. Hinnant. 2015. *Assessing tolerance of longleaf pine understory herbaceous plants to herbicide applications in a container nursery*. In Proceedings: Holley A. Gordon; Connor, Kristina F.; Haywood, James D., eds. 17<sup>th</sup> Biennial Southern Silviculture Research Conference, e-Gen. Tech. Rep. SRS-203, Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 265-271.
- Dumroese, R.K., J.P. Barnett, D.P. Jackson, and M.J. Hains. 2013. *Interim guidelines for growing longleaf pine seedlings in container nurseries*. In: Proceedings of the 15<sup>th</sup> Biennial Southern Silvicultural Research Conference. Gen. Tech. Rep. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 141-148.
- Jackson, D.P., T.E. Starkey, and S.A. Enebak. 2011. *Five years of methyl bromide alternatives research in forest tree nurseries*. In: Proceedings of the Annual International Research Conference on Methyl Bromide Alternatives and Emissions Reductions. 33: 1-4.
- Barnett, J.P., D.P. Jackson, and R.K. Dumroese. 2010. *Longleaf pine bud development: Influence of seedling nutrition*. In: Stanturf, J.A., ed. Proceedings of the 14<sup>th</sup> Biennial Southern Silvicultural Research Conference. Gen. Tech. Rep. SRS-121. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 235-240.
- Jackson, D.P., R.K. Dumroese, J.P. Barnett, and W.B. Patterson. 2010. *Effects of liquid fertilizer application on the morphology and outplanting success of container longleaf pine seedlings*. In: Stanturf, J.A., ed. Proceedings of the 14<sup>th</sup> Biennial Southern Silvicultural Research Conference. Gen. Tech. Rep. SRS-121. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station: 229-234.
- Jackson, D.P., C. Gilliam, D. South, S. Enebak, and D.J. Eakes. 2009. *Evaluation of four herbicides to control yellow nutsedge and assess seedling tolerance in loblolly and slash pine seedlings*. Proceedings, Southern Nursery Association Research Conference. 54: 129-133.

- Jackson, D.P., S. Enebak, D. South, C. Gilliam, and D.J. Eakes. 2008. *The effect of Pythium and cold storage on the root growth potential and root collar diameter of longleaf pine (Pinus palustris) seedlings*. Proceedings, Southern Nursery Association Research Conference. 53: 374-378.
- Jackson D.P., R.K. Dumroese, J.P. Barnett, and W.B. Patterson. 2007. *Container longleaf pine seedling morphology in response to varying rates of nitrogen fertilization in the nursery and subsequent growth after outplanting*. In: Riley L.E., Dumroese R.K., Landis T.D., Tech. Coords. National Proceedings, Forest and Conservation Nursery Associations—2006. Proc. RMRS-P-50. Fort Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station: 114-119.

#### University Research Reports

- Enebak, S.A., B. Whitaker, B. Brooks, and D.P. Jackson. 2013. *The effect of hardwood seed size, species, and nursery soils on the formation of stem galls and seedling tolerance to applications of Pendulum<sup>®</sup> AquaCap<sup>™</sup>*. Southern Forest Nursery Management Cooperative (SFNMC), Auburn University. Research Report 13-03: 8 p.
- Enebak, S.A., B. Whitaker, B. Brooks, and D.P. Jackson. 2013. *Annual sedge (Cyperus compressus) control in loblolly pine*. SFNMC, Auburn University. Research Report 13-04: 8 p.
- Enebak, S.A., B. Whitaker, B. Brooks, and D.P. Jackson. 2013. *Controlling morningglory (Ipomoea sp.) in hardwoods using pre- and postemergence herbicides at the East Tennessee and Native Forest nurseries*. SFNMC, Auburn University. Research Report: 13-05: 9 p.
- Jackson, D.P. and B. Brooks. 2012. *Effects on herbicide gall formation and survival from applications of undiluted Pendulum<sup>®</sup> AquaCap<sup>™</sup> to loblolly pine seedlings*. SFNMC, Auburn University. Research Report 12-05: 10 p.
- Jackson, D.P. and B. Brooks. 2012. *Hardwood seedling tolerance to Pendulum<sup>®</sup> AquaCap<sup>™</sup> applications*. SFNMC, Auburn University. Research Report 12-03: 8 p.
- Jackson, D.P. and D.B. South. 2012. *Screening of Pendulum<sup>®</sup> AquaCap<sup>™</sup> and Tower<sup>®</sup> herbicides on pine seedbeds*. SFNMC, Auburn University. Research Report 12-01: 14 p.
- Jackson, D.P. and D.B. South. 2011. *Pine bark mulch increases seed efficiency of loblolly pine in a pendimethalin trial*. SFNMC, Auburn University. Research Report 11-05: 8 p.
- Jackson, D.P., T. Starkey, and S. Enebak. 2011. *Evaluation of methyl bromide alternatives using a low disturbance fumigation rig in the production of loblolly pine seedlings in a Georgia forest tree nursery*. SFNMC, Auburn University. Research Report 11-02: 9 p.
- Jackson, D.P., M. Quicke, T. Starkey, and S. Enebak. 2011. *Effect of methyl bromide alternatives on seedling quality at the Joshua Timberlands forest tree nursery in Elberta, Alabama: 2009-2010*. SFNMC, Auburn University. Research Report 11-01: 9 p.
- Jackson, D.P. and S. Enebak. 2010. *Pythium populations in bareroot nursery soils*. SFNMC, Auburn University. Research Report 10-12: 7 p.
- Jackson, D.P. and S. Enebak. 2010. *The use of Proline<sup>®</sup> for the control of Pythium and Botrytis spp.* SFNMC, Auburn University. Research Report 10-10: 11 p.

