Benjamin O. Knapp Curriculum Vitae

School of Natural Resources 203-S ABNR Building University of Missouri Columbia, MO 65201	Office: (573) 882 0867 Fax: (573) 882 1977 Cell: (864) 710 7662 Email: knappb@missouri.edu
 PROFESSIONAL EXPERIENCE Interim Director, Center for Agroforestry, School of Natural Resour University of Missouri, Columbia, MO 65211 	
 Associate Professor, School of Natural Resources, University of Mi Columbia, MO 65211 	
 Adjunct Assistant Professor, Department of Forestry, Wildlife and Funiversity of Tennessee, Knoxville, TN 37996 Superintendent/Faculty Manager, Baskett Forest, University of Miss 	
 Superintendent's actury Wallager, Baskett Forest, University of Wish Columbia, MO 65211 Assistant Professor, School of Natural Resources, University of Mish 	
 Columbia, MO 65211 Forestry Research Technician (GS-7), USDA Forest Service, Souther Research Station, Clemson, SC 29634 	
 EDUCATION Ph.D., Forest Resources; Clemson University, Clemson, SC 29634 Dissertation: Developing silvicultural protocols for longleaf pine (Palustris) restoration in loblolly pine (Pinus taeda) stands Advisor: Dr. G. Geoff Wang 	May 2012 Pinus
• M.S., Forest Resources; Clemson University, Clemson, SC 29634 Thesis: Effect of site preparation treatments on first-year survival ar growth of planted longleaf pine (<i>Pinus palustris</i>) seedlings Advisor: Dr. G. Geoff Wang	May 2005
 B.S., Forestry; Purdue University, West Lafayette, IN 47907 graduated with highest distinction; overall GPA of 3.98 	May 2003
 HONORS AND RECOGNITION Carl Alwin Schenck Award, Society of American Foresters, outstan 	ding performance 2025
 in the field of forestry education, national award Impact on Teaching Award, School of Natural Resources, Universit US Forest Service, Northern Research Station Director's Award: Ex 	y of Missouri 2024
 Science Delivery and Technology Transfer Buddy Temple Visiting Scholar, Boggy Slough Conservation Area Outstanding Young Alumni Award; Forestry and Natural Resources CAFNR Early Investigator Research Achievement Award 	2021 2020 2019

•	CAFNR Outstanding Early Career Teacher Award	2018
•	Douglas R. Phillips Graduate Student Award; Clemson University	2011
•	Outstanding Graduate Paper, 16 th Biennial Southern Silvicultural Research	2011
	Conference, Charleston, SC	
•	USDA Forest Service Safety Award	2011

PUBLICATIONS

Peer-Reviewed Journals - *denotes student or post-doctoral advisee

I have published or have accepted 59 peer-reviewed journal articles, with 5 additional articles currently in review.

- *Fillingim, H., <u>Knapp, B.O.</u>, Kabrick, J.M., Stambaugh, M.C., Elliott, G.P., Dey, D.C. [in review]. Resprouting dynamics suggest different regeneration strategies for shortleaf pine and oak species following surface fires in Missouri Ozarks. Forest Ecology and Management.
- Hicks, D., Podoliak, J., <u>Knapp, B.O.</u>, Webb, L. [in review]. Site conditions and forest stand dynamics impact bottomland hardwood forest restoration on wetland reserve easements. Restoration Ecology
- Knapp, B.O., Fraser, J., Baggs, J., Chhatre, V.E., Clabo, D., Crouch, C.D., Dey, D.C., Hossain, S.M., Jack, S.B., Kabrick, J.M., Kidd, K.R., McNulty, S., Nordman, C., Olson, M.G., Palmquist, K., Pelkki, M., Schalk, C.M., Stambaugh, M.C., Varner, J.M., and Willis, J.L. [in review]. Shortleaf pine (*Pinus echinata*): management challenges, knowledge gaps, and opportunities for an unsung species. Journal of Forestry.
- Pile Knapp, L.S., <u>Knapp, B.O.</u>, Crouch, C.D., Newbold, C., and Demand, J. [in review]. Functional eradication of sericea lespedeza (*Lespedeza cuneata*) requires sustained management in prairie reconstructions. Restoration Ecology.
- Hayford, I., <u>Knapp, B.O.</u>, Wood, J.D., Kabrick, J.M., Graham, B. [in review] Photosynthetic light responses of planted pin oak (*Quercus palustris*) and swamp white oak (*Quercus bicolor*) seedlings growing in two light environments and across a hydrological gradient. New Forests.

2025

- 1. Vickers, L.A., <u>Knapp, B.O.</u>, Goff, T., Brandeis, T.J., Lhotka, J.M., Morin, R.S., Sena, K.L., Stringer, J.W. 2025. Bourbon barrels and bottlenecks: a nuanced look at thirty years of white oak population dynamics. Journal of Forestry 123:675-701. https://doi.org/10.1007/s44392-025-00047-8
- 2. *Goldberg, I.M., <u>Knapp, B.O.</u>, Puhlick, J.J., and Stambaugh, M.C. 2025. Age structure of saplings in canopy openings of mature longleaf pine woodlands. Canadian Journal of Forest Research 55:1-13. https://doi.org/10.1139/cjfr-2025-0076
- 3. *Jensen, G.L., <u>Knapp, B.O.</u>, Cannon, J.B., and Bigelow, S.W. 2025. Vegetation-fuel-fire feedbacks in patches of longleaf pine (*Pinus palustris* Mill.) regeneration. Fire Ecology 21:15 https://doi.org/10.1186/s42408-025-00355-6.

2024

4. *Hayford, I. <u>Knapp, B.O.</u>, Wood, J., Argerich, A., Kabrick, J., Elliott, G.P., and Olson, M. 2024. Effects of silvicultural release on artificial regeneration in bottomland hardwood forests in northern Missouri. Canadian Journal of Forest Research 54(11): 1254-1269 https://doi.org.10.1139/cjfr-2024-0073.

2023

- 5. Vickers, L.A., <u>Knapp, B.O.</u>, Dey, D.C., and Pile Knapp, L.S. 2023. Do forest health threats affect upland oak regeneration and recruitment? Advance reproduction is a key co-morbidity. Forest Ecosystems. 10: 100152 https://doi.org/10.1016/j.fecs.2023.100152
- 6. Pile Knapp, L.S., Coyle, D.R., Dey, D.C., Fraser, J.S., Hutchinson, T., Jenkins, M.A., Kern, C.C., Knapp, B.O., Maddox, D., Pinchot, C., and Wang, G.G. 2023. Invasive plant management in eastern North American forests: a systematic review. Forest Ecology and Management. 550:121517. https://doi.org/10.1016/j.foreco.2023.121517
- 7. *Fillingim, H., <u>Knapp, B.O.</u>, Kabrick, J.M., Stambaugh, M.C., Elliott, G.P., and Dey, D.C. 2023. Direct and indirect effects of fire on germination of shortleaf pine seeds. Fire Ecology 19:53. https://doi.org/10.1186/s42408-023-00214-2
- 8. *Hayford, I., <u>Knapp, B.O.</u>, Kabrick, J.M. 2023. Responses of natural and artificial pin oak (*Quercus palustris*) regeneration to a sequence of silvicultural release treatments in bottomland hardwood forests in southern Missouri. Forest Ecology and Management. 529:120699 https://doi.org/10.1016/j.foreco.2022.120699
- 9. *Anderson, S.E., <u>Knapp, B.O.</u>, Kabrick, J.M. 2023. Stand density effects on aboveground carbon dynamics in second-growth *Pinus* and *Quercus* forests of central USA. Forest Science. 69(2):213-227 https://doi.org/10.1093/forsci/fxac053

- 10. Aguilar, F.X., Sudekum, H., McGarvey, R., <u>Knapp, B.O.</u>, Domke, G., and Brandeis, C. 2022. Wood pellet industry effects on local forest carbon stocks: evidence from the US coastal southeast. Scientific Reports 12:19449. https://doi.org/10.1038/s41598-022-23870-x
- 11. <u>Knapp, B.O.</u>, *Maginel, C.J., Graham, B., Kabrick, J.M., Dey, D.C. 2022. Escaping the fire trap: does frequent, landscape-scale burning inhibit tree recruitment in a temperate broadleaf ecosystem? Forest Ecology and Management. 513:120191. https://doi.org/10.1016/j.foreco.2022.120191
- 12. *Crouch, Connor, <u>Knapp, B.O.</u>, Cohen, S.A., Glitzenstein, J., Walker, J., and Wang, G.G. 2022. Longleaf pine restoration on hydric sites: understory plant community responses to site preparation through 15 years. Applied Vegetation Science. 21:e12637. https://doi.org/10.1111/avsc.12637
 - 13. Dibala, R. Jose, S., Gold, M., Kallenbach, R., and <u>Knapp, B.O.</u> 2021. Initial performance of red mulberry (*Morus rubra* L.) under a light gradient: an overlooked alternative livestock forage? Agroforestry Systems. https://doi.org/10.1007/s10457-021-00699-3
 - 14. Lyczak, S.J., Kabrick, J.M., <u>Knapp, B.O.</u> 2021. Long-term effects of biomass removal, compaction, and vegetation control on tree survival and growth in coarse-textured, low-productivity soils. Forest Ecology and Management. 15: 119428. https://doi.org/10.1016/j.foreco.2021.119428
 - 15. Dibala, R., Jose, S., Gold, M., Hall, J., Kallenbach, R., and <u>Knapp, B.O.</u> 2021. Tree density effects on soil, dry matter production, and nutritive value of understory *Megathyrsus maximus* in a seasonally dry tropical silvopasture in Panama. Agroforestry Systems 95: 741-753. https://doi.org/10.1007/s10457-021-00628-4
 - 16. *Vickers, L.A., <u>Knapp, B.O.</u>, Kabrick, J.M., Kenefic, L.S., D'Amato, A.W., Kern, C.C., MacLean, D.A., Raymond, P., Clark, K.L., Dey, D.C., Rogers, N.S. 2021. Contemporary status, distribution, and trends of mixedwoods in the northern United States. Canadian Journal of Forest Research. https://doi.org/10.1139/cjfr-2020-0467

Curriculum Vitae October 2025

- 17. *Wang, S., <u>Knapp, B.O.</u>, Ehlers, S., Graham, B., Gao, X., Timm, S. 2021. Forest management effects on downed dead wood at stand and landscape scales in a temperate forest of the central United States. Forest Ecology and Management 482: 118905. https://doi.org/10.1016/j.foreco.2020.118905
- 18. Kenefic, L.S., Kabrick, J.M., <u>Knapp, B.O.</u>, Raymond, P., Clark, K.C., D'Amato, A.W., Kern, C.C., Vickers, L.A., Dey, D.C., Rogers, N.S. 2021. Mixedwood silviculture in North America: the science and art of managing complex, multi-species temperate forests. Canadian Journal of Forest Research. https://doi.org/10.1139/cjfr-2020-0410

2020

- 19. Refsland, T., <u>Knapp, B.O.</u>, Stephan, K., Fraterrigo, J. 2020. Sixty-five years of fire manipulation reveals climate and fire interact to determine growth rates of *Quercus* spp. Ecosphere. 11 e03287. https://doi.org/10.1002/ecs2.3287
- 20. *Rives, R.G., Knapp, B.O., Olson, M.G., Weegman, M.D., and Muzika, R.M. 2020. Regenerating mixed bottomland hardwood forests in north Missouri: effects of harvest treatment on structure, composition, and growth through 15 years. Forest Ecology and Management 475, 118371. https://doi.org/10.1016/j.foreco.2020.118371
- 21. *Curtin, P.J., <u>Knapp, B.O.</u>, Jack, S.B., Vickers. L.A., Larsen, D.R., and Guldin, J.M. 2020. Recruiting under a canopy: effects of overstory competition on tree recruitment patterns of naturally regenerated longleaf pine on two site types. Canadian Journal of Forest Research 50(7). https://doi.org/10.1139/cjfr-2019-0343
- 22. *Crouch, C.D., <u>Knapp, B.O.</u>, Cohen, S.A., Stambaugh, M.C., Walker, J.L., and Wang, G.G. 2020. Site preparation for longleaf pine restoration on hydric sites: stand development through 15 years. Forest Ecology and Management 461. https://doi.org/10.1016/j.foreco.2020.117928
- 23. Newbold, C., <u>Knapp, B.O.</u>, and Pile, L.S. 2019. Are we close enough? Comparing prairie reconstruction chronosequences to remnants following two site preparation methods in Missouri, USA. Restoration Ecology. 28(2): 358-368. https://doi.org/10.111/rec/13078

- 24. Wang, S., Qi, G., and <u>Knapp, B.O.</u> 2019. Topography affects tree species distribution and biomass variation in a warm temperate, secondary forest. Forests 10: 895. https://doi.org/10.3390/f10100895
- 25. *Vickers, L.A., McWilliams, W.H., <u>Knapp, B.O.</u>, D'Amato, A.W., Dey, D.C., Dickinson, Y.L., Kabrick, J.M., Kenefic, L.S., Kern, C.C., Larsen, D.R., Royo, A.A., Saunders, M.R., Shifley, S.R., and Westfall, J.A. 2019. Are current seedling demographics poised to regenerate northern US forests? Journal of Forestry 117(6): 592-612. https://doi.org/10.1093/jofore/fvz046
- 26. <u>Knapp, B.O.</u>, *Anderson, S.E., *Curtin, P.J., *Ghilardi, C., and *Rives, R.G. 2019. Can clearcutting reset successional trajectories in upland oak-hickory forests? A case study from mid-Missouri. Journal of Forestry 117(5): 435-442. https://doi.org/10.1093/jofore/fvz041
- 27. *Vickers, L.A., Larsen, D.R., <u>Knapp, B.O.</u>, Kabrick, J.M., and Dey, D.C. 2019. Height development milestones for canopy recruitment after overstory removal in the Missouri Ozarks. Forest Ecology and Management 445:122-133. https://doi.org/10.1016/j.foreco.2019.04.049
- 28. *Maginel, C.J., <u>Knapp, B.O.</u>, Kabrick, J.M., and Muzika, R.M. 2019. Landscape and local responses of ground flora to 16 years of prescribed fire in the Missouri Ozarks. Canadian Journal of Forest Research 48(8): 1004-1014. https://doi.org/10.1139/cjfr-2018-0492
- 29. Dey, D.C., <u>Knapp, B.O.</u>, Deal, R.L., Hart, J.L., Battaglia, M.L., Schweitzer, C.J., and Schuler, T.M. 2019. Barriers to natural regeneration in temperate forests across the United States. New Forests. 50:11-40. https://doi.org/10.1007/s11056-018-09694-6

30. *Vickers, L.A., McWilliams, W.H., <u>Knapp, B.O.</u>, D'Amato, A.W., Saunders, M.R., Shifley, S.R., Kabrick, J.M., Dey, D.C., Larsen, D.R., and Westfall, J.A. 2019. Using a tree seedling mortality budget as an indicator of landscape-scale forest regeneration security. Ecological Indicators. 96:718-727. https://doi.org/10.1016/j.ecolind.2018.06.028

2018

- 31. <u>Knapp, B.O.</u> and Pallardy, S.G. 2018. Forty-eight years of forest succession: tree species change across four forest types in mid-Missouri. Forests. 9:633, https://doi.org/10.3390/f9100633
- 32. <u>Knapp, B.O.</u>, Pile, L.S., Walker, J.L., and Wang, G.G. 2018. Fire effects on a fire-adapted species: response of grass stage longleaf pine seedlings to experimental burning. Fire Ecology. 14:2. https://doi.org/10.1186/s42408-018-0003-y
- 33. Wood, J.D., <u>Knapp, B.O.</u>, Muzika, R.M., Stambaugh, M.C., and Gu, L. 2018. The importance of drought-pathogen interactions in driving oak mortality events in the Ozark Border Region. Environmental Research Letters 13: 015004. http://doi.org/10.1088/1748-9326/aa94fa

