

# ANTHONY W. D'AMATO

Professor

Rubenstein School of Environment and Natural Resources

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## EMPHASIS AREA

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Silviculture and applied forest ecology research focuses on long-term forest stand dynamics, forest management and natural disturbance effects on ecosystem structure and function, modeling forest growth and development, and assessments of silvicultural strategies for conferring adaptation and mitigation potential within the context of global change.

## EDUCATION

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Ph.D. in Forest Resources (2007) University of Massachusetts, Amherst, MA

*Dissertation:* Structural attributes, disturbance dynamics, and ecosystem properties of old-growth forests in western Massachusetts. Advisors: Drs. David Orwig and Matthew Kelty

M.S. in Forest Science (2002), Oregon State University, Corvallis, OR

*Thesis:* Interference dynamics in mixed red alder/Douglas-fir forests. Advisor: Dr. Klaus Puettmann

B.S. in Forest Ecosystem Science (2000), University of Maine, Orono, ME

## PROFESSIONAL EXPERIENCE

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Professor—Rubenstein School of Environment and Natural Resources, University of Vermont (September 2018-present)

Director—Forestry Program, Rubenstein School of Environment and Natural Resources, University of Vermont (September 2016-present)

Director—Research Forests, Rubenstein School of Environment and Natural Resources, University of Vermont (September 2019-present)

Associate Professor—Rubenstein School of Environment and Natural Resources, University of Vermont (January 2015-present)

Adjunct Professor—Department of Forest Resources, University of Minnesota (2015-present)

Charles Bullard Fellow—Harvard Forest, Harvard University (2014)

Associate Professor—Department of Forest Resources, University of Minnesota (2012-2014)

Assistant Professor—Department of Forest Resources, University of Minnesota (2007-2012)

Postdoctoral Researcher—Dept. Natural Resources Conservation, Univ. of Massachusetts (2007)

Research Assistant—Harvard Forest, Harvard University (2002-2006)

Graduate Research Assistant—Dept. of Forest Science, Oregon State University (2001-2002)

## HONORS & AWARDS

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Mollie Beattie Young Forester Leadership Award, New England Society of American Foresters (2017)

Marcia Caldwell Award for Outstanding Contributions to the Students of the Rubenstein School of Natural Resources and Environment, University of Vermont (2017)  
 Minnesota Department of Natural Resources, Division of Forestry, Award of Excellence (2014)  
 Council of Graduate Students Outstanding Faculty Award, University of Minnesota (2014)  
 Charles Bullard Fellowship in Forest Research, Harvard Forest, Harvard University (2014)  
 Distinguished Teaching Award, University of Minnesota (2012)  
 Richard C. Newman Art of Teaching Award, University of Minnesota (2011)  
 Uncle of Paul Award for contributions to University of Minnesota Forestry Club (2008, 2011)  
 Outstanding Academic Achievement in Forestry, University of Massachusetts (2005, 2006)  
 Cort Dickson Memorial Forestry Scholarship, Harvard Forest, Harvard University (2005)  
 Award for Outstanding Service, University of Massachusetts (2004)