#### Other Scholarly Articles: Regional Papers, Newsletters, Magazines and Extension Bulletins

- 2019-*Bushy Tales from the Back Forty*. August 2019. Colfax Chronicle.
- 2018-*Out on a Limb: The View from a Walnut Tree*. November 2018. Colfax Chronicle.
- 2017-*Grant Farmer is Watermelon Legend*. May 2017. Piney Woods Journal: Vol. 12, No. 20.
- 2012-*Timing of Pendulum® AquaCap™ application influences the chance of gall formation on seedlings*. Auburn University, Southern Forest Nursery Management Cooperative, Management Alert: 2012-02.
- 2012-*Pendulum® AquaCap™ vs. Pendulum® 3.3 EC*. Auburn University, Southern Forest Nursery Management Cooperative, Fall 2012 Newsletter.
- 2012-*Know weeds: Hairy bittercress*. Auburn University, Southern Forest Nursery Management Cooperative, Spring 2012 Newsletter.
- 2012-*USDA Areawide methyl bromide alternatives trials-Camden, AL*. Auburn University, Southern Forest Nursery Management Cooperative, Spring 2012 Newsletter.
- 2012-*Herbicides targeting annual sedge*. Auburn University, Southern Forest Nursery Management Cooperative, Spring 2012 Newsletter.
- 2012-*Herbicide trials on eclipta*. Auburn University, Southern Forest Nursery Management Cooperative, Spring 2012 Newsletter.
- 2011-*Know weeds: Sicklepod*. Auburn University, Southern Forest Nursery Management Cooperative, Fall 2011 Newsletter.
- 2011-*Pendulum® AquaCap™: How it works on spurge*. Auburn University, Southern Forest Nursery Management Cooperative, Fall 2011 Newsletter.
- 2011-*Sporatec on willow*. Auburn University, Southern Forest Nursery Management Cooperative, Fall 2011 Newsletter.
- 2011-*USDA Areawide methyl bromide alternatives trials at Camden, AL*. Auburn University, Southern Forest Nursery Management Cooperative, Fall 2011 Newsletter.
- 2011-*Herbicide galls revisited*. Auburn University, Southern Forest Nursery Management Cooperative, Spring 2011 Newsletter.
- 2011-*2010 methyl bromide alternatives trials in Alabama and Georgia: First year results*. Auburn University, Southern Forest Nursery Management Cooperative, Spring 2011 Newsletter.
- 2011-*2009 methyl bromide alternatives trials in Alabama: Second year results*. Auburn University, Southern Forest Nursery Management Cooperative, Spring 2011 Newsletter.
- 2011-*Know weeds: Prostrate spurge*. Auburn University, Southern Forest Nursery Management Cooperative, Spring 2011 Newsletter.
- 2010-*Pythium and cold storage conclusions*. Auburn University, Southern Forest Nursery Management Cooperative, Fall 2010 Newsletter.
- 2010-*Know weeds: Eclipta*. Auburn University, Southern Forest Nursery Management Cooperative, Fall 2010 Newsletter.
- 2010-*Methyl bromide trials in Alabama and Georgia*. Auburn University, Southern Forest Nursery Management Cooperative, Fall 2010 Newsletter.

