

CURRICULUM VITAE

JOHN M. LHOTKA

Professor of Silviculture

University of Kentucky - Department of Forestry and Natural Resources

210 T.P. Cooper Building, Lexington, KY 40546-0073

john.lhotka@uky.edu (859) 257-9701

Distribution of Effort (DOE) Past 10 Years

Fiscal Year	Instruction	Research	Service	Administration
2024	43	27	5	25
2023	45	35	5	15
2022	45	40	15	0
2021	44	46	10	0
2020	44	43.5	12.5	0
2019	43	44.5	12.5	0
2018	41.5	57.5	1	0
2017	41	58	1	0
2016	40	55	5	0
2015	43.3	56.7	0	0

NARRATIVE OVERVIEW

I have been a faculty member at the University of Kentucky (UK) since June 2007 and an Professor of Silviculture since July 2023. I have built a silvicultural research program that promotes the sustainability and health of forest resources through research related to forest regeneration and growth with an emphasis on oak-dominated forests. I have served as lead or co-author on 66 scientific outputs including 43 refereed journal articles. I have been an active grant writer and served as PI or co-PI on projects obtaining \$1,912,781 of extramural funding including \$1,321,366 for research, \$364,681 for science delivery, and \$226,734 for teaching. Since joining the faculty at UK, my primary teaching assignments have been three required undergraduate courses within our accredited forestry B.S. program including FOR 350 Silviculture (4 credits), FOR 358 Silvicultural Practices (3 credits), and FOR 480 Integrated Forest Resource Management (5 credits). Beyond instruction, I have demonstrated strong commitments to forestry education in the US through significant professional service activities on national advisory committees. From 2015 through 2020, I served on the Society of American Foresters (SAF) national Committee on Accreditation and served as this committee's chair in 2018 and 2019. In January 2021, I was invited to continue my national service to SAF as a member of the Educational Policy Review Committee. Further related to service, I have played numerous key roles in departmental committees including chair of our Undergraduate Program Committee. Finally, I currently serve as a co-Editor-in-Chief for *Annals of Forest Science*, an international research journal devoted to multidisciplinary research for forests and wood that is part of the French National Research Institute for Agriculture, Food and Environment.

EDUCATION

Doctorate of Philosophy, 2006. Silviculture, Auburn University

Dissertation: Predicting light transmittance and seedling growth across a gradient of riparian forest canopy structures

Master of Science, 2001. Forest Resource Management, Southern Illinois University

Thesis: The effects of soil scarification on oak regeneration in upland and bottomland forests of southern Illinois

Bachelor of Science, *Summa Cum Laude*, 1999. Forestry, Southern Illinois University

PROFESSIONAL EXPERIENCE

Professor of Silviculture, University of Kentucky, Department of Forestry and Natural Resources, Lexington, KY, July 2023 to present

Associate Professor of Silviculture, University of Kentucky, Department of Forestry and Natural Resources, Lexington, KY, July 2014 to June 2023

Assistant Professor of Silviculture, University of Kentucky, Department of Forestry, Lexington, KY, June 2007 to June 2014

Research Associate, Auburn University, School of Forestry and Wildlife Sciences, Auburn, AL, June 2006 to April 2007

Graduate Research Assistant, Auburn University, School of Forestry and Wildlife Sciences, Auburn, AL, May 2003 to May 2006

Forester (GS-9), USDA Forest Service, Rocky Mountain Research Station, Moscow, ID, July 2001 to March 2003

Graduate Research Assistant, Southern Illinois University, Department of Forestry, Carbondale, IL, August 1999 to May 2001

Intern Forester, Tennessee Valley Authority, Land Between the Lakes, Golden Pond, KY, June 1999 to August 1999

Field Research Technician, Southern Illinois University, Department of Forestry, Carbondale, IL, May 1998 to August 1998

GRANTS

Funding Summary

<i>Funding Type</i>	<i>Amount</i>
Extramural Research	\$1,321,366
Extramural Science Delivery	\$364,681
Extramural Teaching	\$226,734
Intramural Research	\$49,774
Total Funding to Date: \$1,962,555	
Total Extramural Funding to Date: \$1,912,781	

Extramural Research (\$1,321,366)

Ochuodho, T.O., J.J. Muller, **J.M. Lhotka**, and W.R. Thomas. 2020-2023. Enhancing the awareness, knowledge, and understanding of sustainable maple syrup production practices among current and potential maple syrup producers. USDA Agricultural Marketing Service, Acer Access Development Program (USDA-AMS-TM-ACER-G-20-0006). \$499,440 (\$328,584 to co-PIs at University of Kentucky). J.M. Lhotka co-PI.

Lhotka, J.M., T.O. Ochuodho, and W.R. Thomas. 2019-2022. Informing management practice through understanding the effects of species and tree characteristics on maple sap volume and sugar content. Natural Resources Conservation Service, FY19 Conservation Innovation Grants (USDA-NRCS-KY-CIG-GEN0010198). \$ 74,335. J.M. Lhotka co-PI

To date this research has resulted in one presentation at a professional meeting and one science delivery publication.

Ochuodho, T.O., **J.M. Lhotka**, and W.R. Thomas. 2019-2022. Economic analysis of maple syrup production potential in Kentucky. Natural Resources Conservation Service, FY19 Conservation Innovation Grants (USDA-NRCS-KY-CIG-GEN0010198). \$75,000. J.M. Lhotka co-PI

To date this research has resulted in one presentation at a professional meeting.

Stringer, J.W., **J.M. Lhotka**, M. Contreras, and M.J. Lacki. 2017-2019. Silvicultural treatments and effects on vertical and horizontal stand structure in forested ecosystems of eastern Kentucky: Response of *Myotis* bats during the staging and maternity seasons. Imperiled Bat Conservation Fund (IBCF), U.S. Fish and Wildlife Service, Kentucky Ecological Services Field Station. \$150,935. J.M. Lhotka co-PI

Lhotka, J.M., C.D. Barton, and J.W. Stringer. 2015-2017. Effect of grading technique on productivity of high-value tree species in reforested surface mine lands. U.S. Department of Interior, Applied Science Program Cooperative Agreements Related to Coal Mining and Reclamation. \$174,765. J.M. Lhotka PI

J.M. Lhotka co-directed M.S. student completing the project. To date this research has resulted in one M.S. thesis, one peer-reviewed journal publication, and five presentations at professional meetings.

Lacki, M.J., J.W. Stringer, **J.M. Lhotka**, and M. Contreras. 2014-2017. Effect of silvicultural treatments on vertical stand structure in forested ecosystems of the Appalachian Mountain Region: Implications for foraging and roosting behavior of *Myotis* bats during the staging, maternity, and swarming seasons. The Forestland Group, LLC. \$150,000. J.M. Lhotka co-PI

J.M. Lhotka co-directed M.S. student completing the project. To date this research has resulted in one M.S. thesis, one peer-reviewed journal publication, and one peer-reviewed journal publication in review.

Lhotka, J.M. 2010-2011. Crosswalk and develop GIS mapping applications and accomplishment monitoring geospatial database. Commonwealth of Kentucky, Energy and Environment Cabinet, Division of Forestry. \$6,000. J.M. Lhotka PI

Lhotka, J.M. and J.W. Stringer. 2009-2010. Evaluating seedling development, stand structure, and understory microenvironment six growing seasons following midstory removal. USDA Forest Service, Southern Research Station, Forestry Research (Federal Domestic Assistance Number: 10.652). \$14,435. J.M. Lhotka PI

J.M. Lhotka directed two M.S. students (Parrott and Craig) whose work was supported by this project. To date, this research has resulted in two M.S. theses, two peer-reviewed journal articles, one non-refereed proceedings paper, and four presentations at professional meetings.

Barton, C.D., **J.M. Lhotka**, R.C. Warner, C.T. Agouridis, D.H. Graves and S. Fei. 2008-2010. Techniques for establishing woody biomass plantations on surface mines as feedstocks for energy production. Kentucky Governor's Office of Energy Policy: Energy R&D Program (08-GOEP-01). \$170,773. J.M. Lhotka co-PI

J.M. Lhotka directed M.S. student (Brinks) completing the project. This research has resulted in one M.S. thesis, one refereed journal article, one refereed proceedings paper, and three presentations at professional meetings.

Lhotka, J.M. and J.W. Stringer. 2008. Evaluating seedling development, stand structure, and understory microenvironment six growing seasons following midstory removal. USDA Forest Service, Southern Research Station, Forestry Research (Federal Domestic Assistance Number: 10.652). \$5,683. J.M. Lhotka PI

J.M. Lhotka supervised field technician supported by this project. Project yielded one refereed proceedings paper.

Extramural Science Delivery (\$364,681)

Lhotka, J.M. and J.J. Muller. 2023-2024. Subaward through Virginia Polytechnic Institute and State University (J.F. Munsell, Project Director) for US Forest Service National Advanced Silviculture Program (NASP) - Session 4 Advanced Silviculture Module for NASP 17 (2023-2024). \$28,547 subaward to co-PI J.M. Lhotka

The USDA Forest Service National Advanced Silviculture Program (NASP) consists of four national core modules taught over a 9-week period providing graduate-level instruction in silviculture and forest ecology to Forest Service employees seeking to be certified as silviculturists. Approximately 35 Forest Service employees from across the US participate in

NASP each year. Co-PIs Lhotka and Muller develop and implement science delivery and educational activities associated with Module 4, Advanced Silviculture Topics.

Lhotka, J.M and J.J. Muller. 2022-2023. Subaward through Virginia Polytechnic Institute and State University (J.F. Munsell, Project Director) for US Forest Service National Advanced Silviculture Program (NASP) - Session 4 Advanced Silviculture Module for NASP 16 (2022-2023). \$26,205 subaward to co-PI J.M. Lhotka

Lhotka, J.M and J.J. Muller. 2021-2022. Subaward through Virginia Polytechnic Institute and State University (J.F. Munsell, Project Director) for US Forest Service National Advanced Silviculture Program (NASP) - Session 4 Advanced Silviculture Module for NASP 15 (2021-2022). \$18,765 subaward to co-PI J.M. Lhotka

Lhotka, J.M, J.J. Muller, and J.W. Stringer. 2020-2021. Subaward through Virginia Polytechnic Institute and State University (J.F. Munsell, Project Director) for US Forest Service National Advanced Silviculture Program (NASP) - Session 4 Advanced Silviculture Module for NASP 14 (2020-2021). \$21,935 subaward to co-PI J.M. Lhotka

Stringer, J.W., E.V. Crocker, **J.M. Lhotka**. 2018-2021. Upland Oak Sustainability and Management Project. Kentucky Division of Forestry contract associated with the USDA Forest Service - R8, FY18 Landscape Scale Restoration Program. \$269,229. J.M. Lhotka co-PI

This project is aligned with the White Oak Initiative and involves work aiding regional efforts on white oak conservation planning and science delivery to forest management professionals. To date, work by J.M. Lhotka has included three science delivery documents presenting oak silvicultural practice guidelines.

Extramural Teaching (\$226,734)

Crocker, E.V., M. Arthur, L. Rieske-Kinney, C. Sass, M. Williams, **J.M. Lhotka**, J. Christian, and C.D. Nelson. 2017. Development of an urban and community forestry undergraduate certificate. USDA-NIFA FY 2017 Higher Education Challenge (HEC) Grants Program. \$149,734.

