

JOSHUA PUHLICK

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Education

- Ph.D. Forest Resources, University of Maine, Orono, Maine, 2015
- M.S. Forestry, Northern Arizona University, Flagstaff, Arizona, 2011
- Graduate Certificate, Applied Statistics, Northern Arizona University, 2011
- B.S. Horticulture, University of Connecticut, Storrs, Connecticut, 2004
- B.S. Forestry, University of Maine, Orono, Maine, 1998

Professional Experience

- 2021 - present, Assistant Scientist, The Jones Center at Ichauway, Newton, GA
- 2018 - 2021, Research Associate, University of Maine, Orono, ME
- 2015 - 2018, Postdoctoral Research Associate, University of Maine, Orono, ME
- 2011 - 2015, Graduate Research Assistant, University of Maine, Orono, ME
- 2012 - 2013, Database Manager, Penobscot Experimental Forest, Bradley, ME
- 2008 - 2011, Graduate Research Assistant, Northern Arizona University, Flagstaff, AZ
- 2004 - 2008, Consultant Forester, Sole Proprietorship, Putney, VT
- 2004 - 2005, Assistant Manager, Mettowee Mill Nursery, Dorset, VT
- 1999 - 2002, Forester, International Paper Corporation, Ticonderoga, NY
- 1997, Timber Cruiser, Champion International Corporation, Costigan, ME
- 1996, Forest Technician, Ranger Division, USDI Acadia National Park, Bar Harbor, ME
- 1994 - 1998, Laboratory Technician, Applied Ecology, University of Maine, Orono, ME

Faculty Appointments

- 2021 - present, Faculty Associate, University of Maine, Orono, ME

Teaching Experience

- 2015 & 2017, Instructor, *Silviculture*, 3 credits, University of Maine, Orono, Maine (28 and 38 students in 2015 and 2017, respectively)
- 2015 & 2017, Co-Instructor, *Forest Ecology and Silviculture Field Laboratory*, 2 credits, University of Maine, Orono, Maine (22 and 33 students in 2015 and 2017, respectively)
- 2012 & 2013, Teaching Assistant, *Forest Landscape Management and Planning Laboratory*, 2 credits, University of Maine, Orono, Maine (22 students)

Peer-Reviewed Publications

Harley, G. L., M. D. Therrell, J. T. Maxwell, A. Bhuta, J. C. Bregy, K. J. Heeter, T. Patterson, M. Rochner, M. T. Rother, M. Stambaugh, N. E. Zampieri, J. Altman, S. A. Collins-Key, C. M. Gentry, C. Guiterman, J. M. Huffman, D. J. Johnson, D. J. King, E. Larson, C. Leland, H. T. T. Nguyen, N. Pederson, **J. J. Puhlick**, M. P. Rao, M. Rodriguez-Caton, J. B. Sakulich, N. Singh, C. S. Tucker, S. L. van de Gevel, A. L. Kaiser, S. Ahmad. The Longleaf Tree-Ring Network: Reviewing and expanding the utility of *Pinus palustris* Mill. dendrochronological data across the southeastern United States. *Submitted*.

Puhlick, J. J. and I. J. Fernandez. Change in soil carbon, nitrogen, and phosphorus after timber harvesting in northern hardwood forests. *In review*.

Puhlick, J. J., S. T. Brantley, T. L. O'Halloran, L. Clay, and K. D. Klepzig. 2022. Perspectives: Carbon markets might incentivize poorer ecological outcomes in longleaf pine ecosystems. *For. Ecol. Manage.* 520. doi: 10.1016/j.foreco.2022.120421.

Puhlick, J. J., A. R. Weiskittel, I. J. Fernandez, K. A. Solarik, and D. J. H. Sleep. 2022. Evaluation of projected carbon accumulation after implementing different forest management treatments in mixed-species stands in northern Maine. *Carbon Manag.* 13(1): 190-204. doi: 10.1080/17583004.2022.2063761.

Puhlick, J. J., D. C. Laughlin, M. M. Moore, C. H. Sieg, S. T. Overby, and J. D. Shaw. 2021. Soil properties and climate drive ponderosa pine seedling presence in the southwestern USA. *For. Ecol. Manage.* 486. doi: 10.1016/j.foreco.2021.118972.