2017

- 34. Vickers, L.A., Larsen, D.R., <u>Knapp, B.O.</u>, Kabrick, J.M., and Dey, D.C. 2017. Reference charts for young stands: a quantitative methodology for assessing tree performance. Canadian Journal of Forest Research 47: 1677-1686. http://dx.doi.org/10.1139/cjfr-2017-0258
- 35. Pile, L.S., Wang, G.G., <u>Knapp, B.O.</u>, Liu, G., and Yu, D. 2017. Morphological and physiological adaptations to frequent surface fire regimes: a comparative study on seedlings of three *Pinus* species native to southeast United States. Annals of Forest Science. 74: 68. http://doi.org/10.1007/s13595-017-0666-6
- 36. Pile, L.S., Wang, G.G., <u>Knapp, B.O.</u>, Walker, J.L., and Stambaugh, M.C. 2017. Chinese tallow (*Triadica sebifera*) invasion in maritime forests: the role of anthropogenic disturbance and its management implication. Forest Ecology and Management. 398: 10-24. http://dx.doi.org/10.1016/j.foreco.2017.05.006
- 37. <u>Knapp, B.O.</u>, Olson, M.G., and Dey, D.C. 2017. Early stump sprout development following two levels of harvest in a Midwestern bottomland hardwood forest. Forest Science. 63: 377-387. http://dx.doi.org/10.5849/FS-2016-029R2
- 38. Kabrick, J.M., Clark, K.L., D'Amato, A.W., Dey, D.C., Kenefic, L.S., Kern, C.C., <u>Knapp, B.O.</u>, MacLean, D.A., Raymond, P., and Waskiewicz, J. 2017. Managing hardwood-softwood mixtures for future forests in eastern North America: assessing suitability to projected climate change. Journal of Forestry. 115: 190-201. http://dx.doi.org/10.5849/jof.2016-024
- 39. *Vickers, L.A., Larsen, D.R., Dey, D.C., <u>Knapp, B.O.</u>, and Kabrick, J.M. 2017. The impact of overstory density on reproduction establishment in the Missouri Ozarks models for simulating regeneration stochastically. Forest Science 63: 71-86. http://dx.doi.org/10.5849/forsci.15-183
- 40. <u>Knapp, B.O.</u>, *Hullinger, M.A., and Kabrick, J.M. 2017. Effects of fire frequency on successional development of an oak-hickory forest in Missouri, U.S.A. Forest Ecology and Management. 387: 19-29. http://dx.doi.org/10.1016/j.foreco.2016.07.013
- 41. Olson, M.G., <u>Knapp, B.O.</u>, and Kabrick, J.M. 2017. Dynamics of a temperate deciduous forest under landscape-scale management: implications for adaptability to climate change. Forest Ecology and Management. 387: 73-85. http://dx.doi.org/10.1016/j.foreco.2016.07.033

<u>2016</u>

42. Hu, H., <u>Knapp, B.O.</u>, Wang, G.G., and Walker, J.L. 2016. Silvicultural treatments for converting loblolly pine to longleaf pine dominance: effects on ground layer and midstory vegetation. Applied Vegetation Science. 19: 280-290. http://dx.doi.org/10.1111/avsc.12217

43. <u>Knapp, B.O.</u>, Wang, G.G., Walker, J.L., and Hu, H. 2016. Using silvicultural practices to regulate competition, resource availability, and growing conditions for *Pinus palustris* seedlings underplanted in *Pinus taeda* forests. Canadian Journal of Forest Research. 46: 902-913. http://dx.doi.org/10.1139/cjfr-2016-0066

44. *Maginel, C.J., <u>Knapp, B.O.</u>, Muzika, R.M., Kabrick, J.M., and Olson, E.K. 2016. Floristic Quality Index for woodland restoration: utility and effectiveness in a fire-managed landscape. Ecological Indicators. 67: 58-67. http://dx.doi.org/10.1016/j.ecolind.2016.02.035

2015

- 45. Addington, R.N., <u>Knapp, B.O.</u>, Sorrell, G.A., Elmore, M.L., Wang, G.G., and Walker, J.L. 2015. Factors affecting broadleaf woody vegetation in upland pine forests management for longleaf pine restoration. Forest Ecology and Management. 354: 130-138. http://dx.doi.org/10.1016/j.foreco.2015.06.028
- 46. Kabrick, J.M., <u>Knapp, B.O.</u>, Dey, D.C., and Larsen, D.R. 2015. Effect of initial seedling size, understory competition, and overstory density on the survival and growth of *Pinus echinata* seedlings underplanted in hardwood forests for restoration. New Forests. 46: 897-918. http://dx.doi.org/10.1007/s11056-015-9487-3
- 47. <u>Knapp, B.O.</u>, Stephan, K., and Hubbart, J.A. 2015. Structure and composition of an oak-hickory forest after over 60 years of repeated prescribed burning in Missouri, U.S.A. Forest Ecology and Management. 344: 95-109. http://dx.doi.org/10.1016/j.foreco.2015.02.009

<u>2014</u>

- 48. <u>Knapp, B.O.</u>, Olson, M.G., Larsen, D.R., Kabrick, J.M., and Jensen, R.G. 2014. Missouri Ozark Forest Ecosystem Project: a long-term, landscape-scale, collaborative forest management research project. Journal of Forestry. 112: 513-524. doi: http://dx.doi.org/10.5849/jof.13-102
- 49. Knapp, B.O., Walker, J.L., Wang, G.G., Hu, H., and Addington, R.N. 2014. Effects of overstory retention, herbicides, and fertilization on sub-canopy vegetation structure and functional group composition in loblolly pine forests restored to longleaf pine. Forest Ecology and Management 320: 149-160. http://dx.doi.org/10.1016/j.foreco.2014.03.021
- 50. Knapp, B.O., Wang, G.G., Clark, S.L., Pile, L.S., and Schlarbaum, S.E. 2014. Leaf physiology and morphology of *Castanea dentata* (Marsh.) Borkh., *Castanea mollissima* Blume, and three backcross breeding generations planted in the southern Appalachians. New Forests 45: 283-293. http://dx.doi.org/10.1007/s11056-014-9408-x
- 51. *Vickers, L.A., Larsen, D.R., <u>Knapp, B.O.</u>, Kabrick, J.M., and Dey, D.C. 2014. The impact of overstory density on sapling height growth in the Missouri Ozarks: implications for interspecific differentiation during canopy recruitment. Canadian Journal of Forest Research. 44: 1320-1330. http://dx.doi.org/10.1139/cjfr-2014-0237
- 52. Yang, Y., Fang, J., Ji, C., Datta, A., Li, P., Ma, W., Anwar, M., Shen, H., Hu, H., <u>Knapp, B.O.</u>, and Smith, P. 2014. Stoichiometric shifts in surface soils over broad geographical scale: evidence from China's grasslands. Global Ecology and Biogeography 23: 947-955. http://10.1111/geb.12175

<u>2013</u>

53. Knapp, B.O., Wang, G.G., and Walker, J.L. 2013. Effects of canopy structure and cultural treatments on the survival and growth of *Pinus palustris* Mill. seedlings underplanted in *Pinus taeda* L. stands. Ecological Engineering 57: 46-56. http://dx.doi/org/10.1016/j.ecoleng.2013.04.014

2012

54. Hu, H., Wang, G.G., Walker, J.L., and <u>Knapp, B.O.</u> 2012. Silvicultural treatments for converting loblolly pine to longleaf pine dominance: effects on resource availability and their relationships

- with planted longleaf pine seedlings. Forest Ecology and Management 282: 115-123. http://dx.doi.org/10.1016/j.foreco.2012.07.009
- 55. Hu, H., Wang, G.G., Walker, J.L., and <u>Knapp, B.O.</u> 2012. Silvicultural treatments for converting loblolly pine to longleaf pine dominance: effects on planted longleaf pine seedlings. Forest Ecology and Management 276: 209-216. http://dx.doi.org/10.1016/j.foreco.2012.03.031

2011

56. Knapp, B.O., Wang, G.G., Hu, H., Walker, J.L., and Tennant, C. 2011. Restoring longleaf pine (*Pinus palustris* Mill.) in loblolly pine (*Pinus taeda* L.) stands: effects of restoration treatments on natural loblolly pine regeneration. Forest Ecology and Management 262: 1157-1167. http://dx.doi.org/10.1016/j.foreco.2011.05.044

2008

57. <u>Knapp, B.O.</u>, Wang, G.G., and Walker, J.L. 2008. Relating the survival and growth of planted longleaf pine seedlings to microsite conditions altered by site preparation treatments. Forest Ecology and Management 225: 3768-3777. http://dx.doi.org/10.1016/j.foreco.2008.03.013

2006

- 58. <u>Knapp, B.O.</u>, Wang, G.G., Walker, J.L., and Cohen, S. 2006. Effects of site preparation treatments on early growth and survival of planted longleaf pine (*Pinus palustris* Mill.) seedlings in North Carolina. Forest Ecology and Management 223: 122-128. http://dx.doi.org/10.1016/j.foreco.2006.01.029
- 59. <u>Knapp, B.O.</u>, Wang, G.G., Van Lear, D.H., and Walker, J.L. 2006. Predicting root biomass of burned and unburned white oak advance reproduction from diameter and height. Southern Journal of Applied Forestry 30: 40-45.

Book Chapters

I am an author of 3 published book chapters.

- 1. Jack, S.B., <u>Knapp, B.O.</u>, and McIntyre, R.K. 2023. Ecological silviculture for longleaf pine woodlands in the southeastern U.S. In: Palik, B., D'Amato, A. (editors). Ecological Silvicultural Systems: Exemplary Models for Adaptive Management. Wiley.
- 2. Stambaugh, M.C., <u>Knapp, B.O.</u>, Dey, D.C. 2021. Fire ecology and management of the western Central Hardwoods. In: Greenberg, C.H., Collins, B. (editor). Fire Ecology and Management: Past, Present, and Future Fire Ecology and Management across US Forested Ecosystems. Managing Forest Ecosystems, vol. 39. Springer. https://doi.org/10.1007/978-3-030-73267-7 5
- 3. Hanberry, B.B., Kabrick, J.M., Dunwiddie, P.W., Hartel, T., Jain, B., <u>Knapp, B.O.</u> 2017. Restoration of temperate savannas and woodlands. Murphy, S. and Allison, S. (editors). Routledge Handbook of Ecological and Environmental Restoration. New York, NY. 142-157.

Technical Book Chapters

I have been an author of 5 technical book chapters.

1. Vickers, L.A., Royo, A., Stout, S.L., Ristau, T. Oldland, W.K., <u>Knapp, B.O.</u>, Pile Knapp, L.S., Hille, A. 2025. Evaluating the extent and severity of black cherry regeneration declines in eastern forests and exploring potential causes. In: Conkling, B.L.; Pandit, K. eds. Forest Health

- Monitoring: Evaluation Monitoring project summaries 2023. Gen. Tech. Rep. WO-105a. Washington, DC: U.S. Department of Agriculture, Forest Service: 9-16. Chapter 2.
- 2. Vickers, L.A., <u>Knapp, B.O.</u>, Dey, D.C., Pile Knapp, L.S. 2025. Do forest health issues in eastern upland oak forests affect oak regeneration and recruitment? In: Conkling, B.L.; Pandit, K. eds. Forest Health Monitoring: Evaluation Monitoring project summaries 2023. Gen. Tech. Rep. WO-105a. Washington, DC: U.S. Department of Agriculture, Forest Service: 17-24. Chapter 3.
- 3. Dey, D.C., Larsen, D., Kabrick, J., <u>Knapp, B.O.</u>, Shifley, S., and Olson, M. 2014. Generally accepted principles of silviculture. In: Bill, M. (compiler). Missouri Forest Management Guidelines, Missouri Department of Conservation. Jefferson City, MO. 87-104.
- 4. <u>Knapp, B.O.</u>, Dey, D.C., Larsen, D., Kabrick, J., Shifley, S., and Olson, M. 2014. The fundamentals of forest regeneration. In: Bill, M. (compiler). Missouri Forest Management Guidelines, Missouri Department of Conservation. Jefferson City, MO. 105-116.
- 5. Larsen, D., Dey, D.C., Kabrick, J., <u>Knapp, B.O.</u>, Shifley, S., and Olson, M. 2014. Tending treatments. In: Bill, M. (compiler). Missouri Forest Management Guidelines, Missouri Department of Conservation. Jefferson City, MO. 119-124.

Conference Proceedings – †denotes the conference proceedings were peer-reviewed; *denotes student advisee

I have published 24 conference proceedings, of which 20 were peer-reviewed.

2024

- †*Fillingim, H.M., <u>Knapp, B.O.</u>, Dey, D.C., Stambaugh, M.C., Kabrick, J.M., and Elliott, G.P. 2024. Growth response to competition and prescribed fire in planted shortleaf pine. In: Bragg, D.C., Oswald, B.P, Koerth, N.E. (eds.). Proceedings of the 22nd Biennial Southern Silvicultural Research Conference. Gen. Tech. Rep. SRS-274. U.S. Department of Agriculture, Forest Service, Southern Research Station. Asheville, NC. pp 138-145.
- 2. †*Hayford, I., and Knapp, B.O. 2024. Factors affecting natural oak regeneration in bottomland hardwood forests in northern Missouri: light levels, acorn losses, or lack of acorns? In: Bragg, D.C., Oswald, B.P, Koerth, N.E. (eds.). Proceedings of the 22nd Biennial Southern Silvicultural Research Conference. Gen. Tech. Rep. SRS-274. U.S. Department of Agriculture, Forest Service, Southern Research Station. Asheville, NC. pp 99-107.
- 3. †Knapp, B.O. and Jack, S.B. 2024. Reconstructing stand dynamics of a shortleaf pine-oak woodland in east Texas: a case study. In: Bragg, D.C., Oswald, B.P, Koerth, N.E. (eds.). Proceedings of the 22nd Biennial Southern Silvicultural Research Conference. Gen. Tech. Rep. SRS-274. U.S. Department of Agriculture, Forest Service, Southern Research Station. Asheville, NC. pp 156-162.
- 4. †Puhlick, J.J., <u>Knapp, B.O.</u>, Goldberg, I., Rutledge, B.T., Taylor, R.S., and Willis, J.L. 2024. Silvicultural strategies for promoting longleaf pine recruitment in multiaged stands. In: Bragg, D.C., Oswald, B.P, Koerth, N.E. (eds.). Proceedings of the 22nd Biennial Southern Silvicultural Research Conference. Gen. Tech. Rep. SRS-274. U.S. Department of Agriculture, Forest Service, Southern Research Station. Asheville, NC. pp 311-316.

2022

5. †Kabrick, J.M., Hanberry, B.B., Dey, D.C., <u>Knapp, B.O.</u>, Larsen, D.R., Pile Knapp, L.S. 2022. Adapting Gingrich stocking guides for managing oak woodlands and savannas. In: Jain, T.B., Schuler, T.M. (comp.) Foundational concepts in silviculture with emphasis on reforestation and early stand improvement – 2022 National Silviculture Workshop Proceedings. RMRS-P-80. Fort

Collins, CO: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station. 5 p.

2020

- 6. †*Crouch, C.D., <u>Knapp, B.O.</u>, Stambaugh, M.C., Cohen, S. Walker, J.L., Wang, G.G. 2020. Site preparation for longleaf pine restoration on hydric sites: tree- and stand-level responses 15 years after planting. Bragg, D.C., Koerth, N.E., Holley, A.G. eds. Proceedings of the 20th Biennial Southern Silvicultural Research Conference. e-Gen. Tech. Rep. SRS-253. U.S. Department of Agriculture, Forest Service, Southern Research Station. Asheville, NC.
- 7. †Kabrick, J.M., Clark, K.L., D'Amato, A.W., Munoz Delgado, B.L., Dey, D.C., Kenefic, L.S., Kern, C.C., Keyser, T.L., <u>Knapp, B.O.</u>, MacLean, D.A., Raymond, P., Schweitzer, C.J., Vickers, L.A. 2020. Research and management partnerships for resolving regeneration and recruitment challenges in hardwood-softwood mixtures in eastern North America. In: Pile, L.S., Deal, R.L., Dey, D.C., Gwaze, D., Kabrick, J.M., Palik, B.J., Schuler, T.M. (comps.) The 2019 National Silviculture Workshop: a focus on forest management-research partnerships. Gen. Tech. Rep. NRS-P-193: U.S. Department of Agriculture, Forest Service, Northern Research Station, Madison, WI.

<u>2019</u>

- 8. †Dey, D.C., <u>Knapp, B.O.</u>, and Stambaugh, M.C. 2019. Silviculture to restore oak woodlands and savannas. Clark, S.L.; Schweitzer, C.J. eds. Oak Symposium: Sustaining Oak Forests in the 21st Century through Science-based Management. e-Gen. Tech. Rep. SRS-237. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. pp 125-137.
- Knapp, B.O., Stambaugh, M.C., and Dey, D.C. 2019. Practical considerations for long-term maintenance of oak woodlands. Clark, S.L.; Schweitzer, C.J. eds. Oak Symposium: Sustaining Oak Forests in the 21st Century through Science-based Management. e-Gen. Tech. Rep. SRS-237. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. pp 138-140.
- 10. Stambaugh, M.C., Dey, D.C., and <u>Knapp, B.O.</u> 2019. Applied historical ecology: bringing perspective and questions about oak woodland ecology and management. Clark, S.L.; Schweitzer, C.J. eds. Oak Symposium: Sustaining Oak Forests in the 21st Century through Science-based Management. e-Gen. Tech. Rep. SRS-237. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. pp 123-124.