## ORAL PRESENTATIONS

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### Professional Conferences

- 2019-Jackson D.P., J.P. Barnett, R. Olatinwo, B. Strom, and S. Sung. *Field Observations of Longleaf Pine Seedlings to Determine the Extent of Hybridization*. 20<sup>th</sup> Biennial Southern Silviculture Research Conference, Shreveport, LA, March 12, 2019.
- 2019-Barnett, J.P., R. Olatinwo, D.P. Jackson, and S. Blomquist. *Longleaf Pine Hybridization: Is There a Growing Problem?* 20<sup>th</sup> Biennial Southern Silviculture Research Conference, Shreveport, LA, March 12, 2019.
- 2018-Jackson D.P., N. Bolner, J.P. Barnett, and R. Olatinwo. *Evaluation of Sowing Methods to Detect Sonderegger Pine Seedlings*. Joint Annual Southern and Northeastern Forest and Conservation Nursery Association Conference, Pensacola, FL, July 17, 2018.
- 2016-Jackson, D.P., R.K. Dumroese, and D.J. Leduc. *Evaluation of Longleaf Pine Fertilization Treatments in the Nursery Nine Years After Outplanting*. Joint Annual Southern and Northeastern Forest and Conservation Nursery Association Conference, Lake Charles, LA, July 21, 2016.
- 2013-Jackson, D.P., S.A. Enebak, J. West, and D. Hinnant. *Assessing Tolerance of Longleaf Pine Understory Herbaceous Plants to Herbicide Applications in a Container Nursery*. 17<sup>th</sup> Biennial Southern Silviculture Research Conference, Shreveport, LA, March 5, 2013.
- 2011-*Five Years of Methyl Bromide Alternatives Research in Forest Tree Nurseries*. International Research Conference on Methyl Bromide Alternatives and Emissions Reductions, San Diego, CA, Nov 1, 2011.
- 2011- Jackson, D.P., S.A. Enebak, and D.B. South. *Pythium reduces survival and diameter growth of cold stored longleaf pine seedlings*. 2011. Southwide Forest Disease Meeting, Quincy, FL, February 8, 2011.
- 2009- Jackson, D.P., S.A. Enebak, and D.B. South. *The effects of Pythium and peat moss on loblolly pine seedling survival after cold storage*. Southwide Forest Disease Meeting, Greenville, SC, June 30, 2009.
- 2009- Jackson, D.P., D.B. South, and C.H. Gilliam. *Evaluation of post-emergence herbicides for yellow nutsedge control and loblolly and slash pine seedling tolerance*. Southern Nursery Association Research Conference, Atlanta, GA, February 12, 2009.
- 2009-Jackson, D.P., S.A. Enebak, and D.B. South. *The effect of Pythium spp. and cold storage on the survival of longleaf pine seedlings after outplanting*. American Phytopathological Society, Southern Division Meeting, Atlanta, GA, February 1, 2009.
- 2008-Jackson, D.P., S.A. Enebak, D.B. South, and C.H. Gilliam. *The effect of Pythium and cold storage on the root growth potential and root collar diameter of longleaf pine (Pinus palustris) seedlings*. Southern Nursery Association Research Conference, Atlanta, GA, August 6, 2008.
- 2007-Jackson, D.P., R.K. Dumroese, J.P. Barnett, and W.B. Patterson. *Effects of liquid fertilizer application on the morphology and outplanting success of container longleaf pine seedlings*. 14<sup>th</sup> Biennial Southern Silvicultural Research Conference, Athens, GA, February 26-March 1, 2007.
- 2006- Jackson, D.P., R.K. Dumroese, J.P. Barnett, and W.B. Patterson. *Container longleaf pine seedling morphology in response to varying rates of nitrogen fertilization in the nursery and subsequent growth after outplanting*. Southern Forest Tree Nursery Association Biennial Conference, Tyler, TX, July 10-13, 2006.