Bullard, S.H., D.W. Cremeans, T.L. Cushing, S. Fei, **J.M. Lhotka**, and L.R. Lhotka. 2008-2010. Reviving traditional forestry with HP technology. 2008 HP Technology for Teaching Higher Education Award. \$77,000

J.M. Lhotka assumed the project director role in May 2009 and taught the two primary courses involved in this project, FOR 350 and FOR 480

Intramural Research (\$49,774)

Sena, K.L., H. Wilson, J. Saylor, J.J. Cox, **J.M. Lhotka**. 2020-2021. Twenty years of urban reforestation in Lexington. 2020-2021. University of Kentucky, 2020 Sustainability Challenge Grant program. \$41,317. J.M. Lhotka co-PI

This research has resulted in one peer-reviewed journal article.

Lhotka, J.M. Research Activity Award, \$570, Spring 2017, awarded by University of Kentucky, College of Agriculture, Food, and Environment

Lhotka, J.M. and S. Fei. Barnhart Fund Award, \$1,000, 2010, awarded by University of Kentucky, College of Agriculture

Lhotka, J.M. Research Activity Award, \$1,500, Spring 2009, awarded by University of Kentucky, College of Agriculture

Lhotka, J.M. Research Activity Award, \$3,700, Fall 2008, awarded by University of Kentucky, College of Agriculture

Lhotka, J.M. Research Activity Award, \$1,000, Spring 2008, awarded by University of Kentucky, College of Agriculture

Lhotka, J.M. Research Activity Award, \$687, Fall 2007, awarded by University of Kentucky, College of Agriculture

Other Research Efforts

Lhotka, J.M. 2018 to present. Informing white oak silvicultural practice through study of growth dynamics in early-, mid-, and late-rotation stands. University of Kentucky Agricultural Experiment Station Project KY009037

Lhotka, J.M., C.D. Nelson, and A.G. Abbott. 2017 to present. Quantifying the effects of climate, silvicultural disturbance, and genetics on the temporal growth response of white oak
J.M. Lhotka is co-PI coordinating the integration tree-ring analysis, long-term plot data, and genetic sampling to understand how white oak climate-growth relationships are affected by thinning method and genetic relatedness among the sample tree population.

Lhotka, J.M. 2013 to 2018. Silvicultural approaches to enhance the resiliency of oak-dominated forests to disturbance. University of Kentucky Agricultural Experiment Station Project KY009027

Lhotka, J.M. and T.F. Hutchinson. 2013 to present. Modeling long-term stand density and growth relationships in upland oak stands of Ohio and Kentucky
J.M. Lhotka is the PI directing the analysis of four USDA Forest Service stand density studies that include sixty years of tree growth and yield data. To date this research has resulted in one peer-reviewed journal publication and one presentation at a professional meeting.

Lhotka, J.M. and J.W. Stringer. 2012 to present. Formulating an expanding-gap irregular shelterwood (*Femelschlag*) system for oak dominated stands
J.M. Lhotka is the project PI and is leading the development of a gap-based silvicultural practice designed to help address the oak regeneration issues present within the Central Hardwood Forest Region of the US. J.M. Lhotka directed two M.S. students (Patterson and Gauthier) whose work supported this project. To date this research has resulted in

one peer-reviewed journal publication, two M.S. theses, and three presentations at professional meetings

Lhotka, J.M. 2008 to 2013. Use of underplanting to enhance the health and sustainability of oak-dominated ecosystems in Kentucky and the Central Hardwood Region. University of Kentucky Agricultural Experiment Station Project KY009022

Other Research Proposals Submitted

Extramural Submitted Not Funded

Lhotka, J. M. (Project Director), E.V. Crocker, B.O. Knapp, C.D. Nelson, T.O. Ochuodho, N.C. Poudyal, M.R. Saunders, M.E. Staton. 2019. Advancement of Resilient and Sustainable Forestry Systems for the Eastern US Oak Resource. USDA-NIFA Sustainable Agricultural Systems Program A9201 (USDA-NIFA-AFRI-006739). \$9,970,240.

Lhotka, J.M., M.R. Saunders, C.D. Nelson, M.V. Coggeshall. 2019. Examining Genetic and Environmental Interactions Driving White Oak Growth Relationships: An Application of Individual-Tree Models Developed from Provenance/Progeny Trials. Hardwood Tree Improvement and Regeneration Center (HTIRC) Grant Program - 2019. \$142,968.

Lhotka, J. M. (Project Director), M.A. Contreras, E.V. Crocker, C.D. Nelson, M.R. Saunders, M.E. Staton, J.W. Stringer. 2018. Sustaining Resilient Forest Industries and Prosperous Rural Communities through Advanced Forestry Systems for the Oak Resource, USDA-NIFA Sustainable Agricultural Systems Program (A9201). \$9,969,817.

Barton, C.D. C.T Agouridis, K. Jacobson, **J.M. Lhotka**, T.O. Ochuodho. 2017. Integrated Agroenergy Production Systems for Economic and Ecological Transition on Rural Marginal Land. National Science Foundation, CBET-Track 3 Innovations at the Nexus of Food, Energy and Water Systems (NSF 17-530). \$2,489,772.

Stringer, J.W., **J.M. Lhotka**, M. Contreras, C.D. Barton, C.T. Agouridis, and D. Colliver. 2016. Developing a Sustainable Woody Bioenergy System for the Appalachian Coal Basins. Subaward part of Montana Tech of the University of Montana (J.P. Downey, Project Director) EPSCoR Track-2 project titled "RII Track-2 FEC: Center for Sustainable Rural Development". Research Infrastructure Improvement Program: Track-2 Focused EPSCoR Collaborations (NSF 16-511). \$1,109,393

Carlson, J.E., **J.M. Lhotka**, S. Schlarbaum, K.L. Shumaker, J.L. Wegrzyn. 2015. Landscape genomics of responses to environmental stress and forest management activities in oak-dominated forests. National Science Foundation, Plant Genome Research Project (15-548). \$3,959,657 (\$983,204 subaward to co-PI **J.M. Lhotka**)

Lhotka, J.M. and S.J. Price. 2015. Summer undergraduate fellowships in the science and management of Appalachian forest ecosystems. NIFA Agricultural and Food Research Initiative (USDA-NIFA-AFRI-004797), Undergraduate Research and Extension Experiential Learning Fellowship. \$286,012

Keyser, T.L., C.C. Kern, C.R. Webster, **J.M. Lhotka**, and S.J. Price. 2014. Sustaining productivity and a diversity of species with management strategies based on natural disturbance and ecological theory. FY 2014 National Institute of Food and Agriculture, Agriculture and Food Research Initiative (AFRI): Foundational Program (USDA-NIFA-AFRI-004412). \$491,070 (\$195,437 subaward to co-PIs S.J. Price and **J.M. Lhotka**)

Stringer, J.W., **J.M. Lhotka**, M. Contreras, G.A. Stainback, R. Smith, and T. Mueller. 2013. Toyota sustainable biomass initiative. Toyota Motor Engineering & Manufacturing North America, Inc., K.M. Butt, Chief Environmental Officer. \$840,216

Price, S.J. and **J.M. Lhotka**. 2013. Integrated studies of disturbance in an Appalachian forest ecosystem, the University of Kentucky's Robinson Forest. National Science Foundation, Research Experiences for Undergraduates (NSF 13-542). \$350,721

Price, S.J. and **J.M. Lhotka**. 2012. REU site: Forest ecology and natural resource management in Appalachia. National Science Foundation, Research Experiences for Undergraduates (NSF 12-569). \$337,112

Lhotka, J.M., C.D. Barton, and L. Liang. 2012. Subaward for Purdue University (S. Fei, Project Director) Coordinated Agricultural Project (CAP) titled "Optimizing climate change mitigation and adaptation in central hardwood forests". Regional Approaches for Adaptation to and Mitigation of Climate Variability and Change (USDA-NIFA-AFRI-003537). \$778,906 (\$205,400 to J.M. Lhotka)

Lhotka, J.M., S. Fei, G.A. Stainback, and J. Schieffer. 2011. A fuzzy logic based GIS tool for locating economically viable energy crop plantations. Sun Grant Program, Southeastern Region, 2010 Competitive Grants Program. \$90,621

Lhotka, J.M., J.W. Stringer, and T. Conners. 2010. The effect of silvicultural practices on the yield of short rotation woody plantations in north-central Kentucky. Encapital Inc., Ron Reilly, CEO. \$209,500

Lhotka, J.M., C.D. Barton, C. Agouridis, and R.C. Warner. 2009. Using short-rotation technologies to enhance woody feedstock production on reclaimed surface mines in eastern Kentucky. Kentucky Renewable Energy Consortium, 2009 Competitive Grants Program. \$73,121

Lhotka, J.M., J.W. Stringer, M.A. Arthur, and E. Seekamp. 2009. Forest harvesting for renewable bioenergy in the central hardwood region: Impacts to forest ecosystem services and social barriers to implementation. FY 2009 Agriculture and Food Research Initiative Competitive Grants Program (USDA-CSREES-AFRI-002010), Managed Ecosystems program. \$498,952

Fei, S., C.D. Barton, M.A. Arthur, J.W. Stringer, and **J.M. Lhotka**. 2009. Spatial and temporal dynamics of invasive plants and their impact on ecosystem services in Robinson Forest following forest management. FY 2009 Agriculture and Food Research Initiative

Competitive Grants Program (USDA-CSREES-AFRI-002010), Biology of Weedy and Invasive Species in Agroecosystems program. \$499,858

Lhotka, J.M., C.D. Barton, and J.W. Stringer. 2009. Effect of grading technique and forest thinning on productivity of high-value tree species in reforested surface mine lands. U.S. Department of Interior, 2009 National Technology Transfer Team Applied Science Program (DOI-SM-255-09). \$167,402

Stringer, J.W. and **J.M. Lhotka**. 2009. Hardwood Forestry Fund grant program. \$26,000

Lhotka, J.M., C.D. Barton, R.C. Warner, C.T. Agouridis, T.L. Cushing, S. Fei, M.D. Coleman. 2007. Techniques for enhancing productivity of woody feedstock plantations on reclaimed surface mines. USDA/DOE Biomass Research and Development Initiative (RD-RBP-Biomass-2007). \$732,590

Intramural Submitted Not Funded

Lhotka, J.M. 2010. Regenerating oak dominated forests using gap-based silvicultural systems. USDA-CSREES Precision Resource Management Phase VI Special Grant. \$49,858

Lhotka, J.M., M.A. Arthur, and R.L. Sherriff. 2008. Impact of forest harvesting on the invasion of non-native plant species. USDA-CSREES Precision Resource Management Phase IV Special Grant. \$74,716

Pre-proposals Submitted Not Invited

Lhotka, J.M., C.D. Barton, M.A. Contreras, G.A. Stainback, J.W. Stringer, and R.B. Rummer. 2012. Developing a sustainable woody bioenergy system for Appalachian coal basins. Biomass Research and Development Initiative (DE-FOA-0000657)

Lhotka, J.M., C.D. Barton, G. Halich, D. van der Lelie, and R.J. Rousseau. 2009. Enhancing woody feedstock production on reclaimed surface mines through application of short-rotation technologies, FY 2009 USDA/DOE Biomass Research and Development Initiative (DE-PS36-09GO99016)