Puhlick, J. J., I. J. Fernandez, and J. W. Wason. 2021. Non-native earthworms invade forest soils in Northern Maine, USA. *Forests.* 12, 80. doi: 10.3390/f12010080.

Puhlick, J. J., A. R. Weiskittel, L. S. Kenefic, C. W. Woodall, and I. J. Fernandez. 2020. Strategies for enhancing long-term carbon sequestration in mixed-species, naturally regenerated Northern temperate forests. *Carbon Manag.* 11(4): 381-397. doi: 10.1080/17583004.2020.1795599.

Puhlick, J. J. and I. J. Fernandez. 2020. Influence of mechanized timber harvesting on soil compaction in northern hardwood forests. *Soil Sci. Soc. Am. J.* 84(5): 1737-1750. doi: 10.1002/saj2.20127.

Ferrara, J. V., **J. J. Puhlick**, T. A. Patterson, and K. C. Glover. 2020. Dredging impacts on soil properties of the Kankakee River System 150 years after perturbation. *Wetlands.* 40(6): 2577-2584. doi: 10.1007/s13157-020-01347-9.

Puhlick, J. J., S. Fraver, I. J. Fernandez, A. Teets, A. R. Weiskittel, and L. S. Kenefic. 2019. Site quality, disturbance, and vegetation effects on carbon storage and accumulation in old, mixed-species stands in central Maine, USA. *Nat. Area. J.* 39(4): 429-441. doi: 10.3375/043.039.0406.

- Puhlick, J. J.**, C. Kuehne, and L. S. Kenefic. 2019. Crop tree growth response and quality after silvicultural rehabilitation of cutover stands. *Can. J. For. Res.* 49(6): 670-679. doi: 10.1139/cjfr-2018-0248
- Kuehne C., **J. J. Puhlick**, A. R. Weiskittel, A. Cutko, D. Cameron, N. Sferra, J. Schlawin. 2018. Data set of forest metrics for comparing stand structure and growth and yield between Ecological Reserves and managed forests of Maine, USA. *Ecology*. doi: 10.1002/ecy.2500
- Puhlick, J. J.**, C. W. Woodall, and A. R. Weiskittel. 2017. Implications of land-use change on forest carbon stocks in the eastern United States. *Environ. Res. Lett.* 12. doi: 10.1088/1748-9326/aa597f
- Puhlick, J. J.**, A. R. Weiskittel, I. J. Fernandez, S. Fraver, L. S. Kenefic, R. S. Seymour, R. K. Kolka, L. E. Rustad, and J. C. Brissette. 2016. Long-term influence of alternative forest management treatments on total ecosystem and wood product carbon storage. *Can. J. For. Res.* 46(11): 1404-1412. doi: 10.1139/cjfr-2016-0193
- Puhlick, J. J.**, A. R. Weiskittel, S. Fraver, M. B. Russell, and L. S. Kenefic. 2016. Assessing the role of natural disturbance and forest management on dead wood dynamics in mixed-species stands of central Maine, USA. *Can. J. For. Res.* 46(9): 1092-1102. doi: 10.1139/cjfr-2016-0177
- Puhlick, J. J.**, I. J. Fernandez, and A. R. Weiskittel. 2016. Evaluation of forest management effects on the mineral soil carbon pool of a lowland, mixed-species forest in Maine, USA. *Can. J. Soil Sci.* 96(2): 207-218. doi: 10.1139/cjss-2015-0136
- Puhlick, J. J.**, S. Fraver, I. J. Fernandez, A. R. Weiskittel, L. S. Kenefic, R. K. Kolka, and M. C. Gruselle. 2016. Factors influencing organic-horizon carbon pools in mixed-species stands of central Maine, USA. *For. Ecol. Manage.* 364: 90-100. doi: 10.1016/j.foreco.2016.01.009
- Puhlick, J. J.**, M. M. Moore, and A. R. Weiskittel. 2013. Factors influencing height-age relationships and recruitment of ponderosa pine regeneration in northern Arizona. *West. J. Appl. For.* 28(3): 91-96. doi: 10.5849/wjaf.12-021
- Russell, M. B., L. S. Kenefic, A. R. Weiskittel, **J. J. Puhlick**, and J. C. Brissette. 2012. Assessing and modeling standing deadwood attributes under alternative silvicultural regimes in the Acadian Forest region of Maine, USA. *Can. J. For. Res.* 42(11): 1873-1883. doi: 10.1139/x2012-131
- Puhlick, J. J.** 2012. Efficiency of sampling tree regeneration with two plot sizes in northern Arizona. *West. J. Appl. For.* 27(2): 100-101. doi: 10.5849/wjaf.10-039
- Puhlick, J. J.**, D. C. Laughlin, and M. M. Moore. 2012. Factors influencing ponderosa pine regeneration in the southwestern USA. *For. Ecol. Manage.* 264: 10-19. doi: 10.1016/j.foreco.2011.10.002