### University Research Meetings and Symposiums

- 2016-*A carbon dioxide pressurized pesticide sprayer to demonstrate equipment calibration techniques in the plant sciences*. College of Applied and Natural Sciences Research Symposium, Louisiana Tech University, April 14, 2016.
- 2015-*Field growth response of longleaf pine (Pinus palustris Mill.) nine years after nitrogen fertilization in a container nursery*. College of Applied and Natural Sciences Research Symposium, Louisiana Tech University, April 16, 2015.
- 2011-*Evaluation of clopyralid and diphenyl ether herbicides to control eclipta*. Southern Forest Nursery Management Cooperative, Advisory Meeting, Auburn, AL, November 10, 2011.
- 2011-*Pendimethalin herbicide galls on pine and hardwood seedlings*. Southern Forest Nursery Management Cooperative, Advisory Meeting, Auburn, AL, November 10, 2011.
- 2011-*Take home message for the five-year USDA Areawide Methyl Bromide Alternatives Research Program*. Southern Forest Nursery Management Cooperative, Advisory Meeting, Auburn, AL, November 10, 2011.
- 2011-*Areawide demonstration of methyl bromide alternatives: Loblolly pine production in southern forest tree nurseries*. Southern Forest Nursery Management Cooperative, Contact Meeting, Augusta, GA, June 28, 2011.
- 2011-*Pendulum® AquaCap™ trials at sowing*. Southern Forest Nursery Management Cooperative, Contact Meeting, Augusta, GA, June 28, 2011.
- 2010-*Areawide demonstration of methyl bromide alternatives: Forest nurseries in the southern US*. Southern Forest Nursery Management Cooperative, Advisory Meeting, Auburn, AL, November 4, 2010.
- 2010-*Pendimethalin herbicide trials*. Southern Forest Nursery Management Cooperative, Advisory Meeting, Auburn, AL, November 3, 2010.
- 2010-*Effects of Pythium and cold storage on the survival of southern pine seedlings*. Southern Forest Nursery Management Cooperative, Contact Meeting, Little Rock, AR, July 26, 2010.
- 2010-*Relating seedling quality and survival to cold storage of southern pine seedlings in the presence of Pythium*. School of Forestry and Wildlife Sciences Seminar Series, April 28, 2010, Auburn, AL.
- 2009-*Pythium and cold storage: an update on soil surveys and seedling survival*. Southern Forest Nursery Management Cooperative, Advisory Meeting, Auburn, AL, November 5, 2009.
- 2009-*Pythium and cold storage: an update on seedling survival*. Southern Forest Nursery Management Cooperative, Contact Meeting, Auburn, AL, June 23, 2009, Daphne, AL.
- 2009-*Pythium reduces survival and diameter growth of cold stored longleaf pine seedlings*. Graduate Scholars Forum, March 10, 2009, Auburn, AL.
- 2008-*Cold storage of southern pine seedlings in the presence of Pythium*. Auburn University Forest Health Cooperative Advisory Meeting, December 16, 2008, Auburn, AL.
- 2008-*Seedling survival after exposure to Pythium and cold storage*. Southern Forest Nursery Management Cooperative, Advisory Meeting, Auburn, AL, November 7, 2008.
- 2006-*Relating morphology, nutrition, and bud development to liquid fertilizer application of containerized longleaf pine*. Louisiana Tech University, Applied & Natural Sciences Research Symposium, Ruston, LA, April 2006.

### Workshops and Invited Presentations

- 2021-*Poinsettia Production and Care*. Bernice Garden Club, Bernice, LA, November 8, 2021.
- 2021-*Providing Beauty and Food Using Edible Landscaping*. Farmerville Garden Club, Farmerville, LA, October 7, 2021.
- 2020-*Influence of Nursery Practices on Seedling Quality*. North Louisiana Society of American Foresters Winter Meeting, Louisiana Tech University, Ruston, LA, January 23, 2020.
- 2019-*Providing Aesthetics and Food Using Edible Landscaping*. Back to Your Roots: A Sustainable Agricultural Masters Series, Louisiana Tech University, Ruston, LA, March 9, 2019.
- 2018-*Recovery of the Space Shuttle Columbia*. Louisiana Forestry Association Convention, Shreveport, LA, August 30, 2018.
- 2017-*Weed Control in Forest Tree Seedling Nurseries*. Re-certification for Category 2a and 2b Forestry Pesticide Application, Louisiana Evacuation Center, Alexandria, LA, June 29, 2017.
- 2017-*Using hydroponics to understand the “root” of tree seedling quality*. Sigma Xi Scientific Research Society, Louisiana Tech University, Ruston, LA, April 19, 2017.
- 2016-*Weed Control in Forest Tree Seedling Nurseries*. Re-certification for Category 2a and 2b Forestry Pesticide Application, Dean Lee Research Station, Alexandria, LA, July 6, 2016.
- 2016-*Longleaf Pine Hybridization: What we know and approaches to gain a better understanding*. National Advanced Silviculture Program, USDA Forest Service, Southern Research Station, Pineville, LA, May 2, 2016.
- 2016-*Techniques to Maintain Raised Beds each Growing Season*. 2016 Home Gardening Workshop, Louisiana Tech University, School of Agricultural Sciences and Forestry, Ruston, LA, February 13, 2016.
- 2016-*Using Raised Beds and Containers to Grow Vegetables: Gardening You Can Do at Home*. 2016 Home Gardening Workshop, Louisiana Tech University, School of Agricultural Sciences and Forestry, Ruston, LA, February 13, 2016.
- 2015-*Weed Science and Proper Lawn Care*. Northeast Louisiana Master Gardeners Training Program, West Monroe, LA, April 23, 2015.
- 2015-*It’s time we had this talk, do you know where baby trees come from?* School of Biological Sciences’ Seminar Series, Louisiana Tech University, Ruston, LA, March 2, 2015.
- 2015-*Organic Vegetable Gardening Techniques*. 2015 Home Gardening Workshop, Louisiana Tech University, Department of Agricultural Sciences, Ruston, LA, February 21, 2015
- 2015-*Pests and Problems Associated with Growing Tomatoes*. 2015 Home Gardening Workshop, Louisiana Tech University, Department of Agricultural Sciences, Ruston, LA, February 21, 2015.
- 2014-*Basic Botany*. North Central Louisiana, Lincoln Parish Master Gardeners Training Program, Louisiana Tech University, Ruston, LA, August 27, 2014.
- 2014-*Mycorrhizae: beneficial root fungi*. North Central Louisiana, Lincoln Parish Master Gardeners Monthly Meeting, Louisiana Tech University, Ruston, LA, May 6, 2014.
- 2014-*The essential plant nutrients: functions, deficiencies, availability, and use in fertilizers*. Advanced Continuing Education Course, Northeast Louisiana Master Gardeners, West Monroe, LA, March 27, 2014.