**PEER-REVIEWED PUBLICATIONS (\*student co-authorship) (177 Total)**

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1. Littlefield, C.E. and **A.W. D'Amato**. *Accepted*. Trade-offs and opportunities for forest carbon and wildlife using an adaptation lens. *Conservation Science and Practice*.
2. Grinde, A., M. Youngquist, R. Slesak, S. Kolbe, J. Bednar, B. Palik, and **A.W. D'Amato**. *In press*. Potential impacts of emerald ash borer and adaptation strategies on wildlife communities in black ash wetlands. *Ecological Applications*.
3. \*Andrews, C.A., J.R. Foster, E. Simons-Legaard, A. Weiskittel, and A.W. D'Amato. *In press*. Integrating historical observations alters projections of eastern North American spruce-fir habitat under climate change. *Ecosphere*.
4. Borgmann-Winter, B.W., R.B. Stephens, **A.W. D'Amato**, S.D. Frey, and R.J. Rowe. *In press*. Effects of timber harvest on epigeous fungal fruiting patterns and community structure in a northern hardwood ecosystem. *Canadian Journal of Forest Research*.
5. \*Clark, P. W., **A. W. D'Amato**, K. S. Evans, P. G. Schaberg, and C. W. Woodall. 2022. Ecological memory and regional context influence performance of adaptation plantings in northeastern US temperate forests. *Journal of Applied Ecology* 59:314-329.
6. \*Carter, D. R., R. A. Slesak, T. B. Harrington, and **A. W. D'Amato**. 2022. Soil texture and other site-level factors differentially affect growth of Scotch broom (*Cytisus scoparius*) and Douglas-fir (*Pseudotsuga menziesii*) seedlings in the western Pacific Northwest. *Canadian Journal of Forest Research* 52:1-13.
7. \*Clark, P. W., and **A. W. D'Amato**. 2021. Long-term development of transition hardwood and *Pinus strobus*-*Quercus* mixedwood forests with implications for future adaptation and mitigation potential. *Forest Ecology and Management* 501.
8. Stephens, R. B., S. D. Frey, **A. W. D'Amato**, and R. J. Rowe. 2021. Functional, temporal and spatial complementarity in mammal-fungal spore networks enhances mycorrhizal dispersal following forest harvesting. *Functional Ecology* 35:2072-2083.

9. Looney, C. E., **A. W. D'Amato**, and S. Jovan. 2021. Investigating linkages between the size-growth relationship and drought, nitrogen deposition, and structural complexity in western US Forests. *Forest Ecology and Management* 497.
10. Kern, C. C., L. S. Kenefic, C. Kuehne, A. R. Weiskittel, S. J. Kaschmitter, **A. W. D'Amato**, D. C. Dey, J. M. Kabrick, B. J. Palik, and T. M. Schuler. 2021. Relative influence of stand and site factors on aboveground live-tree carbon sequestration and mortality in managed and unmanaged forests. *Forest Ecology and Management* 493.
11. \*Rogers, N. S., **A. W. D'Amato**, and W. B. Leak. 2021. Long-term evolution of composition and structure after repeated group selection over eight decades. *Canadian Journal of Forest Research* 51:1080-1091.
12. Kenefic, L. S., J. M. Kabrick, B. O. Knapp, P. Raymond, K. L. Clark, **A. W. D'Amato**, C. C. Kern, L. A. Vickers, D. C. Dey, and N. S. Rogers. 2021. Mixedwood silviculture in North America: the science and art of managing for complex, multi-species temperate forests. *Canadian Journal of Forest Research* 51:921-934.
13. **D'Amato, A. W.**, and D. C. Dey. 2021. Introduction: Ecology and silviculture of temperate mixedwood forests. *Canadian Journal of Forest Research* 51:v-vi.
14. Vickers, L. A., B. O. Knapp, J. M. Kabrick, L. S. Kenefic, **A. W. D'Amato**, C. C. Kern, D. A. MacLean, P. Raymond, K. L. Clark, D. C. Dey, and N. S. Rogers. 2021. Contemporary status, distribution, and trends of mixedwoods in the northern United States. *Canadian Journal of Forest Research* 51:881-896.
15. Lott, C. A., M. E. Akresh, B. E. Costanzo, **A. W. D'Amato**, S. Duan, C. J. Fiss, J. S. Fraser, H. S. He, D. I. King, D. J. McNeil, S. H. Stoleson, M. Yamasaki, and J. L. Larkin. 2021. Do Review Papers on Bird–Vegetation Relationships Provide Actionable Information to Forest Managers in the Eastern United States? *Forests* 12:990.
16. Akresh, M. E., D. I. King, C. A. Lott, J. L. Larkin, and **A. W. D'Amato**. 2021. A meta-analysis of the effects of tree retention on shrubland birds. *Forest Ecology and Management* 483:118730.
17. Palik, B. J., **A. W. D'Amato**, R. A. Slesak, D. Kastendick, C. Looney, and J. Kragthorpe. 2021. Eighth-year survival and growth of planted replacement tree species in black ash (*Fraxinus nigra*) wetlands threatened by emerald ash borer in Minnesota, USA. *Forest Ecology and Management* 484:118958.
18. Palik, B. J., **A. W. D'Amato**, and R. A. Slesak. 2021. Wide-spread vulnerability of black ash (*Fraxinus nigra* Marsh.) wetlands in Minnesota USA to loss of tree dominance from invasive emerald ash borer. *Forestry* 94:455-463.
19. Kern, C. C., L. S. Kenefic, C. Kuehne, A. R. Weiskittel, S. J. Kaschmitter, **A. W. D'Amato**, D. C. Dey, J. M. Kabrick, B. J. Palik, and T. M. Schuler. 2021. Relative