Funded Research Grant Proposals

Weiskittel, A. R. and J. J. Puhlick. 2020. Projecting carbon sequestration on the Maine Adaptive Silviculture Network. National Council of Air and Stream Improvement. **\$10,000.**

Puhlick, J. J. and A. R. Weiskittel. 2019. Projecting carbon storage and accumulation of the Maine Ecological Reserves. Sponsored by The Nature Conservancy Maine Field Office and State of Maine Stewardship and Ecological Management Office. **\$25,700.**

Puhlick, J. J. and I. J. Fernandez. 2019. Relative risk of soil nutrient depletions among different intensities of tree biomass removal during timber harvesting in Maine, USA. Cooperative Forestry Research Unit and Center for Undergraduate Research. **\$3,100.**

Puhlick, J. J., A. R. Weiskittel, B. E. Roth, and A. S. Nelson. 2018. Evaluation of silvicultural options for increasing productivity of early successional stands in the Acadian Forest Region. Center for Advanced Forestry Systems. **\$22,810.**

Puhlick, J. J., M. -C. Gruselle, I. J. Fernandez, and B. E. Roth. 2018. Assessing and monitoring soil productivity, carbon storage, and conservation on the Maine Adaptive Silviculture Experimental Network. Cooperative Forestry Research Unit. **\$65,583.**

Puhlick, J. J., M. -C. Gruselle, and I. J. Fernandez. 2017. Assessing and monitoring the influence of forest management practices on soil productivity, carbon storage, and conservation in the Acadian Forest Region. Sustainable Forestry Initiative Conservation Grant Proposal. **\$90,000.**

Puhlick J. J., and C. Kuehne. 2017. Development of individual-tree and stand-level approaches for predicting hardwood mortality and growth response to forest management treatments in mixed-species forests of northeastern North America. Sponsored by the Cooperative Forestry Research Unit. **\$34,102.**

Weiskittel, A. R., Puhlick J. J., and C. Kuehne. 2017. Forest composition, structure, and change on the Maine Ecological Reserves. Sponsored by The Nature Conservancy Maine Field Office and State of Maine Stewardship and Ecological Management Office. **\$26,875.**

Puhlick, J. J., D. C. Laughlin, M. M. Moore, C. H. Sieg, and S. T. Overby. 2017. Evaluating the influence of soil attributes on ponderosa pine regeneration in the southwestern USA. USDA Forest Service Rocky Mountain Research Station Funding. **\$23,018.**

Puhlick, J. J., S. Fraver, and L. S. Kenefic. 2017. Using tree-ring analysis to infer site quality, disturbance history, and carbon storage in reference stands on the Penobscot Experimental Forest. Sponsored by the PEF Research Operations Team. **\$4,894.**

Weiskittel, A. R., Puhlick, J. J., and C. W. Woodall. 2015. Projecting net carbon storage and sequestration of the northeastern US forest and forest products sector under alternative future scenarios. USDA ARS Forest Products Research Funding. **\$116,736.**

Weiskittel, A. R., Puhlick, J. J., and C. W. Woodall. 2015. Evaluation of techniques for assessing current and future forest carbon stock dynamics. USDA Forest Service Joint Venture Agreement Funding. **\$28,000.**