Letter of Intent Submitted Not Invited

Stainback, G.A., J. Schieffer, **J.M. Lhotka**, and M. Contreras. A policy, economic, and spatial analysis of bioenergy feedstock production in northern Kentucky. FY 2012 Agriculture and Food Research Initiative Competitive Grants Program (USDA-NIFA-AFRI-A6122), Sustainable Bioenergy program

Lhotka, J.M., M.A. Arthur, and B.D. Lee. 2008. Impact of forest harvesting on the invasion of non-native weedy species. National Research Initiative Program (USDA-CSREES-NRI-001030), Biology of Weedy and Invasive Species in Agroecosystems program

PUBLICATIONS

† Indicates corresponding author

Underline indicates graduate student or staff member who participated under my supervision

Journal Impact Factor (JIF) from Journal Citation Reports® published by Clarivate Analytics

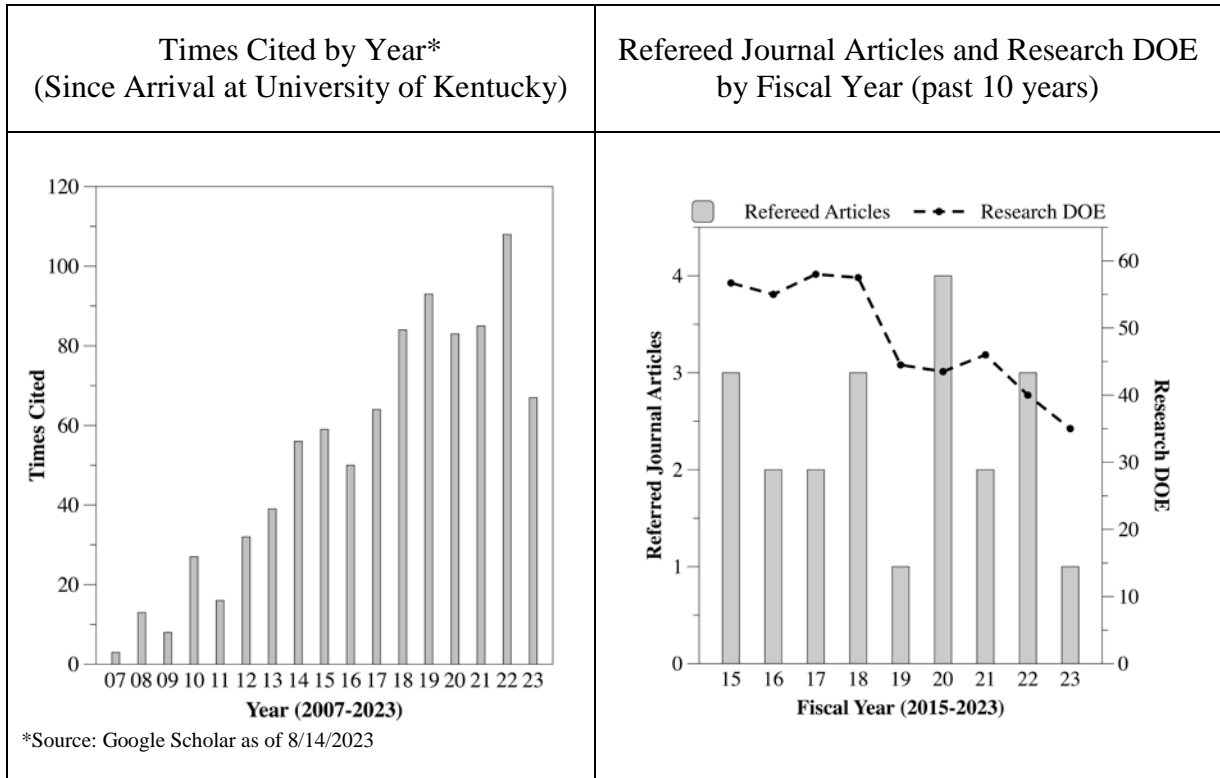
Summary of Publication Metrics

Total Scholarly Publications: 66

Refereed Journal Articles: 43

H-index: 18 (Google Scholar as of 8/14/2023)

Total citations: 915 (Google Scholar as of 8/14/2023)



Refereed Journal Articles (43)

Sena, K.L.†, Z.J. Hackworth, J. Maugans, and **J.M. Lhotka**. 2023. Twenty years of urban reforestation: Overstory development structures understory plant communities in Lexington, KY, USA. *Sustainability* 15(33): 1985. (JIF: 3.90)

Vogel, P.J., **J.M. Lhotka**†, and J.W. Stringer. 2022. Long-term effects of crop tree release on growth and quality in white-oak (*Quercus alba* L.)-dominated stands. *Forest Science* 68(3): 343-352. (JIF: 1.664)

Patterson, C.P., Z.J. Hackworth, **J.M. Lhotka**†, and J.W. Stringer. 2022. Light and regeneration patterns following silvicultural gap establishment in *Quercus* dominated stands of the northern Cumberland Plateau, USA. *Forest Ecology and Management* 505: 119871. (JIF: 3.558)

Arant, P.L., M.J. Lacki[†], **J.M. Lhotka**, and J.W. Stringer. 2022. Summer populations of northern long-eared bat in an Eastern Kentucky forest following arrival of white-nose syndrome. *The American Midland Naturalist* 187(1): 71-83 (JIF: 0.735)

Sena, K.L.[†], Z.J. Hackworth, and **J.M. Lhotka**. 2021. Forest development over a twenty-year chronosequence of reforested urban sites. *Forests* 12(5): 614. (JIF: 2.634)

Sena, K.L.[†], K.M. Yeager, C.D. Barton, **J.M. Lhotka**, W.E. Bond, and K.J. Schindler. 2021. Development of mine soils in a chronosequence of forestry-reclaimed sites in Eastern Kentucky. *Minerals* 11(4): 422. (JIF: 2.644)

Hackworth, Z.J., **J.M. Lhotka**[†], and J.W. Stringer. 2020. Midstory removal facilitates growth but reduces competitiveness of oak reproduction prior to and after shelterwood establishment cutting. *Forest Science* 66(3): 371-381. (JIF: 1.664)

Kara, F.[†], and **J.M. Lhotka**. 2020. Climate and silvicultural implications in modifying stand composition in mixed fir-pine stands. *Journal of Sustainable Forestry* 39(5): 511-525. (JIF: 1.242)

Dement, W.T., Z.J. Hackworth, **J.M. Lhotka**[†], C.D. Barton. 2020. Plantation development and colonization of woody species in response to post-mining spoil preparation methods. *New Forests* 51: 965–984. (JIF: 1.598)

Kara, F.[†] and **J.M. Lhotka**. 2020. Comparison of unmanaged and managed Trojan Fir-Scots pine forests for structural complexity. *Turkish Journal of Agriculture and Forestry* 44(1): 62-70. (JIF: 1.731)

Yang, Y.[†], W.H. Cai, J. Yang, M. White, **J.M. Lhotka**. 2018. Dynamics of post-fire aboveground carbon in a chronosequence of Chinese boreal larch forests. *Journal of Geophysical Research: Biogeosciences* 123(12): 3490-3506. (JIF: 3.480)

Hackworth, Z.J.[†], **J.M. Lhotka**, J.J. Cox, C.D. Barton, and M.T. Springer. 2018. First-year vitality of reforestation plantings in response to herbivore exclusion on reclaimed Appalachian surface-mined land. *Forests* 9(4): 222. (JIF: 2.116)

Lhotka, J.M.[†], R.A. Cunningham, and J.W. Stringer. 2018. Effect of silvicultural gap size on long-term species recruitment, growth, and volume yields in upland *Quercus* dominated stands. *Forestry* 91(4): 451-458. (JIF: 2.232)

Agha, M.[†], B.D. Todd, B. Augustine, **J.M. Lhotka**, L.J. Fleckenstein, M. Lewis, C. Patterson, J.W. Stringer, S.J. Price. 2018. Effects of gap-based silviculture on thermal biology of a terrestrial reptile. *Wildlife Research* 45(1): 72-81. (JIF: 1.290)

Kara, F.[†], E.F. Loewenstein, **J.M. Lhotka**, J.S. Kush. 2018. A Gingrich style stocking chart for longleaf pine (*Pinus palustris* Mill.) *Forests*. *Forest Science* 64(3): 307-315. (JIF: 1.782)

Lhotka, J.M. [†] 2017. Examining growth relationships in *Quercus* stands: An application of individual-tree models developed from long-term thinning experiments. *Forest Ecology and Management* 385: 65-77. (JIF: 2.826)

Lhotka, J.M. [†], D.L. Parrott, and C.M. Ruffner. 2016. A dendroecological investigation of an upland oak-dominated forest within the Grand Prairie region of Illinois. *Natural Areas Journal* 36(3): 310-322. (JIF: 0.659)

Nepal, S., M. Contreras [†], G.A. Stainback, and **J.M. Lhotka**. 2015. Quantifying the effects of biomass market conditions and policy incentives on economically feasible sites to establish dedicated energy crops. *Forests* 6(11): 4168-4190. (JIF: 1.449)

Lhotka, J.M. [†] and E.F. Loewenstein. 2015. Comparing individual-tree approaches for predicting height growth of underplanted seedlings. *Annals of Forest Science* 72(4): 469-477. (JIF: 1.536)

Shrestha, P., G.A. Stainback [†], P. Dwivedi, and **J.M. Lhotka**. 2015. Economic and life-cycle analysis of forest carbon sequestration and wood-based bioenergy offsets in the central hardwood region of United States. Submitted to *Journal of Sustainable Forestry* 34(3): 214-232. (JIF: n/a)

Nepal, S., M. Contreras [†], **J.M. Lhotka**, and G.A. Stainback. 2014. A spatially explicit model to identify suitable sites to establish dedicated woody energy crops. *Biomass and Bioenergy* 71: 245-255. (JIF: 2.975)

Craig, J.M., **J.M. Lhotka** [†], and J.W. Stringer. 2014. Evaluating initial responses of natural and underplanted oak reproduction and a shade tolerant competitor to midstory removal. *Forest Science* 60(6): 1164-1171. (JIF: 1.523)

J.M. Lhotka [†], and J.W. Stringer. 2013. Forest edge effects on *Quercus* reproduction within naturally regenerated mixed broadleaf stands. *Canadian Journal of Forest Research* 43(10):911-918. (JIF: 1.559)

Catron, J.F., G.A. Stainback [†], **J.M. Lhotka**, J.W. Stringer, and L. Hu. 2013. Financial and management implications of producing energywood in upland oak stands in Kentucky. *Northern Journal of Applied Forestry* 30(4):164-169. (JIF: 0.435)

Parrott, D.L., **J.M. Lhotka** [†], and J.W. Stringer. 2013. The effect of soil scarification on *Quercus* seedling establishment within upland stands of the Northern Cumberland Plateau. *Northern Journal of Applied Forestry* 30(3):125-130. (JIF: 0.435)

Leitch, Z.J., **J.M. Lhotka** [†], G.A. Stainback, and J.W. Stringer. 2013. Private landowner intent to supply woody feedstock for bioenergy production. *Biomass and Bioenergy* 56:127-136. (JIF: 2.975)