- 11. †*Ghilardi, C.R., <u>Knapp, B.O.</u>, He, H.S., Larsen, D.R., and Kabrick, J.M. 2017. Evaluation of the Fire and Fuels Extension of the Forest Vegetation Simulator within the Missouri Ozarks. Proceedings of 2017 Forest Vegetation Simulator (FVS) e-Conference. e-Gen. Tech. Rep. SRS-224. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 94-97.
- 12. †*Good, G.T., Knapp, B.O., *Vickers, L.A., Larsen, D.R., and Kabrick, J.M. 2017. Evaluation of sapling height development and intraspecific differentiation after clearcut and group harvests in the Missouri Ozarks. In: Kabrick, J.M., Dey, D.C., Knapp, B.O., Larsen, D.R., Shifley, S.R., and Stelzer, H.E. (eds.). Proceedings of the 20th Central Hardwood Forest Conference. Gen. Tech. Rep. NRS-P-167. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 78-86.
- 13. † Knapp, B.O., Marschall, J.M., and Stambaugh, M.C. 2017. Effects of long-term prescribed burning on timber value in hardwood forests of the Missouri Ozarks. In: Kabrick, J.M., Dey, D.C., Knapp, B.O., Larsen, D.R., Shifley, S.R., and Stelzer, H.E. (eds.). Proceedings of the 20th Central

- Hardwood Forest Conference. Gen. Tech. Rep. NRS-P-167. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 304-313.
- 14. †Olson, M.G. and <u>Knapp, B.O.</u> 2017. Stump sprouting dynamics during stand initiation under alternative silvicultural treatments in a Midwestern bottomland, mixed-species hardwood forest. In: Kabrick, J.M., Dey, D.C., Knapp, B.O., Larsen, D.R., Shifley, S.R., and Stelzer, H.E. (eds.). Proceedings of the 20th Central Hardwood Forest Conference. Gen. Tech. Rep. NRS-P-167. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 99-109.

<u>2016</u>

- 15. †Knapp, B.O., Wang, G.G., Walker, J.L., and Addington, R.N. 2016. Fate of residual canopy trees following harvesting to underplant longleaf pine seedlings in loblolly pine stands in Georgia. In: Schweitzer, C.J.; Clatterbuck, W.K.; Oswalt, C.M. (eds.). Proceedings of the 18th Biennial Southern Silvicultural Research Conference. E-Gen. Tech. Rep. SRS-212. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 60-67.
- 16. †*Vickers, L.A., Larsen, D.R., Kabrick, J.M., Dey, D.C., and <u>Knapp, B.O.</u> 2016. A collection of sprouting parameters for simulating regeneration establishment in the Missouri Ozarks. In: Schweitzer, C.J.; Clatterbuck, W.K.; Oswalt, C.M. (eds.). Proceedings of the 18th Biennial Southern Silvicultural Research Conference. E-Gen. Tech. Rep. SRS-212. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 238-244.
- 17. †Wang, G.G., Pile, L.S., <u>Knapp, B.O.</u>, and Hu, H. 2016. Longleaf pine adaptation to fire: is early height growth pattern critical to fire survival? In: Schweitzer, C.J.; Clatterbuck, W.K.; Oswalt, C.M. (eds.). Proceedings of the 18th Biennial Southern Silvicultural Research Conference. E-Gen. Tech. Rep. SRS-212. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 214-218.

2015

18. † Knapp, B.O., Wang, G.G., Walker, J.L., and Hu, H. 2015. From loblolly to longleaf: fifth-year results of a longleaf pine restoration study at two ecologically distinct sites. In: Holley, A.G., Connor, K.F., and Haywood, J.D. (eds.). Proceedings of the 17th Biennial Southern Silvicultural Research Conference. Gen. Tech. Rep. SRS-203. USDA Forest Service, Southern Research Station. 470-472.

- 19. †Kabrick, J.M., Dey, D.C., Kinkead, C.O., <u>Knapp, B.O.</u>, Leahy, M., Olson, M.G., Stambaugh, M.C., and Stevenson, A. 2014. Silvicultural considerations for managing fire-dependent oak woodland ecosystems. In: Groninger, J.W., Holzmueller, E.J., Nielsen, C.K., and Dey, D.C. (eds.). Proceedings, 19th Central Hardwood Forest Conference. Gen. Tech. Rep. NRS-P-142. USDA Forest Service, Northern Research Station. 2-15.
- 20. †Olson, M.G., Stevenson, A., <u>Knapp, B.O.</u>, Kabrick, J.M., and Jensen, R.G. 2014. Is there evidence of mesophication of oak forests in the Missouri Ozarks? In: Groninger, J.W., Holzmueller, E.J., Nielsen, C.K., and Dey, D.C. (eds.). Proceedings, 19th Central Hardwoods Forest Conference. Gen. Tech. Rep. NRS-P-142. USDA Forest Service, Northern Research Station. 139-153.
- 21. *Vickers, L.A., Larsen, D.R., Dey, D.C., Kabrick, J.M., and <u>Knapp, B.O.</u> 2014. A potential quantitative method for assessing individual tree performance. In: Groninger, J.W., Holzmueller, E.J., Nielsen, C.K., and Dey, D.C. (eds.). Proceedings, 19th Central Hardwoods Forest Conference. Gen. Tech. Rep. NRS-P-142. USDA Forest Service, Northern Research Station. 201.

2013

- 22. †Hu, H., <u>Knapp, B.O.</u>, Wang, G.G., and Walker, J.L. 2013. Effects of canopy treatments on first year growth of planted longleaf pine seedlings: a preliminary study. In: Guldin, J.M. (ed.) Proceedings of the 15th Biennial Southern Silvicultural Research Conference. Gen. Tech. Rep. SRS-175. USDA Forest Service, Southern Research Station. 157-161.
- 23. † Knapp, B.O., and Walker, J.L. 2013. Using existing growth models to predict RCW habitat development following site preparation: pitfalls of the process and potential growth response. In: Guldin, J.M. (ed.). Proceedings of the 15th Biennial Southern Silvicultural Research Conference. Gen. Tech. Rep. SRS-175. USDA Forest Service, Southern Research Station. 499-506.

2010

24. † Knapp, B.O., Wang, G.G., and Walker, J.L. 2010. Artificially regenerating longleaf pine on wet sites: preliminary analysis of effects of site preparation treatments on early survival and growth. In: Stanturf, J.A. (ed.). Proceedings of the 14th Biennial Southern Silvicultural Research Conference. Gen. Tech. Rep. SRS-121. Asheville, NC: U.S. Department of Agriculture, Forest Service, Southern Research Station. 247-251.

Reports – †denotes the report was peer-reviewed I have published 4 reports, of which 1 was peer-reviewed.

- 1. Shifley, S.R., Huffman, A., <u>Knapp, B.O.</u>, and Stelzer, H.E. 2024. Carbon and biomass dynamics in Missouri forests and implications for climate change. University of Missouri. 32 p.
- 2. Walker, J.L., Wang, G.G., <u>Knapp. B.O.</u>, Hu, H. 2017. Establishing longleaf pine seedlings under a loblolly pine canopy (user's guide). Strategic Environmental Research and Development Program. 29 p.
- 3. Shifley, S., <u>Knapp, B.O.</u>, Kabrick, J. 2013. Summary report for change in basal area from 1991 to 2010 for the Missouri Ozark Forest Ecosystem Project. Report produced for the Missouri Forest Products Association, Jefferson City, MO. 48 p.
- 4. †Wang, G.G., <u>Knapp, B.O.</u>, Clark, S.L., and Mudder, B.T. 2013. The silvics of *Castanea dentata* (Marsh.) Borkh., American chestnut, Fagaceae (beech family). General Technical Report SRS-173. USDA Forest Service, Southern Research Station, Asheville, NC. 18 p.

ORAL PRESENTATIONS

Invited Presentations

I have authored 23 invited oral presentations.

- 1. <u>Knapp, B.O.</u> 2025. Practical considerations and knowledge gaps for long-term maintenance of oak woodlands. Allegheny Society of American Foresters Winter Training. February 13, 2025, State College, PA.
- 2. <u>Knapp, B.O.</u>, Shifley, S.R., Huffman, A., and Stelzer, H. 2024. Carbon and biomass dynamics in Missouri forests and implications for climate change. Missouri Forest Products Association Summer Meeting. July 27, 2024, Branson, MO.
- 3. <u>Knapp, B.O.</u> and Kabrick, J.M. 2023. Climate-smart forestry: the role of forest management in terrestrial carbon dynamics. Missouri Forest Products Association Summer Meeting. July 29, 2023, Branson, MO.
- 4. <u>Knapp, B.O.</u> 2023. Balancing objectives: effects of managing stand density on carbon dynamics. Northeast-Midwest State Foresters Alliance Meeting. May 25, 2023.

5. <u>Knapp, B.O.</u> 2023. Is underplanting a viable option for regeneration? Lessons from pine and oak forests of the eastern US. Pennsylvania Forest Health, Insect, and Disease Briefing. March 14, 2023, State College PA.

- 6. <u>Knapp, B.O.</u> 2023. Practical considerations for long-term maintenance of oak woodlands. Indiana Society of American Foresters Winter Meeting. February 24, 2023, Nashville, IN.
- 7. <u>Knapp</u>, B.O., 2021. Frequent fire and tree regeneration in eastern forest ecosystems: implications for stand development and age structure. Northern Arizona University seminar series. September 29, 2021.
- 8. <u>Knapp, B.O.</u>, Vickers, L.A. 2021. White oak status and challenges. Forestry Summit, August 10, 2021, Columbia, MO.
- 9. <u>Knapp, B.O.</u>, Kabrick, J.M. 2020. Current shortleaf pine research collaborations of US Forest Service and University of Missouri. Shortleaf Pine Initiative Meeting, January 30, 2020, West Plains, MO.
- 10. Shifley, S., Kabrick, J., Dey, D., and <u>Knapp, B.O.</u> 2019. A leisurely look at the history of shortleaf pine research and development in Missouri. 5th Biennial Shortleaf Pine Conference. October 1-3, 2019. Van Buren, MO.
- 11. <u>Knapp, B.O.</u> 2018. Underplanting shade intolerant southern pine species: an oxymoron or ecological approach to regeneration? 2018 International Conference on Protective Forests. August 2-5, 2018. Shenyang, China.
- 12. <u>Knapp, B.O.</u> 2018. Use of silviculture for ecological restoration of pine and oak woodland ecosystems of the eastern United States. July 16, 2018. Center for International Forestry Research, Seminar Series. Bogor Indonesia.
- 13. Stambaugh, M.C., Dey, D.C., and <u>Knapp, B.O.</u> 2017. Applied historical ecology of oak woodlands. Oak Symposium: Sustaining Oak Forests in the 21st Century through Science-based Management. October 24-26, 2017. Knoxville, TN.
- 14. Dey, D.C., <u>Knapp, B.O.</u>, and Stambaugh, M.C., 2017. Silviculture approaches to restoring oakpine woodlands and savannas. Oak Symposium: Sustaining Oak Forests in the 21st Century through Science-based Management. October 24-26, 2017. Knoxville, TN.
- 15. <u>Knapp, B.O.</u>, Stambaugh, M.C., Dey, D.C., and Kabrick, J.M. 2017. Practical considerations for long-term maintenance of oak woodlands. Oak Symposium: Sustaining Oak Forests in the 21st Century through Science-based Management. October 24-26, 2017. Knoxville, TN.
- 16. <u>Knapp, B.O.</u> 2017. Repeated burning in oak woodlands: long-term prescribed fire effects on forest stand development in the Missouri Ozarks. September 29, 2017. Fire and Forest Management in Middle Tennessee. University of Tennessee, Tullahoma, TN.
- 17. Dey, D.C., Battaglia, M., Deal, R., <u>Knapp, B.O.</u>, O'Hara, K., Schuler, T., and Schweitzer, C.J. 2017. Barriers to natural regeneration. Reforestation Matters Workshop: Understanding the Costs of Inadequate Reforestation. April 12-13, 2017. Portland, OR.
- 18. <u>Knapp, B.O.</u> 2016. Striking a balance in woodland management: effects of fire on forest regeneration in eastern woodland ecosystems. June 30, 2016. Joseph W. Jones Ecological Research Center 2016 Seminar Series. Ichauway, GA.
- 19. <u>Knapp, B.O.</u> 2015. Balancing ecosystem processes and ecosystem services: regenerating trees in woodlands. October 19, 2015. Department of Forestry Fall Seminar Series, University of Kentucky, Lexington, KY.
- 20. <u>Knapp, B.O.</u> 2015. Restoration potential: what is it, and what are the implications? January 7-9, 2015. Challenges and Priorities for Managing Frequent Fire Conifer Ecosystems. Joseph W. Jones Ecological Research Center, Newton, GA.

21. <u>Knapp, B.O.</u> 2014. Effects of fire on forest regeneration: implications for restoration and management with prescribed burning. November 7, 2014. Department of Forestry Fall Seminar Series, University of Missouri. Columbia, MO.

- 22. <u>Knapp, B.O.</u>, Wang, G.G., Pile, L.S., and Walker, J.L. 2013. Fire effects on grass stage longleaf pine seedlings. September 19, 2013. South Carolina Prescribed Fire Council Annual Meeting. Brosnan Forest, Dorchester, SC.
- 23. <u>Knapp, B.O.</u>, Walker, J.L., and Wang, G.G. 2009. Early effects of overstory harvest on planted longleaf pine seedlings, resource availability, and understory vegetation. Presentation to land managers of Fort Benning, GA. August 27, 2009. Fort Benning, GA.

Professional Conferences – *denotes student advisee ‡denotes student competition award I have been an author on 107 oral presentations at professional conferences, of which student advisees have delivered 38 and I have delivered 31.

2025

- 1. Fillingim, H., and <u>Knapp, B.O.</u> 2025. Survival and sprouting of shortleaf pine seedlings growing individually or in clusters following prescribed burning in southern MO. 23rd Biennial Southern Silvicultural Research Conference. March 18-20, 2025. Greenville, SC.
- 2. <u>Knapp, B.O.</u>, Anderson, S., and Kabrick, J.M. 2025. Balancing forest management objectives: effects of stand density on carbon dynamics. 23rd Biennial Southern Silvicultural Research Conference. March 18-20, 2025. Greenville, SC.
- 3. *Kronenberg, R., <u>Knapp, B.O.</u>, and Bardhan, S. 2025. Changes in forest understory plant communities in response to the establishment of a forest farm. Missouri Natural Resources Conference. February 19-21, 2025. Osage Beach, MO.

- 4. Vickers, L.A., <u>Knapp, B.O.</u>, Lhotka, J.M., Stringer, J.W., Goff, T.C., and Morin, R.S. 2024. White oak population trends distilling regeneration, recruitment, growth, and drain concerns across the range. The International Oak Symposium: Science-Based Management for Dynamic Oak Forests. October 7-10, 2024. Knoxville, TN.
- 5. *Vaughan, I., <u>Knapp, B.O.</u>, Gardiner, E.S., Kabrick, J.M., and Davis, M. 2024. Effects of dormant season flooding on pin oak (*Quercus palustris*) root growth. The International Oak Symposium: Science-Based Mangement for Dynamic Oak Forests. October 7-10, 2024. Knoxville, TN.
- 6. Puhlick, J., <u>Knapp, B.O.</u> 2024. Creating and maintaining resiliency in mature longleaf pine woodlands. National Silviculture Workshop. July 16-18, 2024. Tacoma, WA.
- 7. Pile Knapp, L.S., Fassler, A.B., Davis, M., Dey, D.C., Kabrick, J.M., King, D., <u>Knapp, B.O.</u>, Lerman, S., Page-Dumroese, D., Rumpf, W., and Scott, S. 2024. Log landings are for the bees: a case study in the coproduction of actionable science to benefit native pollinators. National Silviculture Workshop. July 16-18, 2024. Tacoma, WA.
- 8. <u>Knapp, B.O.</u> 2024. Opportunities and challenges for white oak in the western Central Hardwoods. Central Hardoods Forest Conference. March 12, 2024. Lexington, KY.
- 9. Pile Knapp, L.S., <u>Knapp, B.O.</u>, Newbold, C., and Demand, J. 2024. Controlling sericea lespedeza (*Lespedeza cuneata*) populations across prairie reconstructions requires sustained management. Central Hardwoods Conference. March 12, 2024. Lexington, KY.
- 10. Pile Knapp, L.S., <u>Knapp, B.O.</u>, Newbold, C., Demand, J. 2024. Controlling sericea lespedeza (*Lespedeza cuneata*) populations across prairie reconstructions requires sustained management. Missouri Natural Resources Conference. February 7, 2024. Osage Beach, MO.

2023

- 11. *Scott, S., <u>Knapp, B.O.</u>, Pile Knapp, L.S. 2023. Pollinator habitat in log landings (PhiLL) project. Society of American Foresters National Convention. October 25-28, 2023. Sacramento, CA.
- 12. <u>Knapp, B.O.</u>, Kabrick, J.M., and Fraser, J. 2023. Frequent fire effects on tree regeneration and implications for stand dynamics in oak woodlands of the western Central Hardwood Region. Society of American Foresters National Convention. October 25-28, 2023. Sacramento, CA.
- 13. Puhlick, J., <u>Knapp, B.O.</u>, Goldberg, I., Rutledge, B.T., Taylor, R.S., Willis, J.L. 2023. Silvicultural strategies for promoting longleaf pine recruitment in multi-aged stands. Biennial Southern Silvicultural Research Conference. March 21-23, 2023. Nacogdoches, TX.
- 14. <u>Knapp, B.O.</u>, Anderson, S., Kabrick, J.M. 2023. Mitigation: thinning effects on carbon using local examples. Missouri Natural Resources Conference. February 7-9, 2023. Osage Beach, MO.
- 15. *Fillingim, H., <u>Knapp, B.O.</u>, Kabrick, J.M. 2023. Sprouting dynamics of shortleaf pine and oak regeneration following prescribed fire in the Missouri Ozarks. Missouri Natural Resources Conference. February 7-9, 2023. Osage Beach, MO.
- 16. *Hayford, I., <u>Knapp, B.O.</u>, Buchanan, M., Graham, B. 2023. Effects of silvicultural release and environmental conditions on oak regeneration in northern Missouri bottomland forests. Missouri Natural Resources Conference. February 7-9, 2023. Osage Beach, MO.
- 17. *Maddox, D., Pile Knapp, L., <u>Knapp, B.O.</u>, Vickers, L., Dey, D., Fraser, J. 2023. Quantifying the abundance of nonnative invasive woody plants and their response to seasonal removal. Missouri Natural Resources Conference. February 7-9, 2023. Osage Beach, MO.