Puhlick, J. J., and A. R. Weiskittel. 2013. The influence of silvicultural treatment and site quality on forest soil nutrients on the Penobscot Experimental Forest. Sponsored by the Maine Agricultural and Forest Experiment Station. **\$5,740.**

Puhlick, J. J., A. R. Weiskittel, and I. J. Fernandez. 2013. Forest soil carbon storage and dynamics on the Penobscot Experimental Forest. Sponsored by the PEF Research Operations Team. **\$3,250.**

Puhlick, J. J., and A. R. Weiskittel. 2012. Estimating herbaceous plant community carbon and nitrogen concentrations on the Penobscot Experimental Forest. Sponsored by the Maine Agricultural and Forest Experiment Station. **\$5,457.**

Puhlick, J. J., A. R. Weiskittel, and S. Fraver. 2012. Estimating forest floor and standing dead wood biomass and carbon content on the Penobscot Experimental Forest. Sponsored by the PEF Research Operations Team. **\$2,728.**

Other Research Grant Proposals

Knapp, B. O., J. J. Puhlick, and J. L. Willis. 2022. Silvicultural strategies for promoting longleaf pine recruitment in multi-aged stands. USDA Forest Service Southern research Station Proposal. Not funded.

Puhlick, J. J., A. Daigneault, and R. Lemin Jr. 2021. Economic evaluation of different forest management strategies for altering species composition in stands with American beech and beech bark disease. Cooperative Forestry Research Unit Full-Proposal. Not funded.

Puhlick, J. J., I. J. Fernandez, and C. W. Woodall. 2021. Factors governing the potential for enhanced carbon sequestration in Maine. Cooperative Forestry Research Unit Pre-Proposal. Not funded.

Puhlick, J. J., I. J. Fernandez, J. W. Wason, and S. Fraver. 2019. Abrupt forest change agents: Invasive earthworms and forest health. Cooperative Forestry Research Unit Pre-Proposal. Not funded.

Wason, J. W., I. J. Fernandez and J. J. Puhlick. 2019. Improving seedling success with soil biochar amendments. Cooperative Forestry Research Unit Pre-Proposal. Not funded.

Gruselle, M. -C., and J. J. Puhlick. 2017. Evaluating the long-term and future influence of silvicultural treatments and soil quality on forest productivity and carbon stocks at Austin Pond in central Maine, USA. Cooperative Forestry Research Unit Full-Proposal. Not funded.

Simons-Legaard, E. M., K. R. Legaard, J. J. Puhlick, and A. R. Weiskittel. 2016. Anticipating the carbon consequences of forest insect outbreaks and regional changes in land use to mitigate risk and economic loss. NASA-NIFA Carbon Cycle Science Proposal. Not funded.

Other Publications

Puhlick, J. J., and S. Bugbee. 2021. Maine Adaptive Silviculture Network (MASN) Field Tour Booklet. Maine Society of American Foresters and University of Maine, Center for Research on Sustainable Forests and Cooperative Forestry Research Unit.

Puhlick, J. J., and A. R. Weiskittel. 2021. Carbon stocks and sequestration on ecological reserves in Maine. General Technical Report. University of Maine, Center for Research on Sustainable Forests. Available on the Maine Natural Areas Program website.

Roth, E., **J. J. Puhlick**, and I. J. Fernandez. 2020. Relative risk of soil nutrient depletion among different intensities of biomass removal during timber harvesting in Maine, USA. Final Report. University of Maine, Center for Undergraduate Research.

Puhlick, J. J., A. R. Weiskittel, B. E. Roth, and A. S. Nelson. 2019. Evaluation of silvicultural options for increasing productivity of early successional stands in the Acadian Forest Region. Final Report. Center for Advanced Forestry Systems.

Ferrara, J. V., K. C. Glover, and **J. J. Puhlick**. 2019. Dredging impacts on soil properties of the Kankakee River System 150 years after perturbation. Senior Capstone Project.