- 2014-*Identification of common weeds in Louisiana gardens*. 2014 Home Gardening Workshop, Louisiana Tech University, Department of Agricultural Sciences, Ruston, LA, February 8, 2014
- 2014-*Weed control methods*. 2014 Home Gardening Workshop, Louisiana Tech University, Department of Agricultural Sciences, Ruston, LA, February 8, 2014.
- 2014-*Outplanting container-grown pine seedlings in the southern United States*. Ag Expo Forestry Forum, West Monroe, LA, January 17, 2014.
- 2013-*Seeds: How they do their thing*. Northeast Louisiana Master Gardeners, West Monroe, LA, October 8, 2013.
- 2013-*Basic Botany*. Winn Parish Master Gardeners Training Program, Winnfield, LA, August 20, 2013.
- *Recovery of the Space Shuttle Columbia*.
  - Louisiana Tech University, Chemistry & Physics Science Seminar, May 9, 2019
  - Louisiana Tech University, Lomax Hall, January 31, 2018 (15<sup>th</sup> Anniversary)
  - Louisiana Tech University, Faculty/Staff Luncheon, March 18, 2014
  - St. Thomas Catholic Church, Men's Club Meeting, Ruston, LA, February 17, 2014
  - Department of Horticulture, Auburn University, February 5, 2010
  - Kiwanis Club, Pineville, LA, April 2003
  - Dry Prong Junior High School, (> 100 7<sup>th</sup> graders), Dry Prong, LA, March 2003

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#### POSTER PRESENTATIONS

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(some listed under advised student presentations)

- 2019-Olatinwo, R., D.P. Jackson, S. Sung, A. Mangini, B. Strom, and J.P. Barnett. *Genetic Markers for Identification of Southern Pine Species*. 20<sup>th</sup> Biennial Southern Silviculture Research Conference, Shreveport, LA, March 12-13, 2019.
- 2015-Adams, H.L., W.B. Patterson, D.P. Jackson, and W. Palmer. *Use of Innovative Technology for Plant Identification at the John D. Griffin Horticultural Garden and Ponds*. College of Applied and Natural Sciences Research Symposium, Louisiana Tech University, April 16, 2015.
- 2013-Enebak, S.E., T.E. Starkey, D.P. Jackson, and M. Quicke. *USDA-ARS MBr Alternative Area-wide Project-South Atlantic region: Forest Tree Nurseries: A 5-year Summary*. Southeastern Society of American Foresters Annual Meeting, January 27-29, 2013, Mobile, AL.
- 2010-Jackson, D.P., S. Enebak, and D. South. *The effects of Pythium spp. and cold storage on the root growth potential of loblolly and slash pine seedlings*. Southeastern Society of American Foresters Annual Meeting, February 8, 2010, Auburn, AL.
- 2009-Jackson, D.P., S. Enebak, and D. South. *The effects of Pythium spp. and cold storage on the root growth potential of loblolly and slash pine seedlings*. Southwide Forest Disease Workshop, June 29-July 2, 2009, Greenville, SC.
- 2009-Jackson, D.P., S. Enebak, D. South, and L. Eckhardt. *Pythium spp. affect longleaf pine seedling survival after cold storage*. Society of American Foresters National Convention, September 30-October 4, 2009, Orlando, FL.
- 2008-Jackson, D.P., S. Enebak, and D. South. *Does Pythium species reduce the quality and survival of southern pine seedlings after cold storage?* Biological and Environmental Summer Research Symposium. August 8, 2008, Auburn, AL.