- 18. *Vickers, L.A., Royo, A., Stout, S., Pile Knapp, L.S., <u>Knapp, B.O.</u> 2022. Rise and fall: evaluating the extent and magnitude of regeneration successes and failures for black cherry and sweet birch in the Alleghenies and beyond. Society of American Foresters National Convention. September 20-24, 2022. Baltimore, MD.
- 19. *Vickers, L.A., <u>Knapp, B.O.</u>, Dey, D.C. 2022. Do forest health issues in oak forests accelerate compositional shifts to non-oaks Society of American Foresters National Convention. September 20-24, 2022. Baltimore, MD.
- 20. *Fillingim, H., <u>Knapp, B.O.</u> 2022. Sprouting dynamics of shortleaf pine and oak regeneration following prescribed fire in the Missouri Ozarks. Central Hardwood Forest Conference. April 6-8, 2022, Morgantown, WV.
- 21. *Harpold, T., <u>Knapp, B.O.</u> 2022. Uneven-aged management in the Missouri Ozarks: effects of stocking and site condition on oak regeneration. Central Hardwood Forest Conference. April 6-8, 2022, Morgantown, WV.
- 22. *Hayford, I., <u>Knapp, B.O.</u>, Buchanan, M., Graham, B. 2022. Effects of silvicultural release and environmental conditions on oak regeneration in northern Missouri bottomland forests. Central Hardwood Forest Conference. April 6-8, 2022, Morgantown, WV.
- 23. <u>Knapp, B.O.</u>, Maginel, C., Graham, B., Kabrick, J.M., Dey, D.C., 2022. Does frequent, landscape-scale burning inhibit tree recruitment in Central Hardwood forests? Central Hardwood Forest Conference. April 6-8, 2022, Morgantown, WV.
- 24. *Maddox, D., <u>Knapp, B.O.</u>, Pile Knapp, L.S., Kabrick, J., Dey, D., Newbold, C. 2022. Oak woodland ground flora composition restoration in a recently thinned, degraded oak woodland. Central Hardwood Forest Conference. April 6-8, 2022, Morgantown, WV.
- 25. *Vickers, L.A., Royo, A., Stout, S., Pile Knapp, L.S., <u>Knapp, B.O.</u> 2022. Rise and fall: evaluating the extent and magnitude of regeneration successes and failures for black cherry and sweet birch in

- the Alleghenies and beyond. Central Hardwood Forest Conference. April 6-8, 2022, Morgantown, WV.
- 26. *Vickers, L.A., <u>Knapp, B.O.</u>, Dey, D.C. 2022. Do forest health issues in oak forests accelerate compositional shifts to non-oaks? Central Hardwood Forest Conference. April 6-8, 2022, Morgantown, WV.
- 27. *Harpold, T., <u>Knapp, B.O.</u> 2022. Uneven-aged management in the Missouri Ozarks: effects of stocking and site condition on oak regeneration. Missouri Natural Resources Conference. February 2-4, 2022, Osage Beach, MO.
- 28. *Maddox, D., <u>Knapp, B.O.</u>, Dey, D.C., Kabrick, J.M., Pile Knapp, L.S. 2022. Seeding native woodland understory species over a gradient of light in a recently thinned oak woodland to restore native woodland understory composition. Missouri Natural Resources Conference. February 2-4, 2022, Osage Beach, MO.
- 29. *Vaughan, I., <u>Knapp, B.O.</u>, Gardiner, E., Kabrick, J.M., Davis, M. 2022. Determining the effects of dormant season flooding on pin oak root development. Missouri Natural Resources Conference. February 2-4, 2022, Osage Beach, MO.
- 30. *Vickers, L.A., <u>Knapp, B.O.</u>, Dey, D.C. 2022. Do forest health issues in oak forests accelerate compositional shifts to non-oaks? Missouri Natural Resources Conference. February 2-4, 2022, Osage Beach, MO.

- 31. *Fillingim, H., <u>Knapp, B.O.</u>, Kabrick, J.M. 2021. Competition dynamics of shortleaf pine seedlings planted for restoring oak-pine mixtures. Society of American Foresters National Convention. November 3-6, 2021.
- 32. *Harpold, T., <u>Knapp, B.O.</u> 2021. Uneven-aged management in the Missouri Ozarks: effects of stocking and site conditions on oak regeneration. Society of American Foresters National Convention. November 3-6, 2021.
- 33. *Hayford, I., <u>Knapp, B.O.</u>, Buchanan, M. 2021. Effects of silvicultural release and environmental conditions on oak regeneration in northern Missouri bottomland forests. Society of American Foresters National Convention. November 3-6, 2021.
- 34. <u>Knapp, B.O.</u>, Anderson, S., Kabrick, J.M. 2021. Effects of stand density on carbon dynamics in shortleaf pine and upland oak forests. Society of American Foresters National Convention. November 3-6, 2021.
- 35. Kenefic, L.S., Kabrick, J.M., <u>Knapp, B.O.</u>, Raymond, P., Clark, K.C., D'Amato, A.W., Kern, C.C., Vickers, L.A., Dey, D.C., Rogers, N.S. 2021. Managing mixedwoods with a shade-tolerant softwood component in the northeastern US. Society of American Foresters National Convention. November 3-6, 2021.
- 36. Nilon, C., <u>Knapp, B.O.</u>, Rotman, R., Saunders, L. 2021. National Needs Fellowship in Forest Resource Management. Missouri Natural Resources Conference. February 2-4, 2021.
- 37. <u>Knapp, B.O.</u>, Wang, S., Ehlers, S., Graham, B., Gao, S., Timm, S. 2021. Forest management effects on downed dead wood in hardwood forests of Missouri. Missouri Natural Resources Conference. February 2-4, 2021.
- 38. *Maddox, D., <u>Knapp, B.O.</u>, Pile Knapp, L.S., Kabrick, J.M., Dey, D.C., Newbold, C. 2021. Reintroduction of macroflora to a restoraed prairie and a degraded woodland: a tale of trees and seeds. Missouri Natural Resources Conference. February 2-4, 2021.
- 39. *Hayford, I., <u>Knapp, B.O.</u>, and Kabrick, J.M. 2021. Evaluating the intial resposnes of natural and artificial pin oak regeneration to midstory and understory competition control and subsequent

overstory release in bottomland hardwood forest in southern Missouri. Missouri Natural Resources Conference. February 2-4, 2021.

2020

- 40. Pile, L.S., Coyle, D., Dey, D., Hutchinson, T., Jenkins, M., Kern, C., <u>Knapp, B.O.</u>, Pinchot, C., Rebbeck, J., Wheeler, G., Wang, G.G. 2020. Nonnative invasive plant management in eastern North American forests: a systematic review and meta-analysis. Society of American Foresters National Convention. October 29, 2020. Virtual
- 41. Kabrick, J.M., Raymond, P., Kenefic, L.S., <u>Knapp, B.O.</u>, Vickers, L.A., Dey, D.C. 2020. A conceptual framework for identifying silvicultural practices for temperate mixedwood management in eastern North America. Society of American Foresters National Convention. October 29, 2020. Virtual
- 42. Knapp, B.O., Wang, S., Ehlers, S., Graham, B., Gao, S., Timm S. 2020. Forest management effects on downed dead wood in hardwood forests of Missouri. Society of American Foresters National Convention. October 29, 2020. Virtual
- 43. <u>Knapp, B.O.</u>, *Curtin, P.J., Jack, S.B. 2020. Recruiting under a canopy: effects of stand density on patterns of height growth, suppression, and release of longleaf pine in southwestern GA. 13th Biennial Longleaf Conference. October 20-23, 2020. Virtual
- 44. <u>Knapp, B.O.</u>, Maginel, C., Buchanan, M. 2020. Landscape-scale burning and tree regeneration. Missouri Natural Resources Conference. February 6, 2020. Osage Beach, MO.
- 45. Dee, J.R., <u>Knapp, B.O.</u>, and Olson, E. 2020. Long-term effects of forest management on the composition of ground flora within the Missouri Ozark Forest Ecosystem Project (MOFEP). Missouri Natural Resources Conference. February 6, 2020. Osage Beach, MO.

- 46. *Crouch, C.D., <u>Knapp, B.O.</u>, Cohen, S.A., Walker, J.L., and Wang, G.G. 2019. Longleaf pine restoration on hydric sites: long-term vegetation responses to site preparation. Society of American Foresters National Convention. October 30-November 3, 2019. Louisville, KY.
- 47. <u>Knapp, B.O.</u>, Kabrick, J.M., Dey, D.C., and Vickers, L.A. 2019. Using regeneration ecology to understand development and maintenance of shortleaf pine-oak mixedwoods of Missouri, USA. 12th North American Forest Ecology Workshop. June 23-27, 2019. Flagstaff, AZ.
- 48. <u>Knapp, B.O.</u>, Dey, D.C., Kabrick, J.M., *Maginel, C.J., Pile, L.S., and Wang, G.G. 2019. Balancing ecosystem processes: dynamics of tree regeneration in frequent-fire woodland ecosystems of the eastern USA. 12th North American Forest Ecology Workshop. June 23-27, 2019. Flagstaff, AZ.
- 49. Kabrick, J.M., Clark, K.L, Dey, D.C., Kenefic, L.S., Kern, C.C., Munoz-Delgado, D.L., Keyser, T.L., Schweitzer, C.J., <u>Knapp, B.O.</u>, MacLean, D.A., Raymond, P., D'Amato, A.W. 2019. Research and management partnernships for resolving regeneration and recruitment challenges in hardwood-softwood mixtures. National Silviculture Workshop. May 21-23, 2019. Bemidji, MN.
- 50. Wang, G.G., Pile, L.S., <u>Knapp, B.O.</u>, Blood, B.L., Stambaugh, M.C., Hutchinson, T.F., Dickinson, M.B., and Dey, D.C. 2019. Prescribed fire in eastern forests: are we using the right frequency prescription? National Silviciture Workshop. May 21-23, 2019. Bemidji, MN.
- 51. *‡Crouch, C.D., <u>Knapp, B.O.</u>, Stambaugh, M.C., Cohen, S.A., Walker, J.L., and Wang, G.G. 2019. Site preparation for longleaf pine restoration on hydric sites: tree-level and stand-level responses 15 years following planting. 20th Biennial Southern Silvicultural Research Conference. March 12-14, 2019. Shreveport, LA.
- 52. *Lyczak, S., Kabrick, J.M., Larsen, D.R., Walter, W.W., Dey, D.C., and <u>Knapp, B.O.</u> 2019. Increasing the survival probability, height growth, and diameter growth of 1-0 bareroot shortleaf

- pine seedlings through genetic selection, site preparation, and vegetation control. 20th Biennial Southern Silvicultural Research Conference. March 12-14, 2019. Shreveport, LA.
- 53. Blood, B.L., *Wachuta, M., <u>Knapp, B.O.</u>, Dey, D.C., and Wang, G.G. 2019. Modeling fire-induced tree mortality for eastern hardwood forests: evaluating and refining the First Order Fire Effects Model. 20th Biennial Southern Silvicultural Research Conference. March 12-14, 2019. Shreveport, LA.
- 54. <u>Knapp, B.O.</u>, *Anderson, S.E., *Curtin, P.J., *Ghilardi, C., and *Rives, R.G. 2019. Can clearcut harvest reset long-term successional trajectories of hardwood forests of mid-Missouri? Missouri Natural Resources Conference. February 5-7, 2019. Osage Beach, MO.
- 55. *Lyczak, S.J., Kabrick, J.M., Dey, D.C., Larsen, D.R., and <u>Knapp, B.O.</u> 2019. Predicting future tree performance and survival of shortleaf pine (*Pinus echinata*) through novel height growth percentiles. Missouri Natural Resources Conference. February 5-7, 2019. Osage Beach, MO.
- 56. Dey, D.C., Kabrick, J.M., <u>Knapp, B.O.</u>, *Lyczak, S.J., Robinson, S., and Stevens, M. 2019. Adaptive management research partnerships to restore shortleaf pine mixedwoods. Missouri Natural Resources Conference. February 5-7, 2019. Osage Beach, MO.
- 57. *Beckerman, T., <u>Knapp, B.O.</u>, Pile, L.S., and Weegman, M. 2019. Wildlife and vegetation responses to legacy effects of land management in mid-Missouri. Missouri Natural Resources Conference. February 5-7, 2019. Osage Beach, MO.

- 58. Kenefic, L., Clark, K., Munoz-Delgado, B., Dey, D., Kabrick, J., Kern, C., Knapp, B., MacLean, D., and Raymond, P. 2018. Challenges to regenerating and recruiting temperate mixedwoods in northeastern and central North America. Eastern Canada USA Forest Science Conference. October 18-20, 2018. Fredericton, New Brunswick, Canada.
- 59. *Crouch, C.D., <u>Knapp, B.O.</u>, Stambaugh, M.C., Cohen, S.A., Walker, J.L., and Wang, G.G. 2018. Site preparation for longleaf pine restoration on hydric sites: tree-level and stand-level responses. Society of American Foresters National Convention. October 3-7, 2018. Portland, OR.
- 60. Blood, B., *Wachuta, M., <u>Knapp, B.O.</u>, Wang, G.G., and Dey, D.C. 2018. Evaluating and refining the First Order Fire Effects Model for use in hardwood forests of the eastern US. The Fire Continuum Conference: Preparing for the Future of Wildland Fire. May 21-24, 2018. Missoula, MT.
- 61. <u>Knapp, B.O.</u>, *Anderson, S.A., *Curtin, P., *Ghilardi, C., and *Rives, R.G. 2018. Can clearcutting reset long-term successional trajectories of hardwood forests of mid-Missouri? 21st Central Hardwood Forest Conference. May 15-17, 2018. Bloomington, IN.
- 62. *Lyczak, S., Kabrick, J., <u>Knapp, B.O.</u>, and Larsen, D. 2018. Effects of organic matter removal, soil compaction, and vegetation control on 22nd year height and survival: LTSP Missouri. 21st Central Hardwood Forest Conference. May 15-17, 2018. Bloomington, IN.
- 63. Vickers, L.A., McWilliams, W.H., and <u>Knapp, B.O.</u> 2018. Examining forest regeneration across the northern United States using the FIA Regeneration Indiciator and advance reproduction mortality budgets. 21st Central Hardwood Forest Conference. May 15-17, 2018. Bloomington, IN.
- 64. *Wachuta, M., <u>Knapp, B.O.</u>, and Dey, D.C. 2018. Accuracy of FOFEM mortality predictions for eastern hardwood species after one prescribed burn. Missouri Natural Resources Conference. February 2, 2018. Osage Beach, MO.
- 65. *Lyczak, S.J., Kabrick, J.M., Dey, D.C., <u>Knapp, B.O.</u>, and Larsen, D.R. 2018. Survival and growth of 1-0 shortleaf pine seedlings relative to planted and natural oak in forest restoration. Missouri Natural Resources Conference. February 2, 2018. Osage Beach, MO.

66. <u>Knapp, B.O.</u>, Stambaugh, M.C., Dey, D.C., and Kabrick, J.M. 2018. Practical considerations for long-term maintenance of oak woodlands. Missouri Natural Resources Conference. February 2, 2018. Osage Beach, MO.