- influence of stand and site factors on aboveground live-tree carbon sequestration and mortality in managed and unmanaged forests. *Forest Ecology and Management* 493:119266.
20. Cianciolo, T. R., J. S. Diamond, D. L. McLaughlin, R. A. Slesak, **A. W. D'Amato**, and B. J. Palik. 2021. Hydrologic variability in black ash wetlands: Implications for vulnerability to emerald ash borer. *Hydrological Processes* 35:e14014.
  21. Thiffault, N., P. Raymond, J. M. Lussier, I. Aubin, S. Royer-Tardif, **A. W. D'Amato**, F. Doyon, L. Benoit, M. Perron, J. Bousquet, N. Isabel, S. Carles, P. Lupien, and A. Malenfant. 2021. Adaptive Silviculture for Climate Change: From Concepts to Reality Report on a symposium held at Carrefour Forêts 2019. *The Forestry Chronicle* 97:13-27.
  22. \*Nevins, M. T., **A. W. D'Amato**, and J. R. Foster. 2021. Future forest composition under a changing climate and adaptive forest management in southeastern Vermont, USA. *Forest Ecology and Management* 479:118527.
  23. **D'Amato, A. W.**, and B. J. Palik. 2021. Building on the last “new” thing: exploring the compatibility of ecological and adaptation silviculture. *Canadian Journal of Forest Research* 51:172-180.
  24. Gleason, K.E., Bradford, J.B., **D'Amato, A.W.**, Fraver, S., Palik, B.J., and Battaglia, M.A. 2021. Forest density intensifies the importance of snowpack to growth in water-limited pine forests. *Ecological Applications* 31(1): e02211.
  25. Youngquist, M.B., Wiley, C., Eggert, S.L., **D'Amato, A.W.**, Palik, B.J., Slesak, R.A., 2020. Foundation Species Loss Affects Leaf Breakdown and Aquatic Invertebrate Resource Use in Black Ash Wetlands. *Wetlands* 40, 839-852.
  26. Woodall, C.W., Evans, D.M., Fraver, S., Green, M.B., Lutz, D.A., and **D'Amato, A.W.** 2020. Real-time monitoring of dead wood moisture in forests: Lessons learned from an intensive case study. *Canadian Journal of Forest Research*. doi: 10.1139/cjfr-2020-0110.
  27. Andrews, C. M., **A. W. D'Amato**, S. Fraver, B. Palik, M. A. Battaglia, and J. B. Bradford. 2020. Low stand density moderates growth declines during hot droughts in semi-arid forests. *Journal of Applied Ecology* 57:1089-1102.
  28. Kurth, V. J., **A. W. D'Amato**, J. B. Bradford, B. J. Palik, and C. E. Looney. 2020. Assessing the ecological impacts of biomass harvesting along a disturbance severity gradient. *Ecological Applications* 30:e02042.
  29. \*Loeb, C. D., and **A. W. D'Amato**. 2020. Large landscape conservation in a mixed ownership region: Opportunities and barriers for putting the pieces together. *Biological Conservation* 243:108462.