- 2008-Jackson, D.P., S. Enebak, and D. South. *Does Pythium species reduce the quality and survival of southern pine seedlings after cold storage?* Graduate Student Research Forum, March 10-12, 2008, Auburn, AL.
- 2008-Jackson, D.P. and J.P. Barnett. *Germination of longleaf pine (Pinus palustris) seed treated with Thiram and oleoresin capsicum.* Southwide Forest Disease Workshop. January 15-17, 2008, Savannah, GA.

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#### ADVISED STUDENT RESEARCH PRESENTATIONS

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- 2022-Shoemaker, K.D. and D. P. Jackson. *An Evaluation of Sonderegger Pine Morphology.* College of Applied and Natural Sciences Research Symposium, Louisiana Tech University, April 14, 2022. (Graduate-Abstract-Oral)
- 2022-Bass, Kerington, Kyleigh Bass, Sonni Tarver, and D.P. Jackson. *Woodard Hall Beautification Project.* University of Louisiana System Academic Summit, April 8, 2022. (Undergraduate-Abstract-Oral)
- 2022-Bass, Kerington, Kyleigh Bass, Sonni Tarver, and D.P. Jackson. *Woodard Hall Beautification Project.* Louisiana Tech University Undergraduate Research and Service Learning Symposium, February 12, 2022. (Undergraduate-Abstract-Oral) (Placed in Top Five)
- 2021- Shoemaker, K.D., D.P. Jackson, and H. Adams. *Determining Patterns of Avian Herbivory Related to Loblolly and Longleaf Pine Seed Genetics.* College of Applied and Natural Sciences Research Symposium, Louisiana Tech University, April 15, 2021. (Undergraduate-Abstract-Oral)
- 2021-Shoemaker, K.D., D.P. Jackson, and H. Adams. *Influence of Container Color and Medium Depth on Avian Herbivory of Longleaf Pine Seed.* University of Louisiana System Academic Summit, March 26, 2021. (Undergraduate-Abstract-Oral)
- 2021-Shoemaker, K.D., D.P. Jackson, and H. Adams. *Influence of Container Color and Medium Depth on Avian Herbivory of Longleaf Pine Seed.* Louisiana Tech University, Undergraduate Research Symposium, February 18, 2021. (Undergraduate-Abstract-Oral) (Selected for 2021 ULS Academic Summit)
- 2019-Bolner, N.G and D. P. Jackson. *Evaluation of Sowing Methods to Determine the Role of Hypocotyl Extension in Longleaf Pine Seedling Development.* ULS Academic Summit, Grambling State University, April 12, 2019. (Undergraduate-Abstract-Oral)
- 2019-Bolner, N.G. and D.P. Jackson. *Media Depth in Container Cells Affects Longleaf Pine Germination Rates.* 20<sup>th</sup> Biennial Southern Silviculture Research Conference, Shreveport, LA, March 12, 2019. (Undergraduate-Abstract-Oral) (First Place)
- 2019-Bolner, N.G and D. P. Jackson. *Evaluation of Sowing Methods to Determine the Role of Hypocotyl Extension in Longleaf Pine Seedling Development.* Louisiana Tech Undergraduate Research Symposium, Louisiana Tech University, February 8, 2019. (Undergraduate-Abstract-Oral) (Third Place) (Selected to ULS Summit)
- 2019-Bolner, N.G. and D.P. Jackson. *Sowing Practices that Increase Longleaf Pine Germination Rates.* Louisiana Society of American Foresters Meeting, Pineville, LA, February 6, 2019. (Undergraduate Student-Poster) (First Place)