2017

- 67. *Curtin, P., <u>Knapp, B.O.</u>, and Jack, S.B. 2017. Midstory growth and canopy recruitment in naturally regenerated longleaf pine woodlands. Society of American Foresters National Convention. November 15-19, 2017. Albuquerque, NM.
- 68. *Anderson, S., <u>Knapp, B.O.</u>, Stambaugh, M.C., and Kabrick, J.M. 2017. Shortleaf pine response to thinning at the onset of a severe drought. Society of American Foresters National Convention. November 15-19, 2017. Albuquerque, NM.
- 69. <u>Knapp, B.O.</u>, Wang, G.G., and Kabrick, J.M. 2017. Underplanting shade intolerant southern pine species: an oxymoron or ecological approach to regeneration? Society of American Foresters National Convention. November 15-19, 2017. Albuquerque, NM.
- 70. Dey, D.C., Battaglia, M., Deal, R., <u>Knapp, B.O.</u>, O'Hara, K., Schuler, T., and Schweitzer, C.J. 2017. Barriers to natural regeneration. Society of American Foresters National Convention. November 15-19, 2017. Albuquerque, NM.
- 71. Jin, W., He, H.S., <u>Knapp, B.O.</u>, Aguilar, F.X., Shifley, S.R., and Kabrick, J.M. 2017. Ecological-economic trade-offs of long term pine-oak woodland restoration in the Missouri Ozarks. Natural Areas Conference. October 10-12, 2017. Fort Collins, CO.
- 72. *Vickers, L.A., Larsen, D.R., Kabrick, J.M., Dey, D.C., and <u>Knapp, B.O.</u> 2017. Modeling the impact of overstory density on the regeneration dynamics of Missouri Ozark forests. 2017 Forest Vegetation Simulator (FVS) e-Conference. February 28-March 2, 2017.
- 73. *Ghilardi, C.R., Knapp, B.O., He, H.S., Larsen, D.R., and Kabrick, J.M. 2017. Evaluation of the Fire and Fuels Extension (FFE) of the Forest Vegetation Simulator (FVS) within the Missouri Ozarks. 2017 Forest Vegetation Simulator (FVS) e-Conference. February 28-March 2, 2017.

- 74. Walker, J.L., <u>Knapp, B.O.</u>, Wang, G.G., and Hu, H. 2016. Planting longleaf pine under a loblolly canopy: research results and management guidelines. 11th Biennial Longleaf Alliance Regional Conference, The Longleaf Alliance. November 1-4, 2016. Savannah, GA.
- 75. *Vickers, L.A., Larsen, D.R., Dey, D.C., Kabrick, J.M., and <u>Knapp, B.O.</u> 2016. Modeling the impact of overstory density on the regeneration dynamics of Missouri Ozark forests. 2016 Northeastern Mensurationist Organization Conference. November 13-15, 2016. Concord, MA.
- 76. *Anderson, S.E., <u>Knapp, B.O.</u>, and Kabrick, J.M. 2016. Short- and long-term effects of thinning on shortleaf pine growth and carbon dynamics. Society of American Foresters National Convention. November 2-5, 2016. Madison, WI.
- 77. *Ghilardi, C.R., <u>Knapp, B.O.</u>, He, H.S., Larsen, D.R., and Kabrick, J.M. 2016. Evaluation of the Fire and Fuels Extension of the Forest Vegetation Simulator within the Missouri Ozarks. Society of American Foresters National Convention. November 2-5, 2016. Madison, WI.
- 78. *Rives, R.G., <u>Knapp, B.O.</u>, and Olson, M.G. 2016. Oak regeneration in bottomland hardwood forests of northern Missouri: quantifying the competitive environment 15 years after regeneration harvests. Society of American Foresters National Convention. November 2-5, 2016. Madison, WI.
- 79. <u>Knapp, B.O.</u>, Kabrick, J.M., and Dey, D.C. 2016. Putting the mixed in mixedwoods: silvicultural approaches to shortleaf pine regeneration in pine-oak forests of the Missouri Ozarks. Society of American Foresters National Convention. November 2-5, 2016. Madison, WI.

80. *‡Good, G., <u>Knapp, B.O.</u>, *Vickers, L.A., Larsen, D.R., and Kabrick, J.M. 2016. Evaluation of species height and density after clearcutting and group selection in the Missouri Ozarks. 20th Central Hardwood Forest Conference. March 28-April 1, 2016. Columbia, MO.

- 81. <u>Knapp, B.O.</u>, and Olson, M.G. 2016. Stump sprouting dynamics during stand initiation following clearcutting a Midwestern bottomland, mixed-species hardwood forest. 20th Central Hardwood Forest Conference. March 28-April 1, 2016. Columbia, MO.
- 82. <u>Knapp, B.O.</u>, Hullinger, M.A., and Kabrick, J.M. 2016. Effects of fire frequency on long-term stand dynamics of an oak-hickory forest in southeastern Missouri. 20th Central Hardwood Forest Conference. March 28-April 1, 2016. Columbia, MO.
- 83. <u>Knapp, B.O.</u>, Olson, M.G., and Kabrick, J.M. 2016. Dynamics of Missouri Ozark forests under landscape management: implications for climate change. 20th Central Hardwood Forest Conference. March 28-April 1, 2016. Columbia, MO.

2015

- 84. Kabrick, J.M., Clark, K.L., Dey, D.C., Kenefic, L.S., Kern, C.C., <u>Knapp, B.O.</u>, MacLean, D.A., Raymond, P., D'Amato, A.W., and Waskiewicz, J. 2015. Managing mixedwoods for future forests in eastern North America: current state of knowledge and research needs. Society of American Foresters National Convention. November 3-7, 2015. Baton Rouge, LA.
- 85. Knapp, B.O., Wang, G.G., Walker, J.L., and Addington, R.N. 2015. Fate of residual canopy trees following harvesting to underplant longleaf pine seedlings in loblolly pine stands in Georgia. 18th Biennial Southern Silvicultural Research Conference. March 2-5, 2015. Knoxville, TN.
- 86. *Maginel, C., <u>Knapp, B.O.</u>, Muzika, R.M., Kabrick, J.M., Olson, E.K. 2015. Landscape-scale prescribed fire: ground flora response and ecological implications. 6th International Fire Ecology and Management Congress. November 16-20, 2015. San Antonia, TX.
- 87. *Vickers, L.A., Larsen, D.R., Kabrick, J.M., Dey, D.C., and <u>Knapp, B.O.</u> 2015. A strategy for simulating regeneration establishment stand development hypotheses and empirical models. 18th Biennial Southern Silvicultural Research Conference. March 2-5, 2015. Knoxville, TN.
- 88. Wang, G.G., Pile, L.S., <u>Knapp, B.O.</u>, and Hu, H. 2015. Longleaf pine adaptation to fire: is early height growth pattern critical to fire survival? 18th Biennial Southern Silvicultural Research Conference. March 2-5, 2015. Knoxville, TN.
- 89. <u>Knapp, B.O.</u>, *Hullinger, M.A., and Kabrick, J.M. 2015. Effects of fire frequency on long-term stand dynamics of an oak-hickory forest in southeastern Missouri. Missouri Natural Resources Conference. February 4-6, 2015. Osage Beach, MO.

- 90. Kabrick, J.M., Dey, D.C., <u>Knapp, B.O.</u>, Leahy, M., Olson, M.G., Stambaugh, M.C., and Stevenson, A. 2014. Silvicultural considerations for managing fire-dependent oak woodland ecosystems. 19th Central Hardwoods Forest Conference, March 10-12, 2014. Carbondale, IL.
- 91. <u>Knapp, B.O.</u> and Kabrick, J. 2014. Effects of long-term prescribed burning on structure, composition, and timber quality of oak-hickory forests in the Missouri Ozarks. 19th Central Hardwoods Forest Conference, March 10-12, 2014. Carbondale, IL.
- 92. <u>Knapp, B.O.</u>, Wang, G.G., Pile, L.S., and Walker, J.L. 2014. Fire effects on a fire-adapted species: effects of simulated prescribed burning on grass-stage longleaf pine seedlings. Society of American Foresters National Convention. October 5-11, 2014. Salt Lake City, UT.
- 93. Olson, M.G., Stevenson, A., Jensen, R., Kabrick, J., and <u>Knapp, B.O.</u> 2014. Is there evidence of mesophication of oak forests in the Missouri Ozarks? 19th Central Hardwoods Forest Conference, March 10-12, 2014. Carbondale, IL.

94. Vickers, L.A., Larsen, D.R., Kabrick, J.M., Dey, D.C., and <u>Knapp, B.O.</u> 2014. A potential method for assessing tree performance. 19th Central Hardwoods Forest Conference, March 10-12, 2014. Carbondale, IL.

2013

- 95. Knapp, B.O., Olson, M.G., Larsen, D.R., Kabrick, J., and Jenson, R. 2013. MOFEP: A success story for long-term, landscape-scale, collaborative silvicultural research. Society of American Foresters National Convention. October 23-27, 2013. Charleston, SC.
- 96. Knapp, B.O., Wang, G.G., Walker, J.L., and Hu, H. 2013. From loblolly to longleaf: five-year results of a longleaf pine restoration study at two ecologically distinct sites. 17th Biennial Southern Silvicultural Research Conference. March 5-7, 2013. Shreveport, LA.
- 97. Wang, G.G., <u>Knapp, B.O.</u>, Hu, H., and Walker, J.L. 2013. Restoring longleaf pine ecosystems in loblolly pine plantations. Society of American Foresters National Convention. October 23-27, 2013. Charleston, SC.

2011

- 98. <u>Knapp, B.O.</u>, Walker, J.L., and Wang, G.G. 2011. Effects of longleaf pine restoration management on ground layer vegetation in existing lobolly pine forests of the southeastern United States. 96th Ecological Society of America Annual Meeting. August 7-12, 2011. Austin, TX.
- 99. <u>Knapp, B.O.</u>, Wang, G.G, Hu, H., Walker, J.L., and Tennant, C. 2011. Developing silvicultural protocols for longleaf pine (*Pinus palustris* Mill.) ecosystem restoration in loblolly pine (*Pinus taeda* L.) forests at Fort Benning, GA. 16th Biennial Southern Silvicultural Research Conference. February 15-17, 2011. Charleston, SC.

2010

- 100. <u>Knapp, B.O.</u>, Hu, H., Walker, J.L., and Wang, G.G. 2010. Restoration of native grass species following harvesting treatments at Camp Lejeune, NC and Fort Benning, GA. 71st Annual Meeting of the Association of Southeastern Biologists. April 8-10, 2010. Asheville, NC.
- 101. <u>Knapp, B.O.</u>, Wang, G.G., and Walker, J.L. 2010. Resource availability and planted longleaf pine (*Pinus palustris*) seedling response across canopy gaps in a loblolly pine (*Pinus taeda*) forest. 95th Ecological Society of America Annual Meeting. August 1-6, 2010. Pittsburgh, PA.
- 102. Walker, J.L. and Knapp, B.O. 2010. Wild leek (*Allium tricoccum*) populations in the Southern Appalachians: 1999-2009. 95th Ecological Society of America Annual Meeting. August 1-6, 2010. Pittsburgh, PA.

2009

- 103. <u>Knapp, B.O.</u>, Walker, J.L., Hu, H., and Wang, G.G. 2009. Longleaf pine restoration with non-traditional silviculture: early effects of harvesting treatments on ground layer vegetation at two military installations. Annual Symposium and Membership Meeting of the Southeastern Chapter of the Society for Ecological Restoration. March 24-26, 2009. Auburn, AL. 2008
- 104. Hu, H., Wang, G.G., Walker, J.L., and <u>Knapp, B.O.</u> 2008. Effects of canopy treatments on first year growth of planted longleaf pine seedlings: preliminary results. 15th Biennial Southern Silvicultural Research Conference. November 17-20, 2008. Hot Springs AR.

<u>2007</u>

105. <u>Knapp, B.O.</u>, Walker, J.L., Cohen, S. and Silletti, A.M. 2007. Early effects of site preparation on the native ground layer vegetation of a hydric soil in North Carolina, USA. 2007 Ecological Society of America/Society for Ecological Restoration Joint Meeting. August 4-11, 2007. San Jose, CA.

106. <u>Knapp, B.O.</u>, Wang, G.G., and Walker, J.L. 2007. Artificially regenerating longleaf pine on wet sites: preliminary analysis of effects of site preparation treatments on early survival and growth. 14th Biennial Southern Silvicultural Research Conference. February 26-March 1. Athens, GA.

2006

107. <u>Knapp, B.O.</u>, Wang, G.G., and Walker, J.L. 2006. Effects of site preparation treatments on microsite conditions in relation to growth and survival of planted longleaf pine seedlings in North Carolina. Ecological Society of America 91st Annual Meeting. August 6-11. Memphis, TN.

POSTER PRESENTATIONS

Professional Conferences - *denotes student advisee; ‡denotes student competition award I have been an author on 93 poster presentations, of which student advisees have delivered 52 and I have delivered 18.

2025

- 1. *Vitale, J., <u>Knapp, B.O.</u>, Fraser, J., Pile Knapp, L., and Stambaugh, M.C. 2025. Defining old-growth characteristics of upland, xeric pine-oak forests in the Interior Highlands. 23rd Biennial Southern Silvicultural Research Conference. March 18-20, 2025. Greenville, SC.
- 2. *Klug, K.M., <u>Knapp, B.O.</u>, and Hemmelgarn, H. 2025. Untapped potential: American sycamore and black walnut sap production characteristics compared to sugar maple. Missouri Natural Resources Conference. February 17-19, 2025. Osage Beach, MO.
- 3. *Vitale, J., <u>Knapp, B.O.</u>, Fraser, J., Pile Knapp, L., and Stambaugh, M.C. 2025. Defining old-growth characteristics of upland, xeric pine-oak forests in the Interior Highlands. Missouri Natural Resources Conference. February 17-19, 2025. Osage Beach, MO.

- 4. *‡Gross, R., Huffman, A., Stambaugh, M.C., Knapp, B.O., and Graham, B. 2024. Age distributions and establishment traits of white oak (*Quercus alba*) advance reproduction under uneven-aged management in the Ozark Highlands of Missouri, USA. The International Oak Symposium: Science-Based Management for Dynamic Oak Forests. October 7-10, 2024. Knoxville, TN. (outstanding student poster award recipient)
- 5. *‡Goldberg, I., Knapp, B.O., Puhlick, J.J., and Stambaugh, M.O. 2024. Patching up the gap: sapling dynamics of longleaf pine patches in a southwest Georgia forest. Society of American Foresters National Convention. September 19, 2024. Loveland, CO. (outstanding student poster award recipient)
- 6. *Klug, K.M., Knapp, B.O., and Hemmelgarn, H. 2024. Untapped potential: alternative tree species for syrup and influencing factors of sap production in Missouri. Society of American Foresters National Convention. September 19, 2024. Loveland, CO.
- 7. *Kronenberg, R., Bardhan, S., <u>Knapp, B.O.</u> 2024. Impact of thinning and burning on soil and plant communities in a Missouri forest farm. Society of American Foresters National Convention. September 19, 2024. Loveland, CO.
- 8. *Scott, S., Pile Knapp, L.S., and <u>Knapp, B.O.</u> 2024. Pollinator habitat in log landings (PHiLL) project: effects of ripping, biochar, and seeding on vegetation. Society of American Foresters National Convention. September 19, 2024. Loveland, CO.
- 9. Silanskis, M., Fraser, J., Pile Knapp, L.S., and <u>Knapp, B.O.</u> 2024. Documenting 60 years of structural and compositional change in an oak-hickory forest in southern Illinois. Society of American Foresters National Convention. September 19, 2024. Loveland, CO.

10. *Silanskis, M., Fraser, J., Pile Knapp, L.S., and <u>Knapp, B.O.</u> 2024. Documenting 60 years of structural and compositional change in an oak-hickory forest in southern Illinois. Missouri Natural Resources Conference. February 7, 2024. Osage Beach, MO.

2023

- 11. *‡Scott, S., <u>Knapp, B.O.</u>, Pile Knapp, L.S. 2023. Pollinator habitat in log landings (PHiLL) Project. Biennial Southern Silvicultural Research Conference, March 21-23, 2023. Nacogdoches, TX.
- 12. *Goldberg, I.M., <u>Knapp, B.O.</u>, Stambaugh, M.C., Huffman, A., Vaughan, I. 2023. Aging the grass stage from a known aged outplanting of longleaf pine using modern dendrochronological techniques. Biennial Southern Silvicultural Research Conference, March 21-23, 2023. Nacogdoches, TX.
- 13. *Scott, S., Chapman, A., Pile Knapp, L., <u>Knapp, B.O.</u>, Kabrick, J.M., Dey, D. 2023. Pollinator habitat in log landings (PHiLL) Project. Missouri Natural Resources Conference. February 7-9, 2023. Osage Beach, MO.
- 14. *Chapman, A., Pile Knapp, L., <u>Knapp, B.O.</u>, Newbold, C., Halsey, S. 2023. Are we succeeding in controlling invasive sericea lespedeza (*Lespedeza cuneata*) populations at Prairie Fork Conservation Area? Missouri Natural Resources Conference. February 7-9, 2023. Osage Beach, MO.

2022

- 15. *Huffman, A.L., <u>Knapp, B.O.</u>, Dey, D.C. 2022. Light availabity and deer herbivory effects on planted white oak (*Quercus alba*) seedlings. Central Hardwood Forest Conference. April 6-8, 2022. Morgantown, WV.
- 16. *Clubb, J., *Winfrey, B., Pile Knapp, L.S., <u>Knapp, B.O.</u> 2022. Impacts of seeding and soil treatments on log landing pollinator habitat. Missouri Natural Resources Conference. February 2-4, 2022. Osage Beach, MO.
- 17. *Fillingim, H., <u>Knapp, B.O.</u> 2022. Effects of fire season and heat exposure on shortleaf pine seed germination. Missouri Natural Resources Conference. February 2-4, 2022. Osage Beach, MO.
- 18. *Huffman, A.L., <u>Knapp, B.O.</u>, Dey, D.C. 2022. Light availabity and deer herbivory effects on planted white oak (*Quercus alba*) seedlings. Missouri Natural Resources Conference. February 2-4, 2022. Osage Beach, MO.