- Lhotka, J.M.**[†], and E.F. Loewenstein. 2013. Development of three underplanted hardwood species seven years following midstory removal. *Southern Journal of Applied Forestry* 37(2):81-90. (JIF: 0.320)
- Lhotka, J.M.**[†] 2013. Effect of gap size on mid-rotation stand structure and species composition in a naturally regenerated mixed broadleaf forest. *New Forests* 44(3):311-325. (JIF: 1.636)
- Catron, J., G.A. Stainback[†], P. Dwivedi, and **J.M. Lhotka**. 2013. Bioenergy development in Kentucky: A SWOT-ANP analysis. *Forest Policy and Economics* 28:38-43. (JIF: 1.638)
- Parrott, D.L., **J.M. Lhotka**[†], J.W. Stringer, and D.N. Dillaway. 2012. Seven-year effects of midstory removal on natural and underplanted oak reproduction. *Northern Journal of Applied Forestry* 29(4):182-190. (JIF: 0.435)
- Parrott, D.L., **J.M. Lhotka**[†], S. Fei, and B.S. Shouse. 2012. Improving woody biomass estimation efficiency using double sampling. *Forests* 3(2):179-189. (JIF: 1.094)
- Lhotka, J.M.**[†] 2012. Height-diameter relationships in sweetgum (*Liquidambar styraciflua*) dominated stands. *Southern Journal of Applied Forestry* 36(2):98-106. (JIF: 0.320)
- Parrott, D.L., J.S. Brinks, and **J.M. Lhotka**[†]. 2012. Designing Nelder wheel plots for tree density experiments. *New Forests* 43(2):245-254. (JIF: 1.636)
- Lhotka, J.M.**[†], and E.F. Lowenstein. 2011. An individual-tree diameter growth model for managed uneven-aged oak-shortleaf pine stands in the Ozark Highlands of Missouri, USA. *Forest Ecology and Management* 261:770-778. (JIF: 2.826)
- Brinks, J.S., **J.M. Lhotka**[†], C.D. Barton, R.C. Warner, and C.T. Agouridis. 2011. Effects of fertilization and irrigation on American sycamore and black locust planted on a reclaimed surface mine in Appalachia. *Forest Ecology and Management* 261:640-648. (JIF: 2.826)
- Lhotka, J.M.**[†], and E.F. Loewenstein. 2009. Effect of midstory removal on understory light availability and the 2-year response of underplanted cherrybark oak seedlings. *Southern Journal of Applied Forestry* 33(4):171-177. (JIF: 0.320)
- Lhotka, J.M.**[†], and E.F. Loewenstein. 2008. An examination of species-specific growing space utilization. *Canadian Journal of Forest Research* 38(3):470-479. (JIF: 1.559)
- Lhotka, J.M.**[†], and E.F. Loewenstein. 2008. Influence of canopy structure on the survival and growth of underplanted seedlings. *New Forests* 35(1):89-104. (JIF: 1.636)
- Lhotka, J.M.**[†], and E.F. Loewenstein. 2007. A weighted relative density model applied to loblolly pine (*Pinus taeda* L.) stands. *African Journal of Agricultural Research* 2(7):300-304. (JIF: n/a)

Lhotka, J.M.[†], and E.F. Loewenstein. 2006. Indirect measures for characterizing light along a gradient of mixed-hardwood riparian forest canopy structures. *Forest Ecology and Management* 226(1-3):310-318. (JIF: 2.826)

Zaczek, J.J.[†], and **J.M. Lhotka**. 2004. Seedling reproduction established with soil scarification within an oak overwood after overstory removal. *Northern Journal of Applied Forestry* 21(1):5-11. (JIF: 0.435)

Lhotka, J.M.[†], and J.J. Zaczek. 2003. Effects of scarification disturbance on the seedling and midstory layer in a successional mixed-oak forest. *Northern Journal of Applied Forestry* 20(2):85-91. (JIF: 0.435)

Lhotka, J.M.[†], and J.J. Zaczek. 2003. Soil scarification effects on oak reproduction in two mixed-oak bottomland stands of Southern Illinois. *Southern Journal of Applied Forestry* 27(3):164-171. (JIF: 0.320)

Refereed Journal Editorials (2)

Dreyer, E.[†], A. Bolte, M. Ferretti, J.M. Leban, **J.M. Lhotka**, S.L. Liu, and V. Lesage. 2023. *Annals of Forest Science* promotes multidisciplinary research devoted to forests and wood in a changing world. *Annals of Forest Science* 80:8. (JIF: 3.0)

Dreyer, E.[†], J.M. Leban, S.L. Liu, A. Bolte, **J.M. Lhotka**, M. Ferretti, and V. Lesage. 2022. *Annals of Forest Science* promotes multidisciplinary research on forests and wood in a changing world and is now a full Open Access journal. *Annals of Forest Science* 79(1):1. (JIF: 2.583)

Refereed Government Documents (1)

Thunder, R., A.O. Conrad, C. Burdine, J. Yang, **J.M. Lhotka**, A.G. Abbott, and C.D. Nelson[†]. 2022. White oak (*Quercus alba* L.) microsatellite markers for genetic diversity studies. USDA Forest Service, Southern Research Station, Research Note SRS-RN-26. 7 p.

Books and Edited Volumes (1)

Fei, S., **J.M. Lhotka**, J.W. Stringer, K.W. Gottschalk, and G.W. Miller (eds.). 2011. *Proceedings of the 17th Central Hardwood Forest Conference*. USDA Forest Service, Newtown Square, PA. General Technical Report NRS-P-778. 678 p
Conference proceedings included 60 refereed research papers and 17 extended abstracts

Refereed Conference Proceedings (5)

Craig, J.M., **J.M. Lhotka**[†], and J.W. Stringer. 2013. Response of naturally regenerated and underplanted white oak (*Quercus alba* L.) seedlings six years following midstory removal. P. 365-372 in *Proceedings, 18th Central Hardwood Forest Conference.*, Miller, G.W., T.M. Schuler, K.W. Gottschalk, J.R. Brooks, S.T. Grushecky, B.D. Spong, and J.S. Rentch (eds.). USDA For. Ser., Northern Research Station, Newtown Square, PA. Gen. Tech. Rep. NRS-P-117.

Brinks, J.S., J.M. Lhotka[†], and C.D. Barton. 2011. One-year response of American sycamore (*Platanus occidentalis* L.) and black locust (*Robinia pseudoacacia* L.) to granular fertilizer applications on a reclaimed surface mine in eastern Kentucky. P. 306-313 in Proceedings of the 17th Central Hardwood Forest Conference, Fei, S., J.M. Lhotka, J.W. Stringer, K.W. Gottschalk, and G.W. Miller (eds.). USDA Forest Service, Northern Research Station, Newtown Square, PA. General Technical Report NRS-P-78

Parrott, D.L., J.M. Lhotka[†], and J.W. Stringer. 2011. Effects of midstory removal on underplanted black oak and white oak in the western Cumberland Plateau. P. 270-276 in Proceedings of the 17th Central Hardwood Forest Conference, Fei, S., J.M. Lhotka, J.W. Stringer, K.W. Gottschalk, and G.W. Miller (eds.). USDA Forest Service, Northern Research Station, Newtown Square, PA. General Technical Report NRS-P-78

Lhotka, J.M.[†], and J.J. Zaczek. 2003. The development of oak reproduction following soil scarification - implications for riparian forest management. P. 199-202 in Proceedings 13th Central Hardwood Forest Conference, Van Sambeek, J.W., J.O. Dawson, J. Ponder, F., E.F. Loewenstein, and J.S. Fralish (eds.). USDA Forest Service, North Central Research Station, St. Paul, MN. General Technical Report NC-234

Ruffner, C.M. [†], A. Trieu, S. Chandy, M.D. Davis, D. Fishel, G. Gipson, **J. Lhotka, K. Lynch, P. Perkins, S.L. van de Gevel, W. Watson, and E. White.** 2003. From savanna to campus woodlot: the historical ecology of farm woodlots in Southern Illinois. P. 333-342 in Proceedings 13th Central Hardwood Forest Conference, Van Sambeek, J.W., J.O. Dawson, J. Ponder, F., E.F. Loewenstein, and J.S. Fralish (eds.). USDA Forest Service, North Central Research Station, St. Paul, MN. General Technical Report NC-234.

Non-Refereed Conference Proceedings (5)

Lhotka, J.M.[†] and E.F. Loewenstein. 2013. A comparison of canopy structure measures for predicting height growth of underplanted seedlings. P. 289-293 in Proceedings of the 15th Biennial Southern Silvicultural Research Conference, Guldin, J.M. (ed.). USDA Forest Service, Southern Research Station, Asheville, NC. e-General Technical Report SRS-175

Cotton, C., C. Barton[†], **J. Lhotka, P. Angel, and D. Graves.** 2012. Evaluating reforestation success on a surface mine in Eastern Kentucky. P. 16-23 in National Proceedings: Forest and Conservation Nursery Associations - 2011, Haase, D.L., J.R. Pinto, and L.E. Riley (eds.). USDA Forest Service, Rocky Mountain Research Station, Fort Collins, CO. Proceedings RMRS-P-68

Lhotka, J.M.[†], and E.F. Loewenstein. 2006. Initial response of underplanted yellow poplar and cherrybark oak seedlings to four levels of mechanical midstory removal. P. 275-278 in Proceedings of the 13th Biennial Southern Silvicultural Research Conference, Conner, K.F. (ed.). USDA Forest Service, Southern Research Station, Asheville, NC. General Technical Report SRS-92

Lhotka, J.M.[†], J.J. Zaczek, and R.T. Graham. 2004. The influence of soil scarification on oak reproduction: Review and management considerations. P. 292-294 in Upland Oak

Ecology Symposium: History, Current Conditions, and Sustainability, Spetich, M.A. (ed.). USDA Forest Service, Southern Research Station, Asheville, NC. General Technical Report SRS-73

Lhotka, J.M.[†], and J.J. Zaczek. 2002. The use of soil scarification to enhance oak regeneration in a mixed-oak bottomland forest of southern Illinois. P. 401-404 *in* Proceedings of the 11th Biennial Southern Silvicultural Research Conference, Outcalt, K.W. (ed.). USDA Forest Service, Southern Research Station, Asheville, NC. General Technical Report SRS-48

Extended Abstracts in Non-Refereed Conference Proceedings (2)

Lhotka, J.M.[†], J.W. Stringer, J.M. Craig, and C.P. Patterson. 2019. Application of midstory removal to enhance oak regeneration potential within uniform and irregular shelterwood systems. P. 65-66 *in* Oak symposium: Sustaining oak forests in the 21st century through science-based management. Clark, S.L. and C.J. Schweitzer (eds.). USDA Forest Service, Southern Research Station, Asheville, NC. e-General Technical Report SRS-237

Craig, J.M., **J.M. Lhotka**[†], and J.W. Stringer. 2015. Six-year effect of midstory removal on white oak growth and biomass distribution and seedling response one year post-clipping. *in* Proceedings of the 17th Biennial Southern Silvicultural Research Conference. USDA Forest Service, Southern Research Station, Asheville, NC. e-General Technical Report SRS-203

Science Delivery and Extension Publications (7)

Lhotka, J.M.[†]. In Press. Soil scarification – Oak silvicultural practice technical guidelines University of Kentucky Cooperative Extension Service

Lhotka, J.M.[†], Z.J. Hackworth, J.W. Stringer. In Press. Gap-based regeneration – Oak silvicultural practice technical guidelines. University of Kentucky Cooperative Extension Service