30. Curzon, M. T., C. C. Kern, S. C. Baker, B. J. Palik, and **A. W. D'Amato**. 2020. Retention forestry influences understory diversity and functional identity. *Ecological Applications* 30:e02097.
31. Grinde, A. R., R. A. Slesak, **A. W. D'Amato**, and B. P. Palik. 2020. Effects of tree retention and woody biomass removal on bird and small mammal communities. *Forest Ecology and Management* 465:118090.
32. Donoso, P. J., K. J. Puettmann, **A. W. D'Amato**, D. B. Ponce, C. Salas-Eljatib, and P. F. Ojeda. 2020. Short-term effects of variable-density thinning on regeneration in hardwood-dominated temperate rainforests. *Forest Ecology and Management* 464:9.
33. Windmuller-Campione, M. A., M. B. Russell, E. Sagor, **A. W. D'Amato**, A. R. Ek, K. J. Puettmann, and M. G. Rodman. 2020. The decline of the clearcut: 26 Years of change in silvicultural practices and implications in Minnesota. *Journal of Forestry* 118:244-259.
34. \*Toczydlowski, A. J. Z., R. A. Slesak, R. K. Kolka, R. T. Venterea, **A. W. D'Amato**, and B. J. Palik. 2020. Effect of simulated emerald ash borer infestation on nitrogen cycling in black ash (*Fraxinus nigra*) wetlands in northern Minnesota, USA. *Forest Ecology and Management* 458:117769.
35. Meunier, J., K. Nixon, T. A. Gorby, R. L. Swaty, K. J. Martin, and **A. W. D'Amato**. 2020. Understanding uncertainty in broad-scale mapping of historical vegetation in the Great Lakes Region. *Natural Areas Journal* 40:72-85, 14.
36. Ma, W., G. M. Domke, C. W. Woodall, and **A. W. D'Amato**. 2020. Contemporary forest carbon dynamics in the northern U.S. associated with land cover changes. *Ecological Indicators* 110:105901.
37. Vickers, L. A., W. H. McWilliams, B. O. Knapp, **A. W. D'Amato**, D. C. Dey, Y. L. Dickinson, J. M. Kabrick, L. S. Kenefic, C. C. Kern, D. R. Larsen, A. A. Royo, M. R. Saunders, S. R. Shifley, and J. A. Westfall. 2019. Are current seedling demographics poised to regenerate northern US forests? *Journal of Forestry* 117:592-612.
38. \*Jevon, F. V., **A. W. D'Amato**, C. W. Woodall, K. Evans, M. P. Ayres, and J. H. Matthes. 2019. Tree basal area and conifer abundance predict soil carbon stocks and concentrations in an actively managed forest of northern New Hampshire, USA. *Forest Ecology and Management* 451:117534.
39. \*Carter, D.R., Slesak, R.A., Harrington, T.B., **D'Amato, A.W.**, 2019. Comparative effects of soil resource availability on physiology and growth of Scotch broom (*Cytisus scoparius*) and Douglas-fir (*Pseudotsuga menziesii*) seedlings. *Forest Ecology and Management* 453.