<u>2021</u>

- 19. *Jensen, G.L., <u>Knapp, B.O.</u>, Cannon, J.G. 2021. Turning up the heat: do adaptive silvicuture treatments affect applied high intensity fire behavior? 9th International Fire Ecology and Management Congress; Association for Fire Ecology. November 30 December 3, 2021.
- 20. <u>Knapp, B.O.</u>, Anderson, D., *Gillespie, K., *Kerley, D., *Maile, M., 2021. Missouri maple syrup: production methods and lesson learned from the School of Natural Resources sugar shack. Missouri Natural Resources Conference. February 2-4, 2021.
- 21. *Harpold, T., <u>Knapp, B.O.</u> 2021. Oak regeneration in the Missouri Ozarks: a preliminary analysis of how site variables and stocking affect temporal patterns of advanced reproduction abundance. Missouri Natural Resources Conference. February 2-4, 2021.
- 22. Pile Knapp, L.S., <u>Knapp, B.O.</u>, Newbold, C. 2021. Are we succeeding in controlling invasive sericea lespedeza (*Lespedeza cuneata*) populations at Prairie Fork Conservation Area? Missouri Natural Resources Conference. February 2-4, 2021.

2020

23. <u>Knapp, B.O.</u>, *Crouch, C.D., Wang, G.G., Walker, J.L. 2020. Site preparation for longleaf pine restoration on hydric sites: effects on stand development and individual tree growth through 15 years. SERDP and ESTCP 2020 Symposium. November 30-December 4, 2020.

- 24. *Hayford, I., <u>Knapp, B.O.</u>, and Buchanan, M. 2020. Effects of overstory harvest and midstory release on oak regeneration in bottomland forests of northern Missouri. Missouri Natural Resources Conference. February 4-6, 2020. Osage Beach, MO.
- 25. *Maddox, D., <u>Knapp, B.O.</u>, Pile, L.S., Kabrick, J.M., Dey, D.C., and Newbold, C. 2020. Reintroduction of macroflora for savanna reconstruction and woodland restoration: a tale of trees and seeds. Missouri Natural Resources Conference. February 4-6, 2020. Osage Beach, MO.
- 26. Steppe, C., Pile, L.S., <u>Knapp, B.O.</u>, and Newbold, C. 2020. Are we succeeding in controlling invasive sericea lespedeza (*Lespedeza cuneata*) populations at Prairie Fork Conservation Area? Missouri Natural Resources Conference. February 4-6, 2020. Osage Beach, MO.

2019

- 27. Knapp, B.O., *Crouch, C.D., Wang, G.G., and Walker, J.L. 2019. Site preparation for longleaf pine restoration on hydric sites: effects on stand development and individual tree growth through 15 years. SERDP and ESTCP Symposium: Enhancing DoD's Mission Effectiveness. December 3-5, 2019. Washington, DC.
- 28. Higgins, S.J., Kabrick, J.M., <u>Knapp, B.O.</u>, Abney, M. 2019. Soil health parameters on forested landscapes as a function of past land use. Soil Science Society of American Annual Meeting. November 10-12, 2019. San Antonio, TX.
- 29. *Hayford, I., <u>Knapp, B.O.</u>, Buchanan, M. 2019. Effects of overstory harvest and midstory release on oak regeneration in bottomland forests in northern Missouri. Society of American Foresters National Convention. October 30-November 3, 2019. Louisville, KY.
- 30. *Lamb, S.T., <u>Knapp, B.O.</u>, Pile, L.S., Fraser, J. 2019. Invasive plant survey of Baskett Research Area and Mark Twain National Forest in mid-Missouri. Society of American Foresters National Convention. October 30-November 3, 2019. Louisville, KY.
- 31. *Maddox, D., <u>Knapp, B.O.</u>, Pile, L.S., Kabrick, J.M., Dey, D.C., and Newbold, C. 2019. Reintroduction of macroflora for a savanna reconstruction and woodland restoration: a tale of trees and seeds. Society of American Foresters National Convention. October 30-November 3, 2019. Louisville, KY.
- 32. <u>Knapp, B.O.</u>, *Kerley, D., and Wickenhauser, B. 2019. Missouri maple syrup: production methods and lessons learned from the School of Natural Resources sugar shack. Missouri Natural Resources Conference. February 5-7, 2019. Osage Beach, MO.

- 33. Knapp, B.O., *Crouch, C.D., Wang, G.G., and Walker, J.L. 2018. Site preparation for longleaf pine restoration on hydric sites: effects on stand development and individual tree growth through 15 years. SERDP and ESTCP Symposium: Enhancing DoD's Mission Effectiveness. November 27-29, 2018. Washington, DC.
- 34. Blood, B.L., Wang, G.G., <u>Knapp, B.O.</u>, Larsen, D.R., Oswalt, C.M., and Pile, L.S. 2018. Testing bark thickness estimate used in fire effect modeling systems. Society of American Foresters National Convention. October 3-7, 2018. Portland, OR.
- 35. *Nugraha, M.N., <u>Knapp, B.O.</u>, Larsen, D.R., Wicksono, A., Nugraha, A.K., and Duda, L. 2018. Height-age model for *Acacia mangium* plantations in East Kalimantan, Indonesia. Society of American Foresters National Convention. October 3-7, 2018. Portland, OR.

36. Blood, B.L., Wang, G.G., <u>Knapp, B.O.</u>, Larsen, D.R., Oswalt, C.M., and Pile, L.S. 2018. Testing bark thickness estimate used in fire effect modeling systems. 103rd Annual Meeting of the Ecological Society of America. August 5-10, 2018. New Orleans, LA.

- 37. *Beckerman, T., Weegman, M., and Knapp, B.O. 2018. Forest wildlife response to legacy effects of land management in mid-Missouri. University of Missouri, School of Natural Resources Research Day. May 3, 2018.
- 38. *Crouch, C.D., <u>Knapp, B.O.</u>, Wang, G.G., and Walker, J.L. 2018. Site preparation for longleaf pine restoration on hydric sites: effects on short-term seedling response and stand development through 15 years. University of Missouri, School of Natural Resources Research Day. May 3, 2018
- 39. *Farver, M., <u>Knapp, B.O.</u>, and Weegman, M. 2018. Restoration ecology: impacts of agricultural use and abandonment on forest structure and composition in central Missouri. University of Missouri, School of Natural Resources Research Day. May 3, 2018.
- 40. *Kerley, D.F., Knapp, B.O., and Wickenhauser, B. 2018. Operational techniques and data collection for sugar maple (*Acer saccharum*) syrup production. University of Missouri, School of Natural Resources Research Day. May 3, 2018.
- 41. *Nugraha, M.N., Hastanto, H., Wicaksono, A., <u>Knapp, B.O.</u>, Muzika, R.M., Nugraha, A.K., and Wright, J.A. 2018. Evaluation of important pest and disease incidence over time in a new tropical *Acacia mangium* plantation in east Borneo, Indonesia. University of Missouri, School of Natural Resources Research Day. May 3, 2018.
- 42. *Wachuta, M., <u>Knapp, B.O.</u>, Dey, D.C., Wang, G.G., Arthur, M.A., Hutchinson, T., Schuler, T.M., Schweitzer, C., and Wiedenbeck, J. 2018. Accuracy of FOFEM mortality predictions for eastern hardwood species after one prescribed burn. University of Missouri, School of Natural Resources Research Day. May 3, 2018.
- 43. *Nugraha, M.N., Hastanto, H., Wicaksono, A., <u>Knapp, B.O.</u>, Muzika, R.M., Nugraha, A.K., and Wright, J.A. 2018. Evaluation of important pest and disease incidence over time in a new tropical *Acacia mangium* plantation in east Borneo, Indonesia. 2018 International Society of Tropical Foresters Conference. February 2, 2018. Yale University.

- 44. Refsland, T., <u>Knapp, B.O.</u>, Fraterrigo, J. 2017. Effects of experimentally manipulated fire regimes on the response of forests to drought. American Geophysical Union Fall Meeting. December 11-15, 2017. New Orleans, LA.
- 45. *Crouch, C.D., <u>Knapp, B.O.</u>, Wang, G.G., and Walker, J.L. 2017. Site preparation for longleaf pine restoration on hydric sites: effects on short-term seedling response and stand development through 15 years. SERDP and ESTCP Symposium: Enhancing DoD's Mission Effectiveness. November 28-30, 2017. Washington, DC.
- 46. *Crouch, C.D., <u>Knapp, B.O.</u>, Wang, G.G., and Walker, J.L. 2017. Site preparation for longleaf pine restoration on hydric sites: effects on short-term seedling response and stand development through 15 years. Society of American Foresters National Convention. November 15-19, 2017. Albuquerque, NM.
- 47. *Wachuta, M., <u>Knapp, B.O.</u>, Dey, D.C., Wang, G.G., Arthur, M.A., Hutchinson, T., Schuler, T.M., Schweitzer, C., and Wiedenbeck, J. 2017. Accuracy of FOFEM mortality predictions for eastern hardwood species after one prescribed burn. Society of American Foresters National Convention. November 15-19, 2017. Albuquerque, NM.
- 48. Kabrick, J.M., *Lyczak, S.J., <u>Knapp, B.O.</u>, Dey, D.C., and Larsen, D.R. 2017. Survival and growth of 1-0 *Pinus echinata* seedlings relative to planted and natural hardwoods for restoration. 3rd

- Restoring Forests: Regeneration and Ecosystem Function for the Future, IUFRO Conference. September 12-14. Lund, Sweden.
- 49. *‡Curtin, P.J., <u>Knapp, B.O.</u>, Jack, S.B., and Nieminen, M.F. 2017. Survival and growth of longleaf pine seedlings over a 10-year period in southwestern GA. 19th Biennial Southern Silvicultural Research Conference. March 13-16. Blacksburg, VA.
- 50. *Vickers, L.A., Larsen, D.R., Kabrick, J.M., Dey, D.C., and <u>Knapp, B.O.</u> 2017. Modeling the impacts of overstory density on regeneration dynamics of Missouri Ozark forests. 19th Biennial Southern Silvicultural Research Conference. March 13-16. Blacksburg, VA.
- 51. *Curtin, P.J., <u>Knapp, B.O.</u>, and Jack, S.B. 2017. Canopy recruitment dynamics in naturally regenerated longleaf pine (*Pinus palustris*) woodlands. Joseph W. Jones Ecological Research Center Annual Symposium. February 2, 2017.
- 52. *Dick, D.L., Kabrick, J.M., Goyne, K.W., and <u>Knapp, B.O.</u> 2017. Variation in soil carbon across an oak-pine composition gradient. Missouri Natural Resources Conference. February 1-3, 2017. Osage Beach, MO.
- 53. *Maginel, C.J., <u>Knapp, B.O.</u>, Muzika, R.M., Olson, E.K., and Stevenson, A.P. 2017. Prescribed fire promotes landscape-scale ground flora compositional shifts. Missouri Natural Resources Conference. February 1-3, 2017. Osage Beach, MO.

- 54. *Vickers, L.A., Larsen, D.R., Dey, D.C., Kabrick, J.M., and <u>Knapp, B.O.</u> 2016. Modeling the impacts of overstory density on the regeneration dynamics of Missouri Ozark Forests. Society of American Foresters National Convention. November 2-5, 2016. Madison, WI.
- 55. *Vickers, L.A., McWilliams, W.H., <u>Knapp, B.O.</u>, Dey, D.C., Kabrick, J.M., Larsen, D.R., Saunders, M.R., Shifley, S.R., and Westfall, J.A. 2016. Evaluating reproduction adequacy in the Central States using the NRS-FIA Regeneration Indicator. Society of American Foresters National Convention. November 2-5, 2016. Madison, WI.
- 56. *O'Brien, T.G., and <u>Knapp, B.O.</u> 2016. Show MO carbon storage: an assessment of standing forest carbon in mid-Missouri. Undergraduate Research and Creative Achievements Forum, University of Missouri. April 26, 2016. Columbia, MO.
- 57. *Anderson, S.E., <u>Knapp, B.O.</u>, and Kabrick, J.M. 2016. Effects of long-term density management on carbon storage in oak-hickory forests of the Missouri Ozarks. 20th Central Hardwood Forest Conference. March 28-April 1, 2016. Columbia, MO.
- 58. *Ghilardi, C., <u>Knapp, B.O.</u>, He, H., Larsen, D.R., and Kabrick, J.M. 2016. Evaluation of the Fire and Fuels Extension of the Forest Vegetation Simulation within the Missouri Ozarks. 20th Central Hardwood Forest Conference. March 28-April 1, 2016. Columbia, MO.
- 59. <u>Knapp, B.O.</u>, Marschall, J.M., and Stambaugh, M.C. 2016. Effects of long-term prescribed burning on timber value in hardwood forests of the Missouri Ozarks. 20th Central Hardwood Forest Conference. March 28-April 1, 2016. Columbia, MO.
- 60. *Vickers, L.A., Larsen, D.R., Dey, D.C., Kabrick, J.M., and <u>Knapp, B.O.</u> 2016. Modeling the impact of overstory density on the regeneration dynamics of Missouri Ozark forests. 10th IUFRO International Workshop on Uneven-aged Silviculture. May 31-June 2, 2016. Little Rock, AR.
- 61. *Vickers, L.A., McWilliams, W., <u>Knapp, B.O.</u>, Dey, D.C., Kabrick, J.M., Larsen, D.R., Shifley, S., and Westfall, J. 2016. An evaluation of reproduction adequacy for forests in the Central Hardwood Region. 20th Central Hardwood Forest Conference. March 28-April 1, 2016. Columbia, MO.

62. *Anderson, S.E., <u>Knapp</u>, <u>B.O.</u>, and Kabrick, J.M. 2016. Effects of long-term density management on carbon storage in oak-hickory forests of the Missouri Ozarks. Missouri Natural Resources Conference. February 3-5, 2016. Osage Beach, MO.

- 63. *Ghilardi, C., <u>Knapp, B.O.</u>, Larsen, D.R., and He, H. 2016. Evaluation of the Fire and Fuels Extension of the Forest Vegetation Simulation within the Missouri Ozarks. Missouri Natural Resources Conference. February 3-5, 2016. Osage Beach, MO.
- 64. *Dick, D.L., Kabrick, J.M., and <u>Knapp, B.O.</u> 2016. Organic horizon depth and mass is related to distance from shortleaf pines. Missouri Natural Resources Conference. February 3-5, 2016. Osage Beach, MO.

2015

- 65. *Maginel, C.J., <u>Knapp, B.O.</u>, Muzika, R.M., Olson, E.K., and Stevenson, A.P. 2015. Prescribed fire promotes landscape-scale ground flora compositional shifts. Natural Areas Conference. November 3-5, 2015. Little Rock, AR.
- 66. *Vickers, L.A., Larsen, D.R., <u>Knapp, B.O.</u>, Kabrick, J.M., and Dey, D.C. 2015. Reference charts, a quantitative methodology for assessing tree performance. 18th Biennial Southern Silvicultural Research Conference. March 2-5, 2015. Knoxville, TN.
- 67. *Vickers, L.A., Larsen, D.R., <u>Knapp, B.O.</u>, Kabrick, J.M., and Dey, D.C. 2015. The impact of overstory density on sapling height growth in the Missouri Ozarks. 18th Biennial Southern Silvicultural Research Conference. March 2-5, 2015. Knoxville, TN.
- 68. *Good, G., <u>Knapp, B.O.</u>, Larsen, D.R., Kabrick, J.M., and Jenson, R. 2015. Composition and growth of forest regeneration following two silvicultural prescriptions in the Missouri Ozarks. Missouri Natural Resources Conference. February 4-6, 2015. Osage Beach, MO.
- 69. *Maginel, C.J., <u>Knapp, B.O.</u>, Thombs, L.A., Olson, E.K., and Muzika, R.M. 2015. Drip torches and *Desmodium*: landscape-scale prescribed fire effects on ground flora. Missouri Natural Resources Conference. February 4-6, 2015. Osage Beach, MO.
- 70. *Rives, R.G., <u>Knapp, B.O.</u>, and Olson, M.G. 2015. Bottomland hardwood management: determining the effectiveness of past silvicultural treatments implemented to increase oak species regeneration. Missouri Natural Resources Conference. February 4-6, 2015. Osage Beach, MO.

2014

- 71. Kabrick, J.M., <u>Knapp, B.O.</u>, Dey, D.C., and Larsen, D.R. 2014. Competitive dynamics of underplanted shortleaf pine for restoration in the Ozark Highlands. 2nd Restoring Forests Congress, October 13-15, 2014, West Lafayette, IN.
- 72. *Maginel, C.J., <u>Knapp, B.O.</u>, and Muzika, R.M. 2014. Effects of repeated landscape-scale prescribed burning on conservative Ozark woodland ground flora. 19th Central Hardwoods Forest Conference, March 10-12, 2014. Carbondale, IL.
- 73. *Hullinger, M.A. and <u>Knapp, B.O.</u> 2014. Investigating long-term effects of prescribed burning on stand structure in a Missouri Ozark oak/hickory forest. 2014 Missouri Natural Resources Conference. February 5-7, 2014. Osage Beach, MO.
- 74. *Maginel, C.J., <u>Knapp, B.O.</u>, and Muzika, R.M. 2014. Effects of repeated landscape-scale prescribed burning on conservative Ozark woodland ground flora. 2014 Missouri Natural Resources Conference. February 5-7, 2014. Osage Beach, MO.