Kenefic, L. S., K. M. Gerndt, **J. J. Puhlick**, and C. Kuehne. 2018. Overstory and regeneration data from the "Rehabilitation of cutover mixedwood stands" study at the Penobscot Experimental Forest. 2nd Edition. Fort Collins, CO: Forest Service Research Data Archive. <https://doi.org/10.2737/RDS-2016-0024-2>

Kuehne, C., **J. J. Puhlick**, and A. R. Weiskittel. 2018. Ecological Reserves in Maine: Initial results of long-term monitoring. General Technical Report on behalf of Maine Natural Areas Program and The Nature Conservancy.

Puhlick, J. J. 2015. How silvicultural treatments and site quality affect carbon storage on the Penobscot Experimental Forest: A 60-year perspective. Ph.D. dissertation, University of Maine, Orono, ME. 169 p. <http://digitalcommons.library.umaine.edu/etd/2262>

Waskiewicz, J. D., L. S. Kenefic, N. S. Rogers, **J. J. Puhlick**, J. C. Brissette, and R. J. Dionne. 2015. Sampling and measurement protocols for long-term silvicultural studies on the Penobscot Experimental Forest. Gen. Tech. Rep. NRS-147. Newtown Square, PA: USDA, Forest Service, Northern Research Station. 32 p.

Waskiewicz, J. D., L. S. Kenefic, **J. J. Puhlick**, N. S. Rogers, and J. C. Brissette. 2014. Overstory tree and regeneration data from the "Management Intensity Demonstration" study at Penobscot Experimental Forest. Fort Collins, CO: Forest Service Research Data Archive. <http://dx.doi.org/10.2737/RDS-2014-0003>

Brissette, J. C., L. S. Kenefic, M. B. Russell, and **J. J. Puhlick**. 2012. Overstory tree and regeneration data from the "Silvicultural Effects on Composition, Structure, and Growth" study at Penobscot Experimental Forest. USDA, Forest Service, Northern Research Station. <http://dx.doi.org/10.2737/RDS-2012-0008>

Puhlick, J. J. 2011. Regional- and local-scale modeling of ponderosa pine seedling densities in the Southwest. M.Sc. thesis, Northern Arizona University, Flagstaff, AZ. 80 p.

Presentations at Professional Conferences

Puhlick, J. J. 2022. Evaluation of carbon accumulation after implementation of forest management treatments in longleaf pine ecosystems. Longleaf Pine Carbon Workshop (oral presentation). Newton, GA, April 11-13, 2022.

Puhlick, J. J. 2022. Longleaf pine restoration and adaptive management. Longleaf Pine Carbon Workshop (field tour). Newton, GA, April 11-13, 2022.

Puhlick, J. J., B. T. Rutledge, B. O. Knapp, J. L. Willis. 2022. Silvicultural strategies for promoting longleaf pine recruitment in multi-aged stands. Southeastern SAF Annual Meeting (poster presentation). Pine Mountain, GA, February 9-11, 2022.

Bugbee, S. and J. J. Puhlick. 2021. Silvicultural strategies to promote forest resiliency to future change. Maine Adaptive Silviculture Network Field Tour. Sponsored by the Maine Society of American Foresters and the University of Maine, Center for Research on Sustainable Forests and Cooperative Forestry Research Unit. Nashville Plantation, ME, August 18, 2021.

Weiskittel, A. R. and J. J. Puhlick. 2021. Carbon accumulation after implementation of forest management treatments on the Maine Adaptive Silviculture Network. Maine Adaptive Silviculture Network Field Tour. Sponsored by the Maine Society of American Foresters and the University of Maine, Center for Research on Sustainable Forests and Cooperative Forestry Research Unit. Nashville Plantation, ME, August 18, 2021.

Puhlick, J. J. and J. Goldsmith. 2021. Non-native earthworm discoveries and implications for forest health. Maine Adaptive Silviculture Network Field Tour. Sponsored by the Maine Society of American Foresters and the University of Maine, Center for Research on Sustainable Forests and Cooperative Forestry Research Unit. Nashville Plantation, ME, August 18, 2021.

Puhlick, J. J., J. Goldsmith, and A. Brann. 2021. Strategies for altering species composition in stands with American beech and beech bark disease on the Maine Adaptive Silviculture Network. Maine Adaptive Silviculture Network Field Tour. Sponsored by the Maine Society of American Foresters and the University of Maine, Center for Research on Sustainable Forests and Cooperative Forestry Research Unit. Nashville Plantation, ME, August 18, 2021.