Lhotka, J.M.[†], Z.J. Hackworth, J.W. Stringer. In Press. Midstory removal – Oak silvicultural practice technical guidelines. University of Kentucky Cooperative Extension Service

Hackworth, Z.J.[†], **J.M. Lhotka**, B. Thomas, and T.O. Ochuodho. 2022. Tree-level evaluation of red and sugar maple sap production characteristics in Kentucky. Kentucky Woodlands Magazine 15(1): 20-21

Lhotka, J.M.[†] and J.W. Stringer. 2013. Soil scarification to enhance oak seedling establishment. Kentucky Woodlands Magazine 8(3): 8-11

Parrott, D.L.[†], **J.M. Lhotka**, and J.W. Stringer. 2012. Using midstory removal to enhance oak development. Kentucky Woodlands Magazine 7(2): 16-17

Lhotka, J.M.[†] and J.W. Stringer. 2008. Improving oak regeneration through soil scarification and underplanting. Forest Landowner 67(6): 38-39

TEACHING AND ADVISING**Courses Taught*****FOR 350 Silviculture (4 credits)***

Semester	Enrollment	Course Evaluation* (College Mean)	Teaching Evaluation* (College Mean)
Fall 2023	16	-	-
Fall 2022	20	5.0 (4.3)	5.0 (4.5)
Fall 2021	18	4.4 (4.2)	4.2 (4.5)
Fall 2020	19	Not Available [#]	Not Available
Fall 2019	10	4.7 (4.3)	4.6 (4.3)
Fall 2018	16	4.8 (4.3)	4.7 (4.4)
Fall 2017	15	4.6 (4.2)	4.8 (4.3)
Fall 2016	12	4.73 (4.23)	4.82 (4.35)
Fall 2015	10	Not Available [#]	Not Available
Fall 2014	18	3.82 (3.37)	3.91 (3.42)
Fall 2013	23	3.6 (3.5)	3.6 (3.5)
Fall 2012	19	3.8 (3.4)	3.9 (3.4)
Fall 2011	18	3.5 (3.4)	3.5 (3.5)
Spring 2011	12	3.7 (3.4)	3.7 (3.5)
Spring 2010	10	4.0 (3.4)	3.9 (3.4)
Spring 2009	17	3.5 (3.3)	3.4 (3.4)

*Scale 0 to 5 from 2016 to present, 0 to 4 prior to 2016

[#]Not available – Scores not reported by UK when < 5 surveys are completed

FOR 358 Silvicultural Practices (3 credits, spring field semester course)

Semester	Enrollment	Course Evaluation* (College Mean)	Teaching Evaluation* (College Mean)
Spring 2023	17	5.0 (4.4)	5.0 (4.5)
Spring 2022	15	Not Available [#]	Not Available
Spring 2021	17	Not Available [#]	Not Available
Spring 2020	12	Not Available [#]	Not Available
Spring 2019	14	Not Available [#]	Not Available
Spring 2018	16	4.7 (4.2)	4.8 (4.4)
Spring 2017	11	Not Available [#]	Not Available
Spring 2016	8	Not Available [#]	Not Available
Spring 2015	14	3.89 (3.35)	3.89 (3.45)

Spring 2014	18	3.77 (3.31)	3.85 (3.39)
Spring 2013	20	3.9 (3.5)	4.0 (3.5)
Spring 2012	16	3.9 (3.4)	3.8 (3.5)

*Scale 0 to 5 from 2016 to present, 0 to 4 prior to 2016

#Not available – Scores not calculated by UK when < 5 surveys are completed

FOR 480 Integrated Forest Resource Management (5 credits, forestry capstone course).

Lead instructor and co-taught (50% responsibility) with L.A. Vickers (2023 to present), J.M. Ringe (2009 to 2022) and T.L. Cushing (2008)

Semester	Enrollment	Course Evaluation* (College Mean)	Teaching Evaluation* (College Mean)
Spring 2023	15	4.9 (4.4)	4.9 (4.5)
Spring 2022	18	Not Available [#]	Not Available
Spring 2021	10	Not Available [#]	Not Available
Spring 2020	13	Not Available [#]	Not Available
Spring 2019	15	Not Available [#]	Not Available
Spring 2018	12	Not Available [#]	Not Available
Spring 2017	9	Not Available [#]	Not Available
Spring 2016	14	3.4 (3.35)	3.6 (3.48)
Spring 2015	17	3.58 (3.35)	3.75 (3.45)
Spring 2014	20	3.5 (3.31)	3.72 (3.39)
Spring 2013	16	3.9 (3.4)	3.9 (3.5)
Spring 2012	11	3.9 (3.4)	3.7 (3.5)
Spring 2011	9	3.9 (3.4)	4.0 (3.5)
Spring 2010	17	3.9 (3.4)	3.9 (3.4)
Spring 2009	14	3.7 (3.3)	3.8 (3.4)
Spring 2008	7	2.9 (3.3)	3.1 (3.3)

*Scale 0 to 5 from 2016 to present, 0 to 4 prior to 2016

FOR 770 Ecology and Silviculture of Oak Dominated Forests (1 credit)

Semester	Enrollment	Course Evaluation* (College Mean)	Teaching Evaluation* (College Mean)
Fall 2014	7	3.4 (3.37)	3.4 (3.42)

*Scale 0 to 4

FOR 770 Continuous Cover Forestry (1 credit)

Semester	Enrollment	Course Evaluation* (College Mean)	Teaching Evaluation* (College Mean)
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Fall 2009	7	4.0 (3.3)	3.7 (3.4)
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*Scale 0 to 4

Graduate Independent Study Courses Taught

FOR 781 Special Problems in Forestry

Fall 2016, Topic: Forest stand dynamics, Enrollment: 1 (1 credit)

Fall 2015, Topic: Critique of silvicultural research papers, Enrollment: 1 (1 credit)

Spring 2015, Topic: Silviculture of upland oak stands, Enrollment: 1 (1 credit)

FOR 791 Research in Forestry

Spring 2022, Topic: Light Modeling with Forest Gaps, Enrollment: 1 (3 credits)

Fall 2011, Topic: Tree-ring analysis, Enrollment: 1 (2 credit)

Fall 2010, Topic: Design of tree density experiments, Enrollment: 1 (1 credit)

Undergraduate Independent Study Courses Taught

FOR 399 Field-Based Education in Forestry

Spring 2021, Topic: Forest Inventory and Stand Management Independent Study, Enrollment: 1 (3 credits)

Fall 2010, Topic: Advanced Forest Inventory Techniques, Enrollment: 1 (1 credit)

FOR 599 Independent Work in Forestry

Fall 2021, Topic: Silviculture of Upland Oak Stands, Enrollment: 1 (2 credits)

Spring 2020, Topic: Undergraduate Tree-Ring Methods and Research, Enrollment: 1 (3 credits)

Fall 2016, Topic: Advanced Silviculture, Enrollment: 2 (3 credits)

Spring 2016, Topic: Introduction to Tree-Ring Methods and Research, Enrollment: 1 (3 credits)

Spring 2011, Topic: Advanced Silviculture, Enrollment: 1 (3 credits)

Spring 2010, Topic: Advanced Silviculture, Enrollment: 2 (3 credits)

Guest Lectures

FOR 603 Foundations in Forestry, Wildlife and Natural Resource Sciences (3 credits)

Fall 2021, Responsible for one 3-hour class session on foundational scientific literature shaping contemporary forest management approaches, Enrollment: 8

FOR 602 Renewable Natural Resources in a Global Perspective (3 credits)

Fall 2021, Responsible for one 3-hour class session on plantation forestry in a global context, Enrollment: 12

Fall 2017, Responsible for two 50-minute class sessions on plantation forestry in a global context, Enrollment: 11

Fall 2015, Responsible for two 50-minute class sessions on plantation forestry in a global context, Enrollment: 11

Fall 2013, Responsible for two 50-minute class sessions on plantation forestry in a global context, Enrollment: 16

Fall 2011, Responsible for two 50-minute class sessions on plantation forestry in a global context, Enrollment: 15

Fall 2009, Responsible for two 50-minute class sessions on plantation forestry in a global context, Enrollment: 9

FOR 255 Forest Fire (1 credit)

Spring 2022, Responsible for one 50-minute class session on the role of prescribed fire in forest stand management, Enrollment: 28

FOR 357 Inventory and Measurements II (2 credits)

Introduction to TwoDog forest inventory software, February 3, 2012, February 15, 2013

FOR 375 Forest Mensuration (3 credits)

Introduction to TwoDog forest inventory software, May 19-20, 2008, May 26-27, 2009, May 25-26, 2010, May 23-24, 2011

FOR 376 Silvicultural Practices (2 credits)

Summer 2010, Co-instructor assisting during one week of this two-week field course, Enrollment: 12

Summer 2009, Co-instructor assisting during one week of this two-week field course, Enrollment: 14

FOR 425 Forest Management

Introduction to growth and yield modeling, September 26, 2007, October 1, 2007, September 24, 2008, and October 1, 2021

Graduate Student Advising and Committee Service

Current Graduate Students (1)

Zachary Hackworth, Ph.D. Forest and Natural Resource Sciences, Major Advisor

Completed Graduate Students (15)

Brooke Gauthier, M.S. Forest and Natural Resource Sciences, 2023, Major Advisor

Thesis: Eight-year regeneration response to gap-based irregular shelterwood practices in oak dominated stands near Berea, Kentucky

Philip Vogel, M.S. Forest and Natural Resource Sciences, 2020, Major Advisor

Thesis: Long-term effects of crop-tree release on the growth and quality of upland white oak stands

Publications: One refereed journal article

Currently: Forestry Technician, Berea College Forest

Katherine Love, M.S. Forest and Natural Resource Sciences, 2020, co-Major Advisor with J. Yang

Thesis: Assessing the climate water balance model's ability to predict soil moisture variability and species distribution of a forested watershed in the Northern Cumberland Plateau

Currently: GIS Technician, Florida Department of Agriculture and Consumer Services

Philip Arant, M.S. Forest and Natural Resource Sciences, 2020, co-Major Advisor with M.J. Lacki

Thesis: Effects of shelterwood and patch cut harvests on a post white-nose syndrome bat community in the Cumberland Plateau in eastern Kentucky

Publications: One refereed journal article, one refereed journal article in revision

Currently: Scientist, Environmental Solutions and Innovations

Rachel Thunder, M.S. Forest and Natural Resource Sciences, 2020, co-Major Advisor with J. Yang

Thesis: Effects of thinning regimes on genetic variation of white oak (*Quercus alba* L.) in upland oak forests of eastern Kentucky

Publications: One refereed government document in review

Joseph Frederick, M.S. Forest and Natural Resource Sciences, 2020, co-Major Advisor with C.D. Barton

Thesis: Evaluating reforestation options for surface mines in Appalachia

Zachary Hackworth, M.S. Forest and Natural Resource Sciences, 2018, co-Major Advisor with J.J. Cox

Thesis: Efficacy of herbivore exclusion on planted tree seedling vitality on a reclaimed surface mine in eastern Kentucky

Publications: One refereed journal article

Currently: Laboratory Technician Senior, University of Kentucky, Department of Forestry and Natural Resources

Wesley Dement, M.S. Forest and Natural Resource Sciences, 2017, co-Major Advisor with C.D. Barton