40. \*Dymond, S. F., **A. W. D'Amato**, R. K. Kolka, P. V. Bolstad, S. D. Sebestyen, K. Gill, and M. T. Curzon. 2019. Climatic controls on peatland black spruce growth in relation to water table variation and precipitation. *Ecohydrology* 12:e2137.
41. \*Lewandowski, T. E., J. A. Forrester, D. J. Mladenoff, E. Marin-Spiotta, **A. W. D'Amato**, B. J. Palik, and R. K. Kolka. 2019. Long term effects of intensive biomass harvesting and compaction on the forest soil ecosystem. *Soil Biology and Biochemistry* 137:107572.
42. \*Byerly, H., **A. W. D'Amato**, S. Hagenbuch, and B. Fisher. 2019. Social influence and forest habitat conservation: Experimental evidence from Vermont's maple producers. *Conservation Science and Practice* 1:e98.
43. Pregitzer, C. C., M. S. Ashton, S. Charlop-Powers, **A. W. D'Amato**, B. R. Frey, B. Gunther, R. A. Hallett, K. S. Pregitzer, C. W. Woodall, and M. A. Bradford. 2019. Defining and assessing urban forests to inform management and policy. *Environmental Research Letters* 14:085002.
44. Engelstad, P. S., M. J. Falkowski, **A. W. D'Amato**, R. A. Slesak, B. J. Palik, G. M. Domke, and M. B. Russell. 2019. Mapping black ash dominated stands using geospatial and forest inventory data in northern Minnesota, USA. *Canadian Journal of Forest Research* 49:892-902.
45. Ma, W., G. M. Domke, C. W. Woodall, and **A. W. D'Amato**. 2019. Land Use Changes, Disturbances, and Their Interactions on Future Forest Aboveground Biomass Dynamics in the Northern US. *Forests* 10:606.
46. \*Santoro, J. A., and **A. W. D'Amato**. 2019. Structural, compositional, and functional responses to tornado and salvage logging disturbance in southern New England hemlock-hardwood forests. *Forest Ecology and Management* 444:138-150.
47. Palik, B. J., and **A. W. D'Amato**. 2019. Variable retention harvesting in Great Lakes mixed-pine forests: emulating a natural model in managed ecosystems. *Ecological Processes* 8:16.
48. \*Reuling, L. F., **A. W. D'Amato**, B. J. Palik, K. J. Martin, and D. S. A. Fassnacht. 2019. Initial tree regeneration response to natural-disturbance-based silviculture in second-growth northern hardwood forests. *Canadian Journal of Forest Research* 49:628-639.
49. \*Murray, H. F., and **A. W. D'Amato**. 2019. Stand dynamics and structure of two primary Champlain Valley clayplain forests, Vermont. *Northeastern Naturalist* 26:95-115.
50. \*Bolton, N. W., and **A. W. D'Amato**. 2019. Herbaceous vegetation responses to gap size within natural disturbance-based silvicultural systems in northeastern Minnesota, USA. *Forests* 10:111.