2013

75. Pile, L.S., Wang, G.G., Walker, J.L., and <u>Knapp, B.O.</u> 2013. Disturbance history affects the invisibility of forest communities by Chinese tallow (*Triadica sebifera*). Society of American Foresters National Convention, October 23-27, 2013. Charleston, SC.

76. Knapp, B.O., Wang, G.G., Clark, S.L., Pile, L.S., and Schlarbaum, S.E. 2013. Photosynthetic response of field-planted American chestnut (*Castanea dentata*), Chinese chestnut (*Castanea mollissima*), and chestnut hybrid seedlings to different light levels.17th Biennial Southern Silvicultural Research Conference. March 5-7, 2013. Shreveport, LA.

- 77. Knapp, B.O., Kabrick, J.M., and Olson, M.G. 2013. Contemporary distribution, density, structure, and regeneration potential of shortleaf pine in pine-oak mixtures with respect to site factors in the Missouri Ozark Highlands. Missouri Natural Resources Conference, January 30-February 1. Osage Beach, MO.
- 78. Kabrick, J.M., Leahy, M., Grabner, K.W., Stambaugh, M.C., <u>Knapp, B.O.</u>, and Olson, M.G. 2013. Sustaining woodlands: allowing for tree regeneration and recruitment using area-based scheduling of prescribed burning. Missouri Natural Resources Conference, January 30-February 1. Osage Beach, MO.

2012

- 79. <u>Knapp, B.O.</u>, Hu, H., Tennant, C., Wang, G.G., and Walker, J.L. 2012. Effects of underplanting and silvicultural manipulation on longleaf pine ecosystem restoration. Society of American Foresters National Convention, October 24-28. Spokane, WA.
- 80. Walker, J., <u>Knapp, B.O.</u>, and Cohen, S. 2012. Longleaf pine establishment affects site restoration potential through changes in vegetation, fuels, and fire behavior. Ecological Society of America 97th Annual Meeting, August 5-10. Portland, OR.

<u>2011</u>

- 81. Knapp, B.O., Hu, H., Tennant, C., Ryu, S.R., Walker, J.L., and Wang, G.G. 2011. Managing declining pine stands for red-cockaded woodpecker habitat at Fort Benning, GA and Camp Lejeune, NC (RC-1474). The Partners in Environmental Technology Technical Symposium and Workshop. November 29-December 1, 2011. Washington, DC.
- 82. Hu, H., Wang, G.G., <u>Knapp, B.O.</u>, and Walker, J.L. 2011. Effects of silvicultural treatments on longleaf pine seedlings and ground layer vegetation at Camp Lejeune, NC. 16th Biennial Southern Silvicultural Research Conference. February 15-17, 2011. Charleston, SC.

2010

83. Knapp, B.O., Hu, H., Tennant, C., Ryu, S.R., Walker, J.L., and Wang, G.G. 2010. Evaluating effects of restoration management on longleaf pine ecosystem establishment at Fort Benning, GA and Camp Lejeune, NC. The Partners in Environmental Technology Technical Symposium and Workshop. November 30-December 2, 2010. Washington, DC.

2009

84. Knapp, B.O., Hu, H., Walker, J.L., and Wang, G.G. 2009. From loblolly to longleaf: developing silvicultural protocols for longleaf pine restoration in loblolly pine stands. The Partners in Environmental Technology Technical Symposium and Workshop. December 1-3, 2009. Washington, DC.

- 85. Knapp, B.O., Ryu, S.R., Hu, H., Walker, J.L., and Wang, G.G. 2008. From loblolly to longleaf: determining loblolly pine stand susceptibility to decline and silvicultural protocols for longleaf pine restoration. The Partners in Environmental Technology Technical Symposium and Workshop. December 2-4, 2008. Washington, DC.
- 86. <u>Knapp, B.O.</u> and Walker, J.L. 2008. Using existing growth models to predict RCW habitat development following site preparation: pitfalls of the process and potential growth response. 15th Biennial Southern Silvicultural Research Conference. November 17-20, 2008. Hot Springs, AR.

87. Ryu, S.R., Wang, G.G., Walker, J.L., and <u>Knapp, B.O.</u> 2008. A preliminary assessment on the health of loblolly pine stands at Fort Benning, GA. 15th Biennial Southern Silvicultural Research Conference. November 17-20, 2008. Hot Springs, AR.

2007

- 88. Knapp, B.O., Walker, J.L., Cohen, S. and Silletti, A.M. 2007. Plantation management effects on ground layer vegetation: short-term effects diminish but long-term differences are evident. The Partners in Environmental Technology Technical Symposium and Workshop. December 4-6, 2007. Washington, DC.
- 89. Ryu, S.R., Wang G.G., Walker, J.L., <u>Knapp, B.O.</u>, and Wangen, S. 2007. Predicting the occurrence of loblolly pine decline in potential red-cockaded woodpecker habitat at Fort Benning, Georgia. 14th Biennial Southern Silvicultural Research Conference. February 26-March 1. Athens, GA.

2005

- 90. Cohen, S., Walker, J.L., and <u>Knapp, B.O.</u> 2005. Restoring longleaf pine on hydric soils: early effects on soil chemistry and seedling survivorship. Soil Science Society of America International Meeting. November 6-10, 2005. Salt Lake City, Utah.
- 91. <u>Knapp, B.O.</u>, Wang, G.G., and Walker, J.L. 2005. Early survival and growth of planted longleaf pine seedlings in relation to light, soil moisture and soil temperature. The 13th Biennial Southern Silvicultural Conference. February 28-March 4. Memphis, TN.
- 92. <u>Knapp, B.O.</u>, Wang, G.G., Van Lear, D.H., and Walker, J.L. 2005. Can root biomass of advance white oak regeneration be reliably predicted from diameter and height? The 13th Biennial Southern Silvicultural Conference. February 28-March 4. Memphis, TN.

<u>2004</u>

93. <u>Knapp, B.O.</u>, Wang, G.G., and Walker, J.L. 2004. Effects of site preparation on the first year growth of planted longleaf pine seedlings. Society of American Foresters and Canadian Institute of Forestry Joint Annual General Meeting and Convention. October 2-4. Edmonton, Alberta, Canada.

WEBINARS

- <u>Knapp, B.O.</u> 2025. Practical considerations for long-term management of oak woodlands. Applied Ecological Silviculture Webinar Series. April 16, 2025.
- <u>Knapp, B.O.</u> 2016. Repeated burning for oak woodland restoration: long-term effects on stand development in the Missouri Ozarks. Oak Woodlands and Forests Fire Consortium. 2016 Webinar Series, December 6, 2016.

WORKSHOPS

5, 2022
9, 2021
25, 2021
3, 2020
6, 2018

		October 2023
	the 2018 Agroforesty Academy, Center for Agroforestry, University of	
	Missouri	
•	Organized and led field tour for 'Mixedwoods Initiative'	April 11-12, 2018
•	Presented research and tour for Missouri chapter of Society of American	October 30, 2017
	Foresters fall meeting at Deer Ridge Conservation Area	,
•	Presented session on timber stand improvement and creating silvopasture at	July 27, 2017
	Silvopasture Showcase at Green Pastures Farm, Center for Agroforestry,	,
	University of Missouri	
•	Presented at Bottomland Hardwood Management Workshop, hosted by	March 21, 2017
	Missouri Department of Conservation, Cape Girardeau, MO	•
•	Presented at USDA Forest Service Mark Twain National Forest, Region 9	March 7, 2017
	Silviculture Workshop, Salem MO	•
•	Contributed to organization of mixedwoods field tour prior to Society of	November 1, 2016
	American Foresters national meeting, with approximately 10 participants	
•	Presented session on timber stand improvement and creating silvopasture at	July 28, 2016
	the 2016 Agroforesty Academy, Center for Agroforestry, University of	•
	Missouri	
•	Presented at the Ecological Society of American SEEDS program at the	May 21, 2016
	Sinkin Experimental Forest	
•	Presented at the woodlands field tour, associated with the 20 th Central	April 1, 2016
	Hardwood Forest Conference	
•	Presented at MOFEP field tour, associated with the 20 th Central Hardwood	March 28, 2016
	Forest Conference	
•	Participated in "Shortleaf pine training" workshop, organized and led by Dr.	August 18-20, 2015
	Wayne Clatterbuck of University of Tennessee and designed for Tennessee	
	Division of Forestry. I taught a section on artificial regeneration of shortleaf	
	pine.	
•	Frequent Fire Conifer Ecosystems – Hosted by the USDA Forest Service	January 7-9, 2015
	and the Joseph W. Jones Ecological Research Center at Newton, GA.	
•	I participated in the "Forest Stand Dynamics" workshop, organized and led	April 22, 2014
	by Dr. David Larsen of University of Missouri and hosted by the Missouri	
	Department of Conservation for forestry professionals within the agency. I	
	taught a section on using fire as a silvicultural tool.	7 05 0010
•	Participated in leading a workshop for land managers at Marine Corps Base	June 25, 2012
	Camp Lejeune, NC to communicate research results for converting loblolly	
	pine forests to longleaf pine and to discuss operational challenges to	
	restoration efforts. The workshop included a presentation and office	
	discussion along with field tours.	

Curriculum Vitae October 2025

POPULAR PRESS

Knapp, Benjamin O.

- CAFNR project taps into maple syrup production in warming climate. Columbia Missourian. February 5, 2024
- Prescribed forest fire frequency should be based on land management goals. Science Daily. April 18, 2017
- A sweet success CAFNR news. Logan Jackson. March 24, 2017.

• Warm weather crimps flow of sap – and syrup – at MU maple grove. The Missourian. February 28, 2017

- Midwestern Foresters' Conclave features flying wood, flannel, and plenty of beards. The Missourian. April 16, 2016.
- Forestry club to host conclave CAFNR news. Logan Jackson. March 28, 2016.

GRANT PROPOSALS

Awarded Funding

I have been awarded a total of \$10,570,593 in funding, including \$8,511,512 in shared credit.

\$982,929	Pennsylvania Game Commission Establishing oak woodlands in Pennsylvania (Contribution: 100%)	2025-2031
\$57,000	USDA Forest Service, Northern Research Station Characterizing the structure, composition, and demographics of old-growth pine-oak (Co-PIs: Knapp, B.O., Fraser, J., Pile Knapp, L.S. – Contribution: 100%)	2024-2027
\$127,400	USDA Forest Service, Northern Research Station Managing mature and old growth (MOG) in the Eastern United States (Co-PIs: Knapp, B.O., Fraser, J., Pile Knapp, L.S. – Contribution: 100%)	2024-2026
\$99,430	Missouri Forest Products Association Forest management effects on carbon dynamics in the Central Hardwood region (Contribution -100%)	2024 on
\$1,000	Missouri Native Plants Society Pollinator habitat in log landings: biochar and drought greenhouse experimen (Co-PIs: Scott, S., Pile Knapp, L.S., Knapp, B.O. – Contribution: 100%)	2023-2025
\$1,928,171	The Nature Conservancy (sub-award) USDA Partnerships for Climate-Smart Commodities (\$60,000,000) Expanding agroforestry production and markets for producer profitability and stabilization (Co-PIs: Knapp, B.O., Hemmelgarn, H.L., Gold, M.A., Conway, Anderson, A. Contribution: 25%)	
\$314,511	Missouri Department of Conservation Sustainability of uneven-aged oak forest management in the Missouri Ozarks how are current practices affecting white oak regeneration and recruitment? (Co-PIs: Stambaugh, M.C., Knapp, B.O. – Contribution: 50%)	2022-2025
\$22,479	USDA Forest Service Pollinator Habitats in Log Landings (PHiLL) project	2022-2025

(Contribution – 100%)

\$234,644	USDA National Institute of Food and Agriculture Agroforestry for climate risk management: effectiveness of windbreaks in reducing crop loss in Midwest, USA (Co-PIs: Knapp, B.O., Thapa, B., Guinan, P. – Contribution: 80%)	2022-2026
\$29,385	U.S. Geological Survey National Atmospheric Deposition Program (Contribution: 100%)	2021-2025
\$3,833,043	USDA Agricultural Research Service Improving resilience and diversification of small farms through agroforestry and specialty crops (Contribution: 100%)	2020-2025
\$27,983	Jones Center at Ichauway Silvicultural strategies for promoting longleaf pine recruitment in multi-aged stands (Contribution: 100%)	2022-2024
\$158,031	Missouri Department of Conservation MOFEP woody vegetation (Contribution: 100%)	2022-2023
\$164,113	TLL Temple Foundation Regenerating mixed pine-oak forests in east Texas ecosystems of Boggy Slou Conservation Area (Contribution: 100%)	2021-2024 gh
\$238,500	US Department of Agriculture, National Institute of Food and Agriculture, National Needs Graduate and Postgraduate Fellowship Grants Program National Need for Disciplinary Integration in Forest Resource Management (Co-PIs: Nilon, C.H., Knapp, B.O., Rotman, R.M., and Saunders, L.A. – Contribution: 32%)	2020-2025
\$103,187	USDA Forest Service Evaluating the extent and severity of black cherry regeneration failures in Eastern forests and exploring potential causes (Co-PIs: Knapp, B.O., Vickers, L.A. – Contribution: 50%)	2019-2021
\$28,752	University of Kentucky Upland oak sustainability (Co-PIs: Knapp, B.O., Vickers, L.A. – Contribution: 50%)	2020-2021

Knapp, Benjamin O.	Curriculum Vitae October 2025
\$24,402 Allegheny Hardwood Utilization Group Examining the extent, severity, and potential causes of increased birch regeneration (Co-PIs: Vickers, L.A., Knapp, B.O. – Contribution: 100%)	2020-2021
\$21,852 Joseph W Jones Ecological Research Center Effects of adaptive silviculture for climate change on fuel characteristics behavior, and fire effects in longleaf pine ecosystems of southwestern G (Contribution: 100%)	The state of the s
\$60,000 L-A-D Foundation Are current harvest levels sustainable? Describing forest regeneration th time across Pioneer Forest (Contribution: 100%)	2020-2022 nrough
\$133,028 USDA Forest Service, Northern Research Station Can we facilitate the rapid establishment of functional pollinator habitat landings? (Co-PIs: Kabrick, J.M., Pile, L.S., Knapp, B.O. – Contribution: 25%)	2020-2025 t in log
\$222,203 Missouri Department of Conservation Evaluating the effect of greentree reservoir water management on the he productivity, and regeneration of desirable bottomland hardwood forest species (Co-PIs: Knapp, B.O., Stambaugh, M.C. – Contribution: 50%)	
\$57,000 USDA Forest Service, Northern Research Station Evaluating factors affecting regeneration challenges of upland oak speci (Quercus spp.) in mid-Missouri (Contribution: 100%)	2019-2023 ies
\$128,440 Missouri Department of Conservation Effects of even-aged and uneven-aged forest management on ground flo soft mast production in Missouri's Ozark forests and woodlands (Co-PIs: Olson, E., Knapp, B.O., Muzika, R.M. – Contribution: 25%)	2017-2020 ora and
\$37,735 U.S. Geological Survey National Atmospheric Deposition Program (Contribution: 100%)	2016-2021
\$498,441 USDA, National Institute of Food and Agriculture Socio-economic and environmental implications of growth in woody bid for biopower (Co-PIs: Knapp, B.O., McGarvey, R. – Contribution: 60%)	2017-2021 omass use
\$81,599 USDA Forest Service, Forest Health Monitoring Program	2018-2020

	Do forest health issues in oak forests of the eastern US accelerate compositional shifts to non-oak species? (Co-PIs: Vickers, L.A., Knapp, B.O., Dey, D.C. – Contribution: 40%)	
\$6,998	USDA Forest Service, Northern Research Station Documenting the extent and spatial distribution of woody invasive Species on Baskett Wildlife Research Center and the Southwestern Project Area of the Cedar Creek Ranger District – Mark Twain National Forest (Co-PIs: Knapp, B.O., Pile Knapp, L.S. – Contribution: 50%)	2019-2020
\$4,880	SNR Mini-Grant Program Restoration ecology and agricultural legacy: developing research, teaching, a demonstration opportunities at Baskett Wildlife Research and Education Cen (PI: Knapp, B.O., Co-PIs: Li, C., Weegman, M., Wood, J. – Contribution: 75	ter
\$3,977	CAFNR International Programs Incentive Fund Developing international, experiential learning opportunities in Costa Rica: immersion in culture and natural resource practice (PI: Knapp, B.O., Co-PI: Muzika, R.M. – Contribution: 50%)	2017
\$135,794	USDA Forest Service, Northern Research Station Evaluating effects of method and timing of release on shortleaf pine regeneration in the Missouri Ozarks (PI: Knapp, B.O., Co-PI: Kabrick, J.M. – Contribution: 75%)	2017-2022
\$249,115	Strategic Environmental Research and Development Program, US Department of Defense Site preparation for longleaf pine restoration on hydric sites: stand development and ground layer response 15 years following planting (PI: Knapp, B.O.; Collaborators: Wang, G.G., Walker, J.L Contribution: 80	2017-2019
\$37,735	United States Geological Survey National Atmospheric Deposition Program (PI: Knapp, B.O.; Contribution: 100%)	2017-2021
\$82,282	Joint Fire Science Program, Sponsored by USDA and USDI Modeling fire-induced tree mortality for eastern hardwood species (PI: Knapp, B.O.; Co-PIs: Wang, G.G., Dey, D.C. – Contribution: 50%)	2016-2020
\$31,000	USDA Forest Service The survival and performance of improved shortleaf pine seedlings (PI: Kabrick, J.M., Co-PIs: Knapp, B.O., Walter, D. – Contribution: 30%)	2016-2021
\$25,688	Joseph W. Jones Ecological Research Center Recruitment dynamics in naturally regenerated longleaf pine woodlands	2015-2017