Kenefic, L. S. and J. J. Puhlick. 2020. Carbon outcomes of silvicultural alternatives at the Penobscot Experimental Forest. Maine Climate Table, Forest Carbon Discussion Group (co-presentation, oral presentation), Online Webinar. September 23, 2020. Recording available online: <https://crsf.umaine.edu/resources-2/>

Puhlick, J. J. 2020. Strategies for enhancing long-term carbon sequestration in mixed-species, naturally regenerated northern temperate forests. Sustainable Forestry Initiative Inc. Sounding Board (oral presentation), Online Workshop. May 20, 2020. Recording available online: <https://www.forests.org/conservation-impact-project/>

Puhlick, J. J., A. R. Weiskittel, B. E. Roth, and A. S. Nelson. 2019. Growth and yield of hybrid poplar and white spruce in pure and mixed plantations in eastern Maine. New England SAF Winter Meeting (oral presentation), Burlington, VT, March 27-29, 2019.

Puhlick, J. J., A. R. Weiskittel, B. E. Roth, and A. S. Nelson. 2019. Silvicultural options for increasing productivity of early successional stands: 14-year results of the Silvicultural Intensity and Species Composition Experiment. New England SAF Winter Meeting (poster presentation), Burlington, VT, March 27-29, 2019.

Puhlick, J. J. 2018. Opportunities for assessment of long-term site productivity across contrasting sites in Maine. *Workshop on: Long-term site productivity research: lessons from other regions and opportunities for Maine.* Sponsored by the Center for Research on Sustainable Forests and the Cooperative Forestry Research Unit at the University of Maine (oral presentation), Orono, ME, June 7, 2018.

Puhlick, J. J. and T. Gilbert. 2018. Research and best management practices for water and soil. *Workshop on: Long-term site productivity research: lessons from other regions and opportunities for Maine.* Sponsored by the Center for Research on Sustainable Forests and the Cooperative Forestry Research Unit at the University of Maine (field tour presentation), Maine Adaptive Silviculture Network Installation, Grand Falls Township, ME, June 8, 2018.

Puhlick, J. J., M. -C. Gruselle, and I. J. Fernandez. 2018. Assessing and monitoring the influence of forest management practices on soil productivity, carbon storage, and conservation in the Acadian Forest Region. Northeastern Soil Monitoring Cooperative Workshop (oral presentation), Troy, NY, March 28, 2018.

Puhlick, J. J., C. Kuehne, and L. S. Kenefic. 2018. Crop tree growth response and quality after silvicultural rehabilitation of cutover stands. New England SAF Winter Meeting (oral presentation), Nashua, NH, March 28-29, 2018.

Kenefic, L. S. and J. J. Puhlick. 2018. Using soil attributes to inform silvicultural prescriptions and carbon storage objectives. New England Regional Council on Forest Engineering (co-presentation, oral presentation), Orono, ME, March 12-13, 2018.

Puhlick, J. J., D. C. Laughlin, M. M. Moore, C. H. Sieg, S. T. Overby, and J. D. Shaw. 2017. A refined regional model for predicting southwestern ponderosa pine regeneration densities. SAF National Convention, (poster presentation), Albuquerque, NM, November 15-17, 2017.

Puhlick, J. J., A. R. Weiskittel, and L. S. Kenefic. 2017. Silvicultural effects on carbon sequestration at the Penobscot Experimental Forest from 1950-2016. New England SAF Winter Meeting (poster presentation), Bangor, ME, March 8-10, 2017.

Gruselle, M. -C., S. Fraver, J. J. Puhlick, I. J. Fernandez, and C. W. Woodall. 2017. Buried dead wood: An often-overlooked detrital pool in the Acadian Forest. New England SAF Winter Meeting (poster presentation), Bangor, ME, March 8-10, 2017.

Puhlick, J. J., A. R. Weiskittel, and C. W. Woodall. 2016. Evaluating land-use change and associated forest carbon dynamics in the eastern United States. SAF National Convention, technical session (oral presentation), Madison, WI, November 2-6, 2016.