- 2018-Bolner, Nathan and D.P. Jackson. *Influence of Container Color, Media Depth, and Subsequent Light Availability on Stem Elongation of Longleaf Pine*. College of Applied and Natural Sciences Research Symposium, Louisiana Tech University, April 12, 2018. (Undergraduate-Abstract-Oral)
- 2018-Morin, Casey, J. Adams, G. Holley, A. Keith, D.P. Jackson, and N. Clay. *RatSectPro™ as a Natural Alternative for Red Imported Fire Ant Feeding and Nests*. Louisiana Academy of Sciences Meeting, Alexandria, LA, March 10, 2018. (Graduate Student-Oral)
- 2017-Moore, Barrett A. and D.P. Jackson. *Morphological Assessment of Longleaf Pine Seedlings to Understand Hybridization Patterns in Seed Crops over the Last Five Years*. College of Applied and Natural Sciences Research Symposium, Louisiana Tech University, April 20, 2017. (Undergraduate-Abstract-Oral)
- 2017-Reichley, Jacob A. and D.P. Jackson. *Effects of Plant Growth Regulators and Fertilizer Supply on Performance of Poinsettia Varieties*. Louisiana Tech University Student Research Symposium, February 10, 2017. (Graduate-Abstract-Oral)
- 2015-Babers, M. Aaron and D.P. Jackson. *Evaluation of Longleaf Pine (Pinus palustris) Seedlots for the Prevalence of Hybridization*. College of Applied and Natural Sciences Research Symposium, Louisiana Tech University, April 16, 2015. (Undergraduate-Abstract-Poster)
- 2015-Reichley, Jacob A. and D.P. Jackson. *Relating Christmas Glory® Poinsettia Growth to Applications of Nitrogen, Potassium, and Plant Growth Regulators*. College of Applied and Natural Sciences Research Symposium, Louisiana Tech University, April 16, 2015. (Graduate-Abstract-Oral)
- 2014-Bowe, Denise N. and D.P. Jackson. *Influence of Defoliation on the Root Growth Potential of Bareroot Loblolly Pine (Pinus taeda L.) Seedlings*. College of Applied and Natural Sciences Research Symposium, Louisiana Tech University, April 10, 2014. (Undergraduate-Abstract-Poster)
- 2014-Barnwell, Nicholas, S. Enebak, N. Lowenstein, S. Enloe, and D.P. Jackson. *Herbicide tolerance and weed control in understory species of longleaf pine (Pinus palustris) ecosystems*. School of Forestry and Wildlife Sciences' Advisory Council, Auburn University, April 1, 2014. (Graduate Student-Poster)

## TEACHING EXPERIENCE

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### Louisiana Tech University (CHI = Credit Hours Instructed)

- *AGSC 201-Microcomputer Applications (3)*-Introduction to microcomputers with specific applications in filing conventions, word processing, spreadsheets, and electronic communications. (CHI = 3)
- *AGSC 516C-Contemporary Topics (3)*
  - *Nutrition of Horticultural Plants (CHI = 3)*
  - *Tree Seedling Nursery Management (CHI = 3)*
  - *Practicum in College Teaching (CHI = 1)*
- *ANS 289C-Vegetable Gardening (3)*-Principles and practices involved in vegetable gardening which includes site preparation, cultural practices, pest management, and crop descriptions. (CHI = 3)
- *HNRS 100-Honors University Seminar (1)*-Orients new honors students to the university and honors program; identification and application of practical study techniques and attitudes associated with college success. (CHI = 2)

- *PLSC 101-Introduction to Plant Science (3)*-Basic plant biology and concepts of production and management of agronomic and horticultural crops. (CHI = 60)
- *PLSC 220-Greenhouse Management (3)*-Principles, practices, and operations involved in greenhouse and nursery production. (CHI = 24)
- *PLSC 284-Landscape Plants (3)*-Identification of common landscape plants; including culture, propagation, and use. (CHI = 21)
- *PLSC 301-Landscape Design and Contracting (3)*-Elements and principles of design for homes and small properties; contracting operations including estimates and bidding, plant installation, and maintenance. (CHI = 30)
- *PLSC 312-Turf Management (3)*-Establishment and management of turfgrasses in the southern United States. (CHI = 9)
- *PLSC 400-Special Problems A/B/C (1/2/3)*-Assignments in floral or landscape design, greenhouse or field production projects or other horticulture practica. (CHI = 38)
- *PLSC 422-Pest Management (3)*-Basic concepts of integrated pest management; pesticide laws and regulations, labeling, formulations, application procedures, environmental behavior, and safety. (CHI = 30)
- *PLSC 440-Nursery Management (3)*-Principles and practices involved in tree seedling culture in bareroot and container nurseries with evaluation of seedling quality and outplanting performance. (CHI = 3)