	(PI: Knapp, B.O.; Co-PIs: Jack, S.B., Guldin, J., Larsen, D.R. – Contribution: 80%)	
\$28,364	USDA Forest Service, Southern Research Station Recruitment dynamics in naturally regenerated longleaf pine woodlands (PI: Knapp, B.O.; Co-PIs: Jack, S.B., Guldin, J., Larsen, D.R. – Contribution: 80%)	2015-2018
\$150,000	USDA Forest Service, Northern Research Station, Forest Inventory and Analysis Program Tree regeneration adequacy metrics for the Central States (PI: Knapp, B.O.; Co-PIs: McWilliams, W., Dey, D.C.; Collaborators: Shifley, S., Kabrick, J.M., Larsen, D.R. – Contribution 50%)	2015-2018
\$1,716	Missouri Department of Natural Resources Mercury Deposition Network (MDN) (Contribution 100%)	2015-2016
\$119,800	USDA Forest Service, Northern Research Station Effects of stand density and composition on mitigation and adaptability to climate change in pine and hardwood forests and woodlands of Missouri. (PI: Knapp, B.O.; Collaborators: Kabrick, J.M., Dey, D.C. – Contribution 80%)	2014-2019
\$271,482	Missouri Department of Conservation Silvicultural options for improving the quality and composition of mixed bottomland hardwood forests of northern Missouri. (PI: Knapp, B.O.; Co-PI: Olson, M.; Collaborators: Henderson, D., Elliot, A., Gao, S., Bixler, T., Treiman, T., Fleming, J., Hartwig, D., Jacobson, J. – Contribution: 50%)	2014-2023
\$82,707	Joint Fire Science Program, Sponsored by USDA and USDI Effects of fuels treatments on reduction of fire risk and restoration of oakpine forests in Central Hardwood Forest landscapes. Joint Fire Science. (Co-PIs: Knapp, B.O., He, H.; Collaborators: Kabrick, J.M., Hanberry, B.B., He, H. – Contribution: 40%)	2014-2018
\$50,000	USDA Forest Service, Northern Research Station Mixedwoods workshop (Co-PIs: <u>Knapp, B.O.</u> , Kabrick, J.M.; Collaborators: Dey, D.C. – Contribution: 25%)	2014-2019
\$6,119	MU Research Council Effects of prescribed burning frequency on stand structure, foliar nutrients, and radial growth of hardwood trees in the Missouri Ozarks.	2013-2014

(PI: Knapp, B.O.; Collaborator: Stambaugh, M.C. – Contribution: 90%)

\$2,000 Richard Wallace Faculty Incentive Grant

2013-2014

Integrating education and research through demonstration sites: effects of the frequency and season of prescribed burning on prairie restoration at

the Baskett Wildlife Research and Education Center.

(PI: Knapp, B.O.; Collaborator: Hosman, K. – Contribution: 50%)

\$39,945 United States Geological Survey

2011-2016

National Atmospheric Deposition Program

(PI: Hubbart, J.A.; Collaborator: Knapp, B.O. – Contribution: 10%)

STUDENT ADVISING

Visiting Scholars

I have advised one visiting scholar.

<u>Name</u> <u>Employer</u> <u>Time period</u>

Wang, Shunzhong Chinese Academy of Sciences December 2018-December 2019

Post-doctoral Advising

I have advised three post-doctoral researchers.

<u>Name</u> <u>Funding agency</u> <u>Time period</u>

Woodbury, David Missouri Dept. of Conservation April 2025 - Present

Dee, Justin Missouri Dept. of Conservation August 2019-January 2020 Vickers, Lance USDA Forest Service August 2015-August 2022

Graduate Student Advising

I have served as the chair for 3 Ph.D. student and 20 M.S. students. I have served as co-chair for 1 M.S. student and 1 Ph.D student and have served on the committees of 5 Ph.D. students and of 7 M.S. students.

Student	<u>Role</u>	<u>Degree</u>	<u>Status</u>
Anderson, Samantha	Chair	M.S.	2015-2017 (graduated)
Crouch, Connor	Chair	M.S.	2017-2019 (graduated)
Curtin, Patrick	Chair	M.S.	2015-2017 (graduated)
Esparza-Harris, Kendra	Co-Chair	Ph.D.	2023-Present
Fillingim, Hope	Chair	Ph.D	2019-2023 (graduated)
Fairchild, Helena	Chair	M.S.	2025-Present
Ghilardi, Casey	Chair	M.S.	2014-2016 (graduated)
Goldberg, Ian	Chair	M.S.	2022-2024 (graduated)
Good, Guerric	Co-chair	M.S.	2014-2019 (graduated)
Grochowski, Jacob	Chair	M.S.	2021-2023 (graduated)
Hayes, Jered	Chair	M.S.	2015-2019
Harpold, Trystan	Chair	M.S.	2020-2022 (graduated)
Hayford, Isaac	Chair	Ph.D.	2019-2023 (graduated)
Huffman, Abby	Chair	M.S.	2020-2022 (graduated)
Jensen, George	Chair	M.S.	2020-2022 (graduated)

Klug, Karen	Chair	M.S.	2024-Present
Kronenberg, Raelin	Chair	Ph.D.	2023-Present
Maddox, Dacoda	Chair	M.S	2019-2022 (graduated)
Maginel, Calvin	Chair	M.S.	2013-2015 (graduated)
Nugraha, Muhamad	Chair	M.S.	2017-2019 (graduated)
Rives, Robert	Chair	M.S.	2014-2016 (graduated)
Scott, Sloane	Chair	M.S.	2022-2024 (graduated)
Vaughan, Ian	Chair	M.S.	2020-2022 (graduated)
Vitale, Jacob	Chair	M.S.	2025-Present
Wachuta, Mary	Chair	M.S.	2016-2018 (graduated)
Ciccolini, Skylar	Member	M.S.	2024-Present
Cooley, Amanda	Member	M.S.	2015-2017 (graduated)
Clabo, David	Member	Ph.D.	2016-2018 (graduated)
Dibala, Ryan	Member	Ph.D.	2015-2019 (graduated)
Gross, Ryan	Member	M.S.	2023-Present
Hicks, David	Member	M.S.	2020-2023 (graduated)
Kinkead, Carter	Member	Ph.D.	2014-2017
Lyczak, Stephen	Member	M.S.	2016-2019 (graduated)
Ritter, Sam	Member	M.S.	2020-2021 (graduated)
Steinke, Haley	Member	M.S.	2024-Present
Sudekum, Houston	Member	M.S.	2017-2019 (graduated)
Vickers, Lance	Member	Ph.D.	2012-2015 (graduated)
Weber, Nathan	Member	Ph.D.	2014-2024
Wimms, Chantelle	Member	M.S.	2022-Present
Wolfgeher, Amanda	Member	M.S.	2014-2017 (graduated)
Yocom-Russell, CJ	Member	Ph.D.	2023-Present

*Undergraduate research and internships*I have advised 2 undergraduate research students and 14 undergraduate internship students.

<u>Student</u>	<u>Role</u>	<u>Semester</u>	<u>Graduation</u>
Skipton, Jake	Internship supervisor	Fall 2024 – present	2026 (planned)
Kickbusch, Elizabeth	Internship supervisor	Spring 2024 – present	2026 (planned)
Wood, Ava	Internship supervisor	Spring 2023	2025 (planned)
Noel, Luke	Internship supervisor	Summer 2022	2022
Schmitz, Cade	Internship supervisor	Spring 2022	2022
Stevens, Erin	Internship supervisor	Spring 2021	2022
Winfrey, Benton	Internship supervisor	Summer 2021	2022
Worsham, Jacob	Internship supervisor	Summer 2020	2020
Lamb, Spencer	Internship supervisor	Summer 2019	2019
Maile, Michelle	Internship supervisor	Spring 2019	2020
Bross, Alexander	Internship supervisor	Summer 2018	2019
Beckerman, Tyler	Internship supervisor	Fall 2018	2019
Hart, Jacob	Internship supervisor	Summer 2018	2020
Kerley, David	Internship supervisor	Spring 2018	2018

O'Brien, Trevor	Research mentor	Spring 2016	2016
Hullinger, Michael	Research mentor	Spring 2014	2014

Undergraduate advising

Prior to the 2021-2022 academic year, the School of Natural Resources had faculty provide academic advising to undergraduates. Each semester, I was the academic advisor for 7 to 20 students, assisting with course scheduling and registration. These duties shifted to professional advisors in Fall 2021.

TEACHING EXPERIENCE

I currently teach 4 courses each year (AFRI 2191, FOREST 2544, FOREST 4330/7330, and FOREST 3207) and one course (FOREST 8430 every other year). I am the coordinator of an undergraduate internship course (NATR 4940).

	•	
•	Instructor, AFRI 2191, Agriculture and Natural Resources – Humanities Tropical Ecology and Conservation, Study Abroad, Costa Rica Undergraduate level; Enrollment: 10 students	Winter 2023-Present
•	Instructor, FOREST 2544, Introduction to Silviculture and Management 1 Credit hour; Undergraduate level; 10-20 students	Summer 2013-Present
•	Instructor, FOREST 3207, Forest Fire Control and Use 3 credit hours; Undergraduate level; Enrollment: 30 students	Fall 2017-Present
•	Co-Instructor, FOREST 3207, Forest Fire Control and Use 2 credit hours; Undergraduate level; Enrollment: 30 students	Fall 2015
•	Instructor, FOREST 4320/7320, Forest Ecology 5 credit hours; Undergraduate/Graduate level; 20-30 students	Fall 2020
•	Instructor, FOREST 4330/7330, Practice of Silviculture 4 credit hours; Undergraduate/Graduate level; 20-30 students	Spring 2013-Present
•	Coordinator, FOREST 4940, Internship in Forestry	All 2016-2023

3 credit hours; Undergraduate level; variable enrollment
 Instructor, FOREST 8430, Applied Silviculture
 Spring (e) 2014-Present

3 credit hours; Graduate level; Enrollment: 5-10 students

• Instructor, FOREST 9087, Seminar in Forestry
1 credit hour; Graduate level; Enrollment: 5-10 students

• Instructor, NAT_R 2160, Issues in Natural Resources and the Environment 3 credit hours; Undergraduate level; 60 students

• Coordinator, NAT_R 4940, Internship in Natural Resources 3 credit hours; Undergraduate level; variable

SERVICE POSITIONS

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•	Society of American Foresters Silviculture Working Group (D2) Chair	2020-2022
•	Society of American Foresters Silviculture Working Group (D2)	2016-2020
	Communication coordinator	

• Conference session organizer, The Benefits and Challenges of Managing Hardwood-Softwood Mixtures in Eastern North America, Society of American Foresters National Convention 2016

State of Missouri

•	Missouri Forest Resources Advisory Council – Chair	2025-Present
•	Missouri Forest Resources Advisory Council – Vice Chair	2024
•	Society of American Forests, Missouri Chapter – Secretary	2020-2021
•	section of the sectio	2014-2020
	Committee Chair	
•	Missouri Department of Conservation, Silviculture Committee	2012-2014
	Management Guidelines	
•	Missouri Department of Conservation, Silviculture Committee	2012-2014

University of Missouri	
 Research Council Grant Review board 	2020-2023
 Committee on Undergraduate Education (CUE) 	2018-2021
Student Fee Capital Improvement Committee	2015-2020

College of Agriculture, Food, and Natural Resources

•	Website Design Committee	2022-2023
•	CAFNR Policy Committee Chair	2021-2022
•	CAFNR International Education Committee	2017-Present
•	Advising, Learning, and Teaching Enhancement Committee	2016-2018
•	Scholarship and Awards Committee	2015-2017

School of Natural Resources

Resources Conservation

•	Director's Faculty Advisory Council member	2019-Present
•	Agroforestry and Forestry Graduate Student Association faculty advisor	2019-Present
•	Promotion and Tenure committee member	2019-2022
•	Policy committee chair	2021-2022
•	Policy committee member	2019-2021
•	Undergraduate curriculum committee member	2016-2020
•	Forestry Club faculty advisor	2016- Present
•	Undergraduate Degree Restructuring Committee	2016-2017
•	Search committee member – Assistant Professor Avian Ecology	2015-2016
•	Search committee member – Assistant Professor Wildlife Ecology	2015-2016
•	Search committee member – Research Scientist, Grasslands Biomass and Natural	2015

Knapp, Benjamin O.	Curriculum Vitae October 2025
Department of Forestry (dissolved in 2016 restructuring)	
 Website/Facebook page – manager 	2013-2016
Fire Curriculum Committee	2012-2016
 Student Forestry Club – Faculty Adviser 	2012-2016
EDITORIAL AND REVIEWER Conference proceeding editor	

Conference proceeding editor

 Kabrick, J.M., Dey, D.C., Larsen, D.R., <u>Knapp, B.O.</u>, Shifley, S., and Stambaugh, M.C. Editors. 2017. Proceedings of the 20th Central Hardwood Forest Conference. Gen. Tech. Rep. NRS-P-167. Newtown Square, PA: U.S. Department of Agriculture, Forest Service, Northern Research Station. 313 p.

Associate editor

• New Forests; 15 manuscripts handled

• Joint Fire Science Program, Graduate Student Research

2019-Present

2018

2024 D

Journal reviews

I have regularly reviewed manuscripts since 2012, for the following journals: American Midland Naturalist; AoB PLANTS; Canadian Journal of Forest Research; Ecology; Ecosphere; Forest Ecology and Management; Forest Science; Forest Systems; Forestry; Forests; Journal of Forestry; New Forests; Northern Journal of Applied Forestry; Restoration Ecology; Scandinavian Journal of Forest Research; Southeastern Naturalist; Southern Journal of Applied Forestry

Grant proposal reviews

 Lincoln University Ag Research Funds University of Missouri Research Board 	2014 2013
Other	2013

1 book proposal review
 USDA Forest Service, Central Hardwoods Climate Change Response
 Framework "Adaptation Strategies and Approaches"

MENTORSHIPS

•	Member of mentoring committee of Seunguk Shin, Assistant Professor	2024-Present
	School of Natural Resources, University of Missouri	
•	Member of mentoring committee of Ron Revord, Assistant Professor	2023-Present
	School of Natural Resources, University of Missouri	
•	Chair of mentoring committee of Samniqueka Halsey, Assistant	2020-Present
	Professor, School of Natural Resources, University of Missouri	
•	Member of mentoring committee of Alba Argerich, Associate Professor	2020-Present
	School of Natural Resources, University of Missouri	
•	Member of mentoring committee of Jeff Wood, Assistant Professor,	2019-Present
	School of Natural Resources, University of Missouri	
•	Member of mentoring committee of Michael Byrne, Associate Professor,	2018-Present
	School of Natural Resources, University of Missouri	

		October 2025
•	Member of mentoring committee of Mitch Weegman, Assistant Professor,	2017-2021
	School of Natural Resources, University of Missouri	
•	Mentor for MU undergraduate students graduating with honors (2 students	2014-Present
	in May 2014, 1 student in December 2014)	
•	Nicodemus Wilderness Project – Apprentice Ecologist Initiative	2013

AFFILIATIONS

Knapp, Benjamin O.

• Ecological Society of America

• Golden Key International Honor Society

• Society for Ecological Restoration

Curriculum Vitae

• Society of American Foresters

PROFESSIONAL DEVELOPMENT

•	University of Missouri Provost Leadership Program	2023-2024
•	Online Teaching Foundations, Course Design and Technology, University	October 2019
	of Missouri	
•	CAFNR Grant Writing Workshop, University of Missouri	April 2017
•	Promotion and Tenure Workshop, University of Missouri	March 2017
•	Training in online tools (MU Connect), University of Missouri	July 2016
•	Wakonse Conference on College Teaching, Camp Miniwanca, Shelby, MI	May 2014
•	Promotion and Tenure Workshop, University of Missouri	May 2014
•	Training in online tools (MU Connect), University of Missouri	January 2014
•	Training in online teaching tools (Blackboard, MyZou), University of Missouri	August 2012