Thesis: An investigation of tree growth and woody vegetation colonization on a 19 year-old forestry reclamation site

Currently: Environmental Enforcement Specialist, Commonwealth of Kentucky

Clinton Patterson, M.S. Forest and Natural Resource Sciences, 2017, co-Major Advisor with J.W. Stringer

Thesis: Initial understory response to gap-based regeneration methods for mature upland oak forests

Publications: One refereed journal article

Currently: Forester, Berea College Forest

Russell Cunningham, M.S. Forestry, 2015, co-Major Advisor with G.A. Stainback

Thesis: Effects of regeneration opening size and simulated crop tree release on volume yields and economic value in oak-dominated stands

Publications: One refereed journal article

Currently: Forester, Domtar Paper Company

Prativa Shrestha, M.S. Forestry, 2013, co-Major Advisor with G.A. Stainback

Thesis: Carbon life-cycle and economic analysis of forest carbon sequestration and woody bioenergy production

Publications: One refereed journal article

Currently: Ph.D. student, Mississippi State University

Jared Craig, M.S. Forestry, 2012, Major Advisor

Thesis: Effects of midstory removal and shoot clipping on the growth and development of three oak species

Publications: One refereed journal article, one refereed proceedings paper, one non-refereed extended abstract,

Currently: State Forest Timber Management Administrator, Ohio Division of Forestry

Zachary Leitch, M.S. Forestry, 2012, Major Advisor

Thesis: Private landowner intent to supply forest biomass for energy in Kentucky

Publications: One refereed journal article

Currently: Director of Client Success, The Knowledge Coop

David Parrott, M.S. Forestry, 2011, Major Advisor

Thesis: Effects of midstory removal on black oak (*Quercus velutina*) and white oak (*Quercus alba*) regeneration

Publications: Two refereed journal articles, one refereed proceedings paper

Currently: Forester, Ohio Division of Forestry

Joshua Brinks, M.S. Forestry, 2010, Major Advisor

Thesis: Two year response of a woody biofuel plantation to intensive management on a reclaimed surface mine in eastern Kentucky

Publications: Two refereed journal articles, one refereed proceedings paper

Currently: Research Scientist, ISciences, L.L.C.

Graduate Committee Service (21)

Sixteen M.S. students, University of Kentucky, Department of Forestry and Natural Resources

One M.S. student, University of Kentucky, Department of Biology

One Ph.D. student, University of Kentucky, Department of Geography

One Ph.D. student, University of Kentucky, Department of Sociology

One Ph.D. student, University of Kentucky, Department of Biology

One Ph.D. student, Auburn University, School of Forestry and Wildlife Sciences

Graduate Student Awards (7)

David Parrott (2011), Jared Craig (2012), Prativa Shrestha (2013), Forestry Graduate Student Awards for Excellence in Research, Academic Performance, and Service, awarded by the University of Kentucky Department of Forestry

David Parrott, Outstanding Graduate Student Poster Award, 2011, awarded at the 16th Biennial Southern Silviculture Research Conference

David Parrott, Student Travel Scholarship, 2011, awarded by the 16th Biennial Southern Silviculture Research Conference committee

David Parrott, Outstanding Student Paper Award, 2010, awarded at 17th Central Hardwood Forest Conference

Joshua Brinks, Second Place Poster Presentation, 2009 University of Kentucky Graduate Student Interdisciplinary Conference

Research Staff Supervision

Zachary Hackworth, Laboratory Technician Senior, January 2019 to June 2023

Publications: Three refereed journal articles

David Parrott, Laboratory Technician Senior, August 2011 to March 2013

Publications: Two refereed journal articles, one extension publication

Undergraduate Student Research Mentorship

Eaton, D. 2016. The effect of silvicultural gap size on the growth rate of individual trees in a mixed broadleaf forest. Poster presented at the University of Kentucky Showcase of Undergraduate Scholars. April 27, 2016

Undergraduate Organization Advising

Spring 2015 to present: Faculty advisor to the University of Kentucky Forestry Club and Society of American Foresters Student Chapter

Undergraduate Student Academic Advising

2022-2023: fifteen forestry students

2021-2022: sixteen forestry students

2020-2021: fifteen forestry students

2019-2020: nine forestry students

2018-2019: four forestry students

2017-2018: one forestry student

2014-2015: two forestry students

2013: Spring advising, one forestry student

2012: Summer advising, one forestry student

2009: Summer advising, one forestry student

PRESENTATIONS AND CONSULTATIONS

† Indicates presenter

Underline indicates graduate student or staff member who participated under my supervision

Invited Presentations (21)

Bolte, A., E. Dreyer, M. Ferretti, **J.M. Lhotka**, J.M. Leban, S. Liu. Publishing in forest science: New challenges with respect to Open Science. Roundtable with the Chief Editors of Annals of Forest Science. March 29, 2023. AgroParisTech, Nancy, France.

Lhotka, J.M.† Examining growth relationships in *Quercus* dominated stands through models derived from long-term thinning trials. Mini-symposium “Annals of Forest Science: Forests in a changing World”. March 28, 2023. National Research Institute for Agriculture, Food and the Environment (INRAE), Champenoux, France.

Lhotka, J.M.† Decision making approaches for degraded stand management. Association of Consulting Foresters Kentucky Chapter, Fall Meeting and Continuing Education Program. November 11, 2021. Berea, KY.

Lhotka, J.M.† A history of forest degradation. A Path Forward: Understanding and Restoring Degraded Forests. A Working Lands for Wildlife virtual event hosted by the Ruffed Grouse Society and American Woodcock Society. September 22, 2021.

Lhotka, J.M.† and Daniel C. Dey. Dynamics influencing the future of the white oak resource. Society of American Foresters National Convention, Friday Focus On, The White Oak Partnership. November 1, 2020. Louisville, KY.

Lhotka, J.M.† White oak silvicultural research post-conference field tour at Berea College Forest. Southern Forest Tree Improvement Committee (SFTIC) 2019. June 3-6, 2019, Lexington, KY.

Lhotka, J.M.†, J.W. Stringer, J.M. Craig, and C.P. Patterson. Application of midstory removal to enhance oak regeneration potential within uniform and irregular shelterwood systems. Oak Symposium: Sustaining Oak Forests in the 21st Century through Science-based Management. October 24-26, 2017, Knoxville, TN

Lhotka, J.M.† Disturbance dynamics in upland oak forests with specific reference to the charcoal iron industry. 36th Annual Central States Forest Soils Workshop. October 12, 2016. Aurora, KY

Lhotka, J.M.† Forest community patterns and regeneration ecology of oak-dominated forests within Land Between the Lakes. 36th Annual Central States Forest Soils Workshop. October 11, 2016. Aurora, KY

Lhotka, J.M.† Advanced woodland management practices. University of Kentucky Forestry Extension, Woodland Owners Short Course. August 15, 2015. Versailles, KY

Lhotka, J.M.[†] Formulating an expanding-gap silvicultural system to address oak regeneration issues in the Central Hardwood Forest Region. University of Washington, School of Environmental and Forest Sciences, Advanced Silviculture Seminar (SEFS 526). April, 2 2015. Seattle, WA (via video conference)

Lhotka, J.M.[†] Forest edge effects on oak regeneration in gap-based silvicultural systems. Eastern Kentucky University, Department of Biology Seminar Series. February 13, 2015. Richmond, KY

Lhotka, J.M.[†] Forest edge effects on oak regeneration in gap-based silvicultural systems. University of Kentucky Department of Biology, Eco-Lunch Seminar Series. September 5, 2014. Lexington, KY

Lhotka, J.M.[†] Vegetation management and soils (1945 to 1975): Silvicultural systems. Priest River Experimental Forest Centennial Celebration. October 7, 2011. Priest River, ID

Lhotka, J.M.[†] Wood energy harvesting and woodlands – Costs and benefits for woodland owners. Biomass Harvesting in Kentucky Forestry Extension Workshops. Three presentations given on July 12, 13, and 14, 2011 in Princeton, London, and Morehead, KY, respectively

Lhotka, J.M.[†] Faster timber cruising using point double sampling. Association of Consulting Foresters Kentucky Chapter, Spring Continuing Education Program. April 28, 2011. Lexington, KY

Lhotka, J.M.[†] Management of oak in Kentucky. Conducted two field tours for the Association of Consulting Foresters of America, Inc. National Conference. June 29, 2010

Lhotka, J.M.[†] Unintended consequences of biomass harvesting. Kentucky-Tennessee Chapter of the Society of American Foresters Winter Meeting. January 28, 2010. Lexington, KY

Lhotka, J.M.[†] Predicting understory light transmittance and hardwood seedling growth across a canopy structure gradient. University of Missouri, Forestry Graduate Student Association seminar. October 3, 2008. Columbia, MO

Lhotka, J.M.[†] Soil scarification to improve oak establishment. Indiana Society of American Foresters, 2008 Summer Meeting. August 26, 2008. Columbus, IN

Lhotka, J.M.[†] Soil scarification to improve oak establishment. Oak Regeneration and Management Professional Forestry Workshop hosted by University of Kentucky – University of Tennessee Cooperative Extension Partnership. October 3-4, 2007. Lexington, KY

Oral Presentations (29)

Dhungel, G.[†], T.O. Ochuodho, **J.M. Lhotka**, and J.W. Stringer. Sustainability of white oak timber supply in Kentucky. 22nd Central Hardwood Forest Conference. Morgantown, WV, April 6-7, 2022.

Hackworth, Z.J.[†], **J.M. Lhotka**, W.R. Thomas, and T.O. Ochuodho. Informing Kentucky's current and future maple syrup producers: Tree-level evaluation of sugar and red maple sap production parameters. 22nd Central Hardwood Forest Conference. Morgantown, WV, April 6-7, 2022.

Hackworth, Z.J.[†], R. Thunder, **J.M. Lhotka**, J. Yang, C.D. Nelson, and A.G. Abbott. Investigating Thinning Effects on genetic diversity of white oak (*Quercus alba*) populations in upland *Quercus*-dominated forests of the Northern Cumberland Plateau. 22nd Central Hardwood Forest Conference. Morgantown, WV, April 6-7, 2022.

Vogel, P.J., **J.M. Lhotka[†]**, and J.W. Stringer. Long-term effects of crop tree release on growth and quality in white oak dominated stands. 22nd Central Hardwood Forest Conference. Morgantown, WV, April 6-7, 2022.

Stringer, J.W.[†], T.O. Ochuodho, **J.M. Lhotka**, G. Dhungel, P.J. Vogel. Sustainability of white oak for cooperage and spirits industries. James B. Beam Institute Industry Conference, Lexington, KY, March 14-16, 2022.

Hackworth, Z.J.[†], **J.M. Lhotka**, J.J. Cox, C.D. Barton, and M.T. Springer. First-year vitality of reforestation plantings in response to herbivore exclusion on reclaimed Appalachian surface-mined land. Annual Meeting of the Kentucky Chapter of the Wildlife Society, Cadiz, KY, United States. 2018.

Lhotka, J. M.[†] Examining growth relationships in *Quercus* stands: An application of individual-tree models developed from long-term thinning experiments. 21st Central Hardwood Forest Conference. Bloomington, IN, May 15, 2018.