#### Auburn University

- *FOR 5151/6151-Forest Health Laboratory (1)*-Plant insect and disease identification and plant pathogen infection processes and symptomology. (CHI = 1)

#### Guest Lectures (LTU = Louisiana Tech University; AU = Auburn University)

- *Herbicide Management and Application*, WILD 314-Wildlife Habitat Evaluation and Management, LTU: October 12, 2021; October 1, 2019; October 4, 2016.
- *Forest Tree Seedling Nursery Management and Tree Seedling Quality*, FOR 111-Introduction to Forest and Wildlife Management, LTU: April 7, 2020; April 2, 2019; April 3, 2018.
- *Forest Tree Seedling Nursery Diseases*, FOR 313-Forest Pathology, LTU: May 9, 2018.
- *Insect Pests in Tree Seedling Nurseries*, FOR 312-Forest Entomology, LTU: October 25, 2017.
- *Visual Symptoms of Nutrient Deficiency in Conifers*, FOR 427-Advanced Soils and Nutrition, LTU: February 5, 2018; February 6, 2017; February 4, 2015; January 8, 2013.
- *Forest Tree Seedling Nursery Soils*, FOR 427-Advanced Soils and Nutrition, LTU: January 3, 2018; January 4, 2017; January 5, 2015.
- *Pesticide Ethics*, AGSC 301-Agricultural Ethics, LTU: April 23, 2013.
- *Weed Control in Forest Tree Nurseries*, FOR 5140/6140-Forest Regeneration and Seedling Production, AU: April 13, 2012.

#### Graduate Student Advising

#### Committee Chair

- M.S.-Kelsey Shoemaker, Louisiana Tech University; Thesis: *An evaluation of Sonderegger pine morphology*. (2021-Present)

Committee Member

- M.S.-Connor Gruntz, Louisiana Tech University; Thesis: *Effects of low-level additions of salt on plant uptake, senesced leaves, and decomposition*. (2019-2021).
- M.S.-Nicholas Barnwell, Auburn University; Thesis: *Herbicide tolerance and weed control of longleaf pine (*Pinus palustris*) native understory species*. (2013-2015).

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#### AWARDS AND RECOGNITION

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- 2021-University Senate Chair Award for outstanding contributions in higher education through teaching, research and service, Louisiana Tech University
- 2021-John D. Griffin Service Award, College of Applied and Natural Sciences, Louisiana Tech University
- 2020-Single Nominee from the College of Applied and Natural Sciences for the University Senate Chair Award for Louisiana Tech University
- 2019-Single Nominee from the College of Applied and Natural Sciences for the University Senate Chair Award for Louisiana Tech University
- 2018-2021-Norman and May Pipes Johnson Endowed Professorship in Horticulture
- 2016-Honorary State Future Farmers of America Degree, Louisiana FFA Association
- 2016-Scholarly Activity and Outreach Award, College of Applied and Natural Sciences, Louisiana Tech University
- 2015-Single Nominee from the College of Applied and Natural Sciences for the Virgil Orr Junior Faculty Award for Louisiana Tech University
- 2015-2018-Linnie McGee Leggett Endowed Professorship in Agriculture
- 2014-100/200 Level Teaching Award, College of Applied and Natural Sciences, Louisiana Tech University
- 2012-2015-Norman and May Pipes Johnson Endowed Professorship in Horticulture
- 2010-Outstanding Poster Presentation Award-Southeastern Society of American Foresters Annual Meeting-Auburn, AL
- 2009-Outstanding Graduate Student Presentation Award-South-wide Forest Disease Meeting-Greenville, SC
- 2009-Superior Oral Presentation-Graduate Scholars Forum-Auburn University
- 2009-Bryson L. James Ph.D. Student Research Competition Award-Southern Nursery Association Conference-Atlanta, GA
- 2007-Recognition for over 6 years of dedication to longleaf pine research-USDA Forest Service, Southern Research Station, Pineville, LA
- 2006-Appreciation for serving 3 years as Zone 6 Representative on the USDA Forest Service, Southern Research Station's Civil Rights Committee
- 2006-Recognition of five years of service in the government of the United States
- 2004-Appreciation for excellent support to the research program of SRS- 4111, USDA Forest Service, Southern Research Station, Pineville, LA

## PROFESSIONAL MEMBERSHIPS

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- Louisiana Nursery and Landscape Association
- Louisiana Society for Horticultural Research
- Auburn University Southern Forest Nursery Management Cooperative
- *Beta Beta Beta* Biological Honor Society (Inducted-2000)
- *Phi Eta Sigma* Honor Society (Inducted-1997)