51. \*Carter, D. R., R. A. Slesak, T. B. Harrington, D. H. Peter, and **A. W. D'Amato**. 2019. Scotch broom (*Cytisus scoparius*) modifies microenvironment to promote nonnative plant communities. *Biological Invasions* 21:1055-1073.
52. \*Heuss, M., **A. W. D'Amato**, and K. J. Dodds. 2019. Northward expansion of southern pine beetle generates significant alterations to forest structure and composition of globally rare *Pinus rigida* forests. *Forest Ecology and Management* 434:119-130.
53. \*Lewandowski, T. E., J. A. Forrester, D. J. Mladenoff, **A. W. D'Amato**, D. S. A. Fassnacht, E. Padley, and K. J. Martin. 2019. Do biological legacies moderate the effects of forest harvesting on soil microbial community composition and soil respiration. *Forest Ecology and Management* 432:298-308.
54. Vickers, L. A., W. H. McWilliams, B. O. Knapp, **A. W. D'Amato**, M. R. Saunders, S. R. Shifley, J. M. Kabrick, D. C. Dey, D. R. Larsen, and J. A. Westfall. 2019. Using a tree seedling mortality budget as an indicator of landscape-scale forest regeneration security. *Ecological Indicators* 96:718-727.
55. **D'Amato, A. W.**, B. J. Palik, R. A. Slesak, G. Edge, C. Matula, and D. R. Bronson. 2018. Evaluating adaptive management options for black ash forests in the face of emerald ash borer invasion. *Forests* 9:348-365.
56. Sommerfeld, A., C. Senf, B. Buma, **A. W. D'Amato**, T. Després, I. Díaz-Hormazábal, S. Fraver, L. E. Frelich, Á. G. Gutiérrez, S. J. Hart, B. J. Harvey, H. S. He, T. Hlásny, A. Holz, T. Kitzberger, D. Kulakowski, D. Lindenmayer, A. S. Mori, J. Müller, J. Paritsis, G. L. W. Perry, S. L. Stephens, M. Svoboda, M. G. Turner, T. T. Veblen, and R. Seidl. 2018. Patterns and drivers of recent disturbances across the temperate forest biome. *Nature Communications* 9:4355.
57. \*Diamond, J. S., D. L. McLaughlin, R. A. Slesak, **A. W. D'Amato**, and B. J. Palik. 2018. Forested versus herbaceous wetlands: Can management mitigate ecohydrologic regime shifts from invasive emerald ash borer? *Journal of Environmental Management* 222:436-446.
58. Ma, W., G. M. Domke, **A. W. D'Amato**, C. W. Woodall, B. F. Walters, and R. K. Deo. 2018. Using matrix models to estimate aboveground forest biomass dynamics in the eastern USA through various combinations of LiDAR, Landsat, and forest inventory data. *Environmental Research Letters* 13:125004.
59. Fraver, S., M. J. Ducey, C. W. Woodall, **A. W. D'Amato**, A. M. Milo, and B. J. Palik. 2018. Influence of transect length and downed woody debris abundance on precision of the line-intersect sampling method. *Forest Ecosystems* 5:39.
60. \*North, E. A., **A. W. D'Amato**, and M. B. Russell. 2018. Performance metrics for street and park trees in urban forests. *Journal of Forestry* 116:547-554.

61. \*Looney, C. E., **A. W. D'Amato**, S. Fraver, B. J. Palik, and L. E. Frelich. 2018. Interspecific competition limits the realized niche of *Fraxinus nigra* along a waterlogging gradient. *Canadian Journal of Forest Research* 48:1292-1301.
62. Woodall, C. W., J. A. Westfall, **A. W. D'Amato**, J. R. Foster, and B. F. Walters. 2018. Decadal changes in tree range stability across forests of the eastern U.S. *Forest Ecology and Management* 429:503-510.
63. Ma, W., C. W. Woodall, G. M. Domke, **A. W. D'Amato**, and B. F. Walters. 2018. Stand age versus tree diameter as a driver of forest carbon inventory simulations in the northeastern U.S. *Canadian Journal of Forest Research* 48:1135-1147.
64. \*Sass, E. M., **A. W. D'Amato**, D. R. Foster, A. Barker Plotkin, S. Fraver, P. K. Schoonmaker, and D. A. Orwig. 2018. Long-term influence of disturbance-generated microsites on forest structural and compositional development. *Canadian Journal of Forest Research* 48:958-965.
65. Kolka, R. K., **A. W. D'Amato**, J. W. Wagenbrenner, R. A. Slesak, T. G. Pypker, M. B. Youngquist, A. R. Grinde, and B. J. Palik. 2018. Review of ecosystem level impacts of emerald ash borer on black ash wetlands: what does the future hold? *Forests* 9:179-194.
66. \*Sass, E. M., **A. W. D'Amato**, and D. R. Foster. 2018. Lasting legacies of historical clearcutting, wind, and salvage logging on old-growth *Tsuga canadensis*-*Pinus strobus* forests. *Forest Ecology and Management* 419-420:31-41.
67. Dodds, K. J., C. F. Aoki, A. Arango-Velez, J. Cancelliere, **A. W. D'Amato**, M. F. DiGirolomo, and R. J. Rabaglia. 2018. Expansion of Southern Pine Beetle into Northeastern Forests: Management and Impact of a Primary Bark Beetle in a New Region. *Journal of Forestry* 116:178-191.
68. Looney, C. E., **A. W. D'Amato**, B. J. Palik, S. Fraver, and D. N. Kastendick. 2018. Size-growth relationship, tree spatial patterns, and tree-tree competition influence tree growth and stand complexity in a 160-year red pine chronosequence. *Forest Ecology and Management* 424:85-94.
69. Fahey, R. T., B. C. Alveshire, J. I. Burton, **A. W. D'Amato**, Y. L. Dickinson, W. S. Keeton, C. C. Kern, A. J. Larson, B. J. Palik, K. J. Puettmann, M. R. Saunders, C. R. Webster, J. W. Atkins, C. M. Gough, and B. S. Hardiman. 2018. Shifting conceptions of complexity in forest management and silviculture. *Forest Ecology and Management* 421:59-71.
70. \*Andrews, C., A. Weiskittel, **A. W. D'Amato**, and E. Simons-Legaard. 2018. Variation in the maximum stand density index and its linkage to climate in mixed species forests of the North American Acadian Region. *Forest Ecology and Management* 417:90-102.