Patterson, C. P.[†], **J.M. Lhotka**, and J.W. Stringer. Initial understory response to gap-based regeneration methods for mature upland oak forests. 21st Central Hardwood Forest Conference. Bloomington, IN, May 15, 2018.

Dement, W.[†], **J.M. Lhotka**, C.D. Barton, J.W. Stringer. An investigation of tree growth and colonization on a 19 year-old forestry reclamation site. National Association of Abandoned Mine Land Programs Conference, Lexington, KY, September 24, 2017

Dement, W.[†], **J.M. Lhotka**, C.D. Barton, J.W. Stringer. An investigation of tree growth and colonization on a 19 year-old forestry reclamation site. Joint Conference of the American Society of Mining and Reclamation and Appalachian Regional Reforestation Initiative, Morgantown, WV, April 9, 2017

Lhotka, J.M.[†], R.A. Cunningham, and J.W. Stringer. Effect of silvicultural gap size on long-term species growth, stand yield, and economic value in upland *Quercus* dominated stands. Paper presented at the 10th IUFRO International Workshop on Uneven-aged Silviculture. Little Rock, AR, May 31 to June 2, 2016

Lhotka, J.M.[†] and J.W. Stringer. Forest edge effects on oak regeneration in gap-based silvicultural systems. Society of American Foresters National Convention. October 23-26, 2013. Charleston, SC

Lhotka, J.M.[†] and J.W. Stringer. Formulating an expanding-gap regeneration system for *Quercus* dominated stands. 9th North American Forest Ecology Workshop. June 17-20, 2013. Bloomington, IN

Lhotka, J.M.[†] Formulating an expanding gap system for *Quercus* dominated stands. University of Kentucky Department of Forestry seminar. November 26, 2012

Craig, J.M.[†], **J.M. Lhotka**, and J.W. Stringer. Response of naturally regenerated and underplanted white oak (*Quercus alba* L.) seedlings six years following midstory removal. 18th Central Hardwood Forest Conference. March 26-28, 2012. Morgantown, WV

Lhotka, J.M.[†] Wood energy harvesting and woodlands: Costs and benefits for Kentucky's forest resources. University of Kentucky Department of Forestry seminar. August 29, 2011

Brinks, J.S.[†], **J.M. Lhotka**, and C.D. Barton. Intensive management of a woody biofuel plantation on a reclaimed Appalachian surface mine. 8th North American Forest Ecology Workshop. June 19-23, 2011. Roanoke, VA

Lhotka, J.M.[†] Revisiting the 1960 size of opening oak regeneration study on Robinson Forest. University of Kentucky Department of Forestry seminar. September 13, 2010

Brinks, J.S.[†], **J.M. Lhotka**, and C.D. Barton. One year response of American sycamore (*Platanus Occidentalis*) and black locust (*Robinia Pseudoacacia*) to granular fertilizer applications on a reclaimed surface mine in Eastern Kentucky. 17th Central Hardwood Forest Conference. April 5-7, 2010. Lexington, KY

Parrott, D.L.[†], **J.M. Lhotka**, and J.W. Stringer. Effects of midstory removal on underplanted black oak (*Quercus velutina*) and white oak (*Quercus alba*) in Western Cumberland Plateau. 17th Central Hardwood Forest Conference. April 5-7, 2010. Lexington, KY

Lhotka, J.M.[†] and E.F. Loewenstein. A comparison of canopy structure measures for predicting height growth of underplanted seedlings. 15th Biennial Southern Silviculture Research Conference. November 17-20, 2008. Hot Springs, AR

Lhotka, J.M. and E.F. Loewenstein[†]. Diameter increment models for individual trees within upland oak stands managed using single-tree selection. 6th IUFRO Workshop of Uneven-

aged Silviculture, Feasibility of Silviculture for Complex Stand Structures: Designing Stand Structures for Sustainability and Multiple Objectives. October 24-27, 2008. Shizuoka, Japan

Lhotka, J.M.[†] and E.F. Loewenstein. Individual tree based growing space model for quantitative management of uneven-aged stands. IFURO Natural Disturbance-Based Silviculture – Managing for Complexity conference. May 14-18, 2006. Rouyn-Noranda, Québec

Lhotka, J.M.[†] Silvicultural implications of forest canopy structure based light transmittance and seedling growth models. Southern Illinois University Department of Forestry seminar. April 12, 2006. Carbondale, IL

Loewenstein, N.J.[†], E.F. Loewenstein, **J.M. Lhotka** and B.J. Ostrom. Response of *Microstegium vimineum* and *Lonicera japonica* to continuous forest cover forestry practices. 7th annual Southeast Exotic Plant Pest Council symposium. May 3-5 2005. Birmingham, AL

Lhotka, J.M.[†] and E.F. Loewenstein. Initial response of underplanted yellow poplar and cherrybark oak seedlings to four levels of mechanical midstory removal. 13th Biennial Southern Silviculture Research Conference. February 28-March 4, 2005. Memphis, TN

Lhotka, J.M.[†] and J.J. Zaczek. The development of oak reproduction following soil scarification – Implications in riparian forest management. 13th Central Hardwood Forest Conference. April 1-3, 2002. Champaign, IL

Lhotka, J.M.[†] and J.J. Zaczek. Use of soil scarification to enhance oak regeneration in a mixed-oak bottomland forest of southern Illinois. 11th Biennial Southern Silviculture Research Conference. March 19-22, 2001. Knoxville, TN

Lhotka, J.M.[†] and J.J. Zaczek. The enhancement of oak regeneration through the use of mechanical incorporation of acorns in a mixed-oak upland forest in southern Illinois. 62nd Association of Southeastern Biologist annual meeting. April 4-7, 2001. New Orleans, LA

Lhotka, J.M.[†] and J.J. Zaczek. The use of soil scarification to enhance oak regeneration: Five-year results. 61st Association of Southeastern Biologist annual meeting. April 5-7, 2000. Chattanooga, TN

Poster Presentations (15)

Dement, W.[†], **J.M. Lhotka**, C.D. Barton, J.W. Stringer. Effect of grading on productivity of high-value tree species in Appalachian surface mines. 19th Biennial Southern Silviculture Research Conference, Blacksburg, VA, March 13, 2017

Dement, W.[†], **J.M. Lhotka**, C.D. Barton, J.W. Stringer. Effect of grading on productivity of high-value tree species in Appalachian surface mines. 2016 Tracy Farmer Institute for Sustainability and the Environment Forum, Lexington, KY, December 1, 2016

Dement, W.[†], **J.M. Lhotka**, C.D. Barton, J.W. Stringer. Effect of grading on productivity of high-value tree species in Appalachian surface mines. Society of American Foresters National Convention. Madison, WI, November 2, 2016

Patterson, C.P.[†], **Lhotka, J.M.** and J.W. Stringer. Initial understory response to gap-based regeneration methods for mature upland oak forests. 18th Biennial Southern Silvicultural Research Conference. March 2-5, 2015. Knoxville, TN

Lhotka, J.M.[†] and J.W. Stringer. Formulating an expanding-gap regeneration system for *Quercus* dominated stands. Society of American Foresters National Convention. October 24-27, 2012. Spokane, WA

Shaffer, J.D.[†], S.K. Gleeson, J.J. Cox, and **J.M. Lhotka**. The influence of grass competition and herbivory on native hardwood seedling establishment in the Inner Bluegrass of Kentucky. 97th Annual Ecological Society of America meeting. August 5-10, 2012. Portland, OR

Craig, J.M.[†] and **J.M. Lhotka**. Using the dendrochronology program library (dplR) to document the influence of environmental conditions and human disturbance on tree growth in a Kentucky forest. 18th Central Hardwood Forest Conference. March 26-28, 2012, Morgantown, WV

Parrott, D.L.[†], **J.M. Lhotka**, J.W. Stringer. Impact of ice damage on overstory canopy structure and oak reproduction established following midstory removal. 16th Biennial Southern Silviculture Research Conference. February 14-17, 2011. Charleston, SC

Brinks, J.S.[†], **J.M. Lhotka**, and C.D. Barton. Biomass accumulation in black locust and American sycamore on reclaimed surface mines in eastern Kentucky. University of Kentucky Graduate Student Interdisciplinary Conference. April 3, 2009. Lexington, KY

Lhotka, J.M.[†], M.R. Saunders, J.M. Kabrick, D.C. Dey. Regenerating oak dominated forests using irregular, gap-based silvicultural systems. 15th Biennial Southern Silviculture Research Conference. November 17-20, 2008. Hot Springs, AR

Lhotka, J.M. and J.J. Zaczek[†]. 2006. Scarification seeding of oak: Reproduction in three case studies. IUFRO Advances in Principles and Practices of Oak Silviculture and Genetics. September 24-27, 2006. Stevens Point, WI

Rawls, R.P.[†], **J.M. Lhotka**[†], E.F. Loewenstein, J.M. McDaniel, and M.F. Smidt. Stakeholder preferences among various forest management regimes at the wildland-urban interface. Emerging Issues along Urban/Rural Interfaces: Linking Science and Society conference. March 13-16, 2005. Atlanta, GA

Lhotka, J.M.[†], J.J. Zaczek, and R.T. Graham. The influence of soil scarification on oak reproduction: Review and management recommendations. Upland Oak Ecology Symposium: History, Current Conditions, and Sustainability. October 7-10, 2002. Fayetteville, AR

Graham, R.T.[†], T.B. Jain, and **J.M. Lhotka**. Physically and biologically enhancing residual decomposition. Joint Fire Sciences Program Principal Investigator Workshop. March 11-14, 2002. San Antonio, TX

Graham, R.T.[†], T.B. Jain, and **J.M. Lhotka**. Structural and fuel treatments for restoring old-growth ponderosa pine forests in the Interior West. Joint Fire Sciences Program Principal Investigator Workshop. March 11-14, 2002. San Antonio, TX

Consultations (7)

November 9, 2017: Field day on the Daniel Boone National Forest (London Ranger District) to discuss oak silviculture as part of public involvement field tour for a proposed research-based vegetation management project

September 26, 2017: Day-long field visit to discuss white oak sustainability with three partnering companies Central Kentucky Forest Management, Elk Cave Timber, and Irish Distillers

August, 20 2013: Day-long field visit to Fort Knox Military Reservation to discuss upland hardwood management strategies with Department of Defense forestry staff and a consultant with Central Kentucky Forest Management

April 22, 2013: Discussed integration of forest inventory software and growth and yield models with Fogarty Forestry, LLC, Consultant from West Newbury, VT

November 18, 2009: Discussed gap-based regeneration approaches for upland oak stands with Kentucky Natural Lands Trust, Forest Steward from Berea, KY

April 6, 2009: Discussed techniques for reforestation of reclaimed surface mines with Chevron Mining Inc., Environmental Engineer from Berry, AL

October 23, 2008: Discussed methods for regenerating oak on productive sites in eastern Missouri with Missouri Department of Conservation, Resource Forester from Perry County, MO

SERVICE AND RECOGNITION

Professional Leadership and Service

Society of American Foresters (SAF) national advisory committees

Educational Policy Review Committee

Committee Chair: October 1, 2022 to present

Member: January 1, 2021 to present

SAF's Educational Policy Review Committee (EPRC) reviews and monitors the procedures, standards, and guidelines for accrediting educational programs in professional forestry, urban forestry, natural resources and ecosystem management, and in forest technology. As a committee member, I had direct

involvement in the development of the revised set of SAF accreditation standards approved in 2021.