Puhlick, J. J., A. R. Weiskittel, I. J. Fernandez, S. Fraver, L. S. Kenefic, and R. S. Seymour. 2015. Comparisons of carbon pools among alternative management regimes on the Penobscot Experimental Forest. New England SAF Winter Meeting (poster presentation), Fairlee, VT, March 24-27, 2015.

Puhlick, J. J., A. R. Weiskittel, I. J. Fernandez, S. Fraver, L. S. Kenefic, and R. S. Seymour. 2014. How silvicultural treatments and site quality affect carbon storage in a mixed species forest in Maine, USA. IUFRO World Congress, special session for students and young scientists (oral presentation), Salt Lake City, UT, October 5-11, 2014.

Puhlick, J. J., A. R. Weiskittel, I. J. Fernandez, S. Fraver, L. S. Kenefic, and R. S. Seymour. 2014. How silvicultural treatments and site quality affect carbon storage in a mixed-species forest. SAF/CIF-IFC National Convention, technical session (oral presentation), Salt Lake City, UT, October 8-11, 2014.

Puhlick, J. J., A. R. Weiskittel, I. J. Fernandez, R. S. Seymour, S. Fraver, and L. S. Kenefic. 2013. How silvicultural treatments and site quality affect carbon storage on the Penobscot Experimental Forest. North American Forest Ecology Workshop (oral presentation), Bloomington, IN, June 16-20, 2013.

Puhlick, J. J., A. R. Weiskittel, L. S. Kenefic, I. J. Fernandez, S. Fraver, L. E. Rustad, R. K. Kolka, and J. C. Brissette. 2012. How silvicultural treatments affect carbon storage on the Penobscot Experimental Forest: A 60-year perspective. Eastern CANUSA Forest Science Conference (oral presentation), Durham, NH, November 1-3, 2012.

Puhlick, J. J., D. C. Laughlin, and M. M. Moore. 2011. The effects of climate on ponderosa pine regeneration on the Coconino National Forest, Arizona. SAF National Workshop on Climate and Forests (poster presentation), Flagstaff, AZ, May 16-18, 2011.

Puhlick, J. J., D. C. Laughlin, and M. M. Moore. 2010. A predictive regional-scale model for southwestern ponderosa pine regeneration densities. SAF National Convention, technical session (oral presentation), Albuquerque, NM, October 27-31, 2010.

Puhlick, J. J., and M. M. Moore. 2010. Optimal plot size for sampling tree regeneration in ponderosa pine forests on the Coconino National Forest. Southwestern SAF Spring Meeting (poster presentation), Flagstaff, AZ, April 9, 2010.

Other Presentations

Puhlick, J. J. Longleaf pine management in a changing climate. The Jones Center at Ichauway UF and UGA Maymester (oral presentation). Newton, GA, May 19, 2022.

Puhlick, J. J. The Jones Center at Ichauway Adaptive Silviculture for Climate Change Study. The Jones Center at Ichauway UF Silviculture (field tour). Newton, GA, April 4, 2022.

Puhlick, J. J. Assessing and monitoring the influence of forest management practices on soil productivity, carbon storage, and conservation on the Maine Adaptive Silviculture Network. Cooperative Forestry Research Unit Advisory Committee Meeting (final reporting, virtual presentation). Orono, ME, October 20, 2021.

Puhlick, J. J. Assessing and monitoring soil productivity, carbon storage, and conservation on the Maine Adaptive Silviculture Network. Cooperative Forestry Research Unit Advisory Committee Meeting (invited guest, oral presentation). Orono, ME, January 22, 2020.

Puhlick, J. J. Assessing and monitoring the influence of forest management practices on soil productivity, carbon storage, and conservation in the Acadian Forest Region. Substantiable Forestry Initiative Inc., Maine State Implementation Committee Meeting (invited guest, oral presentation). Augusta, ME, December 4, 2019.

Puhlick, J.J. Crop tree growth response and quality after silvicultural rehabilitation of cutover stands. Cooperative Forestry Research Unit Advisory Committee Meeting (invited guest, oral presentation). Orono, ME, January 24, 2018.