Committee on Accreditation (COA)

Committee Chair: January 1, 2018 to December 31, 2019

Member: January 1, 2015 to December 31, 2020

The Committee on Accreditation (COA) evaluates and conducts periodic reviews, including accreditation site visits, of educational programs in professional forestry, urban forestry, and natural resources and ecosystem management. The Committee on Accreditation is the body within SAF that grants initial or continued accreditation of postsecondary degree-granting programs. There are SAF accredited degree programs at 53 universities and colleges across the US and Canada.

Society of American Foresters (SAF) Eastern Kentucky Chapter, Chair Elect (2016), Chair (2017)

Beam Suntory, Inc., International Oak Collaborative, On-the-Ground Replanting Focus Working Group member

Editorships and Reviewer Service

Co-Editor-in-Chief, *Annals of Forest Science*, May 2021 to present

Annals of Forest Science is an international research journal devoted to multidisciplinary research for forests and wood in a changing world. It is one of the journals of the French National Research Institute for Agriculture, Food and Environment (INRAE). The journal's 2021 JIF is 3.77 and it is ranked by Journal Citation Reports® in the top 10 within the Forestry category.

Associate Editor, *Annals of Forest Science*, March 2018 to May 2021

Guest Associate Editor, *Forest Science*, 2014-2019

Guest Associate Editor, *Southern Journal of Applied Forestry*, 2011

Co-Editor, 2010, Proceedings of the 17th Central Hardwood Forest Conference

Journal Reviewer: *Canadian Journal of Forest Research*, *European Journal of Forest Research*, *Forests*, *Forest Ecology and Management*, *Forest Science*, *Forestry Chronicle*, *Journal of Forestry*, *Journal of the Torrey Botanical Society*, *New Forests*, *Northern Journal of Applied Forestry*, *Southern Journal of Applied Forestry*

Reviewed manuscripts for Proceedings of 16th Central Hardwood Forest Conference, 2007

Grant Review Panels

Reviewed silviculture proposal for the McIntire-Stennis Cooperative Forestry Program at Southern Illinois University, 2009

Reviewed pre-proposals (18) and full-proposals (4) for the Southern Forest Research Partnership (SFRP) grant program, 2007

Reviewed proposals (11) for University of Kentucky, Precision Resource Management grant program, 2007

Fellow and Affiliate Faculty Appointments

Faculty Fellow, James B. Beam Institute for Kentucky Spirits, October 2021 to present

Affiliate Associate Professor, School of Forestry and Wildlife Sciences, Auburn University, Auburn, AL, November 2010 to December 2016

Conference Planning

Co-Chair of organizing committee for the 2019 Society of American Foresters Silviculture Instructors Field Tour. Kentucky and Indiana, October 27-30, 2019

Member of organizing committee for Bioenergy Symposium associated with 2011 Kentucky Agricultural Summit. Conference held in Louisville, KY on November 17, 2011

Coordinator of meeting titled “Opportunities and Challenges of Woody Biomass for Meeting Kentucky’s Bioenergy Needs”. Event held in Lexington, KY on February 24, 2011

Co-Chair of the 17th Central Hardwood Forest Conference committee. Conference held in Lexington, KY on April 5 to 7, 2010

Professional Affiliations

Society of American Foresters (SAF)
Working Group D2 (Silviculture)
Silviculture Instructors Subgroup of Working Group D2

Media Highlights

USDA Forest Service People, Places, and Things May 3, 2013 newsletter highlighted UK forestry students’ visit to Coweeta Hydrologic Laboratory and Nantahala and Chattahoochee-Oconee National Forests as part of J.M. Lhotka’s Silvicultural Practices (FOR 358) field course

Pontiac Daily Leader, “Condition of Woods Studied”, July 26, 2012 by Luke Smucker, <http://www.pontiacdailyleader.com/article/20120726/NEWS/307269945>

University of Kentucky Cooperative Extension Service’s “Growing Kentucky” TV program, HP Technology Grant, April 2009

Awards and Honors

Outstanding Alumni Mid-Career Award, Southern Illinois University Carbondale, College of Agricultural Sciences, February 22, 2019

A Teacher Who Made a Difference, University of Kentucky, College of Education, April 26, 2014

Outstanding Young Alumnus Award, Southern Illinois University, Department of Forestry, 2007

The James Floyd Goggans Graduate Fellowship, For Excellence in Forest Biology Study and Research, 2005

USDA Certificate of Merit, Outstanding Contributions to National Fire Plan Studies, 2001

Outstanding Graduate Student Paper, 11th Biennial Southern Silviculture Research Conference, 2001

Dean's Certificate of Distinction, Southern Illinois University, College of Agriculture, 1997

Dean's List, Southern Illinois University, 1995-1996, 1996-1997, 1997-1998, 1998-1999 academic years

University Committee Service

University of Kentucky - College of Agriculture, Food, and Environment

Member (rotating): Undergraduate Curriculum Committee, August 2016 to present

Member: Faculty Council, May 2015 to August 2017

Member: Precision Resource Management Committee, April 2009 to February 2010

University of Kentucky - Department of Forestry and Natural Resources

Director of Undergraduate Studies: Forestry Degree Program, July 2022 to Present

Member: Chair's Advisory Committee, December 2017 to Present

Chair: Undergraduate Program Committee, August 2016 to Present (*Member:* August 2010 to Present)

Member: Research Committee, August 2010 to Present (*Co-Chair* August 2014 to August 2016)

Member: Seminar Committee, August 2011 to Present (*Chair* August 2011 to December 2014)

Member: Graduate Program Committee, August 2007 to July 2009, August 2011 to July 2013, August 2015 to July 2017

Chair: Forest Management faculty search committee, December 2021 to present

Chair: Tree Physiology faculty search committee, April 2017 to February 2018

Chair: Forest Policy and Economics faculty search committee, December 2015 to June 2016

Chair: Forest Landscape Ecology faculty search committee, December 2013 to May 2014

Other Service Activities

Forester and Naturalist badge educational programs for Cub Scout group, October 6 and 22, 2015, Lexington, KY

Lexington-Fayette Urban County Government Reforest the Bluegrass program
Coordinator to recruit and train UK student volunteers, 2009, 2010, 2011
Volunteer tree planting crew leader, April 2009, 2011

Faculty Marshal, Spring 2011 University of Kentucky graduation ceremony

PROFESSIONAL DEVELOPMENT

Professional Development in Instructional Methodology

University of Kentucky Faculty Fellows Program (Cohort 6 – 2016 to 2017 academic year)

Professional Meetings Attended (47)

Society of American Foresters National Convention. September 21-23, 2023. Baltimore, MD

Society of American Foresters Silviculture Instructors Field Tour of Northern New Mexico. September 18-21, 2023. Baltimore, MD

22nd Central Hardwood Forest Conference. Morgantown, WV, April 6-7, 2022

Society of American Foresters National Convention. Louisville, KY, October 31, 2019 – November 2, 2019

Society of American Foresters National Convention. Portland, OR, October 4-5, 2018

21st Central Hardwood Forest Conference. Bloomington, IN, May 15-16, 2018

Society of American Foresters National Convention. Albuquerque, NM, November 16-18, 2017

Oak Symposium: Sustaining Oak Forests in the 21st Century through Science-based Management. October 24-26, 2017, Knoxville, TN

2017 UTIA and UK Grant Writers Workshop. March 16-17, 2017, Knoxville, TN

Society of American Foresters National Convention. Madison, WI, November 2 to 5, 2016

10th IUFRO International Workshop on Uneven-aged Silviculture. Little Rock, AR, May 31 to June 2, 2016

10th Biennial Conference on University Education in Natural Resources. March 13-15, 2014. Auburn, AL

Society of American Foresters National Convention. October 24-25, 2013. Charleston, SC

Society of American Foresters Silviculture Instructors Field Tour “Silviculture Matters: Silviculture from the Appalachian Mountains to the Atlantic Coastal Plain”. October 19-23, 2013

9th North American Forest Ecology Workshop. June 17-20, 2013. Bloomington, IN

Central Appalachian Early-Career Scientist Retreat. May 1-3, 2013. University of Kentucky Robinson Forest, Clayhole, KY

Society of American National Convention. October 24-27, 2012. Spokane, WA

Society of American Foresters Silviculture Instructors Field Tour of Western Montana and Northern Idaho. October 20-24, 2012

Kentucky-Tennessee Chapter of the Society of American Foresters Winter Meeting. January 25-27, 2012. Lexington, KY

2011 Missouri Bioenergy Tour, co-sponsored by Kentucky Governor’s Office of Agricultural Policy and Energy and Environment Cabinet. May 3-5, 2011

16th Biennial Southern Silviculture Research Conference. February 14-17, 2011. Charleston, SC

Society of American Foresters National Convention. October 28, 2010. Albuquerque, NM

Society of American Foresters Silviculture Instructors Field Tour of Northern New Mexico. October 24-27, 2010. Albuquerque, NM

Association of Consulting Foresters of America, Inc. National Conference. June 28-29, 2010. Louisville, KY

17th Central Hardwood Forest Conference. April 5-7, 2010. Lexington, KY

Invasive Species Conference. December 12-14, 2008. Lexington, KY

15th Biennial Southern Silviculture Research Conference. November 17-20, 2008. Hot Springs, AR

Society of American Foresters National Convention. November 6, 2008. Reno, NV

Society of American Foresters Silviculture Instructors Field Tour of the Sierra Nevada Mountains and Tahoe Basin. November 3-5, 2008. Reno, NV

16th Central Hardwood Forest Conference. April 8-9, 2008. Lafayette, IN

Society of American Foresters National Convention. October 24-26, 2007. Portland, OR

Society of American Foresters Silviculture Instructors Field Tour of Western Oregon and Washington. October 21-23, 2007

Scientific Foundations of Conservation Planning in the Cumberland Plateau and Mountains. November 13-14, 2007. Knoxville, TN

USDA/CSREES Grantsmanship Workshop. October 9-10, 2007. Washington, DC

Southern Hardwood Forestry Group field tour and meeting. April 2007. Selma, AL

Forest Inventory and Analysis data training workshop. March 1, 2007. Athens, GA

14th Biennial Southern Silviculture Research Conference. February 26-March 1, 2007. Athens, GA

IFURO Natural Disturbance-Based Silviculture: Managing for Complexity conference. May 14-18, 2006, Rouyn-Noranda, Québec

Emerging Issues along Urban/Rural Interfaces: Linking Science and Society conference. March 13-16, 2005, Atlanta, GA

13th Biennial Southern Silviculture Research Conference. February 28 - March 4, 2005. Memphis, TN

Upland Oak Ecology Symposium: History, Current Conditions, and Sustainability. October 7-10, 2002, Fayetteville, AR

13th Central Hardwoods Forest Conference. April 1-3, 2002. Champaign, IL

11th Biennial Southern Silviculture Research Conference. March 19-22, 2001. Knoxville, TN

62nd Association of Southeastern Biologist Annual Meeting. April 4-7, 2001. New Orleans, LA

61st Association of Southeastern Biologist Annual Meeting. April 5-7, 2000. Chattanooga, TN

60th Association of Southeastern Biologist Annual Meeting. April 14-16, 1999. Wilmington, NC

Society of American Foresters National Convention. September 11-15, 1999. Portland, OR