Kuehne C., Puhlick J. J., and Weiskittel, A. R. Forest composition, structure, and change on the Maine Ecological Reserves. Ecological Reserves Scientific Advisory Committee Meeting (oral presentation). Orono, ME, November 27, 2017.

Puhlick, J. J. Methods for quantifying forest carbon stocks. Advanced Forest Measurements guest lecture. University of Maine. Orono, ME, 2017.

Puhlick, J. J. Carbon storage research on the Penobscot Experimental Forest. USDA Forest Service, Northern Research Station, Team Leader Visit to the University of Maine (field tour presentation). Orono, ME, May 18, 2016.

Puhlick, J. J. Methods for determining understory plant and forest soil carbon estimates. University of Maine Forestry Seminar Series (oral presentation). Orono, ME, 2013.

Puhlick, J. J. Guidelines for effective data management in forestry and related fields. University of Maine Forestry Graduate Organization (oral presentation). Orono, ME, 2012.

Academic and Professional Activities

- Society of American Foresters Member. 1996 - present.
- Soil Science Society of America Member. 2020 - present.
- Faculty Mentor Award Nominee. 2019. University of Maine, Orono, Maine.
- Ralph H. Griffin Memorial Scholarship. 2015. Awarded to a meritorious graduate student in silviculture, forest management, or forest soils. University of Maine, School of Forest Resources.
- Journal Referee. 2012 - present: *Forest Ecology and Management, Canadian Journal of Forest Research, Forest Science, Ecological Applications, Fire Ecology, Climate Change, Forest Ecosystems, Forests, Forest Product Journal, Plant and Soil.*
- Graduate Student Government Grant Review Committee Member. 2013. University of Maine, Orono, Maine.
- Curriculum Committee Graduate Student Representative. 2009-2010. School of Forestry, Northern Arizona University, Flagstaff, Arizona.
- Attendee. Maine Association of Professional Soil Scientists Annual Workshop. September 5, 2018. Old Town, Maine. Including exercises at excavated soil pits for developing new policies related to soil classifications.
- Meetings for data acquisition. August 2017. Northern Hardwoods Research Institute, Edmundston, New Brunswick, and the University of New Brunswick, Fredericton.
- Attendee. Multi-aged silviculture of northern hardwood and mixedwood forests. August 24-26, 2016. Quebec. Sponsored by the New England Society of American Foresters.

Selected Responses to Course Evaluation Questions (scale 0-5, with 5 being very much)

Silviculture Lecture 2015 and 2017

How open was the instructor to other viewpoints? **4.71 / 4.80 / 4.00** (mean undergraduate response 2015 / graduate response 2015 / undergraduate response 2017 – only 2 graduate students in 2017)

Did the instructor show respect for the questions and opinions of the students? **4.76 / 5.00 / 4.55**

How open were examples used in class? **4.71 / 4.80 / 4.66**

Silviculture and Forest Ecology Laboratory 2015 and 2017

How prepared was the instructor for class? **4.76 / 4.67** (mean response)

How enthusiastic was the instructor about the subject? **4.62 / 4.38**

How concerned was the instructor for the quality of his or her teaching? **4.62 / 4.46**

How genuinely concerned was the instructor with student's progress? **4.62 / 4.54**

Were students required to apply concepts to demonstrate understanding? **4.70 / 4.48**

What was your overall rating of the laboratories? **4.77 / 4.72**

Comments from students (Silviculture Lecture 2017)

“Just wanted to say thanks for doing a good job teaching the course, I thought I took some huge steps forward in taking this class. This class really helped tie the whole program together and I learned a lot from you, you're a really knowledgeable guy. Will definitely remember and use a lot of the concepts we learned moving forward.”

“Clear and knowledgeable, a wonderful teacher and person.”

“The instructor's significant depth of knowledge was an asset in providing examples of concepts.”

“Thanks for giving me advice on getting my stuff together so I could pass the class. I'm really proud of myself!”

“I appreciated all the references and studies that were talked about in class, especially what the methodology was and the limitations.”

“Instructor was genuinely concerned with students and very approachable with questions both with the course and general forestry questions”