71. **D'Amato, A. W.**, E. J. Jokela, K. L. O'Hara, and J. N. Long. 2018. Silviculture in the United States: an amazing period of change over the past 30 years. *Journal of Forestry* 116:55-67.
72. Ontl, T. A., C. Swanston, L. A. Brandt, P. R. Butler, **A. W. D'Amato**, S. D. Handler, M. K. Janowiak, and P. D. Shannon. 2018. Adaptation pathways: ecoregion and land ownership influences on climate adaptation decision-making in forest management. *Climatic Change* 146:75-88.
73. \*Scherer, S. S., C. C. Kern, **A. W. D'Amato**, B. J. Palik, and M. R. Russell. 2018. Long-term pine regeneration, shrub layer dynamics, and understory community composition responses to repeated prescribed fire in *Pinus resinosa* forests. *Canadian Journal of Forest Research* 48:117-129.
74. Fraver, S., M. Tajvidi, **A. W. D'Amato**, D. L. Lindner, J. A. Forrester, and A. M. Milo. 2018. Woody material structural degradation through decomposition on the forest floor. *Canadian Journal of Forest Research* 48:111-115.
75. Lesk, C., E. Coffel, **A.W. D'Amato**, K.J. Dodds, R.A. Horton. 2017. Threats to North American forests from southern pine beetle with warming winters. *Nature Climate Change* 7: 713-717.
76. Bottero, A., **A.W. D'Amato**, B.J. Palik, J.B. Bradford, S. Fraver, M.A. Battaglia, and L.A. Asherin. 2017. Density-dependent vulnerability of forest ecosystems to drought. *Journal of Applied Ecology* 54:1605-1614.
77. Youngquist, M.B., S.L. Eggert, **A.W. D'Amato**, B.J. Palik, and R.A. Slesak. 2017. Potential effects of foundation species loss on wetland communities: a case study of black ash wetlands threatened by emerald ash borer. *Wetlands* 37: 787-799.
78. **D'Amato, A.W.**, D.A. Orwig, D.R. Foster, A. Barker Plotkin, P.K. Schoonmaker, and M.R. Wagner. 2017. Long-term structural and biomass dynamics of virgin *Tsuga canadensis*–*Pinus strobus* forests after hurricane disturbance. *Ecology* 98:721-733.
79. **D'Amato, A. W.**, B. J. Palik, J. F. Franklin, and D. R. Foster. 2017. Exploring the origins of ecological forestry in North America. *Journal of Forestry* 115:126-127.
80. \*Curzon, M.T., **A.W. D'Amato**, and B.J. Palik. 2017. Early regeneration response to aggregated overstory and harvest residue retention in *Populus tremuloides* (Michx.)-dominated forests. *New Forests* 48:719-734.
81. Gleason, K.E., J.B. Bradford, A. Bottero, **A.W. D'Amato**, S. Fraver, B.J. Palik, M.A. Battaglia, L. Iverson, L. Kenefic, and C.C. Kern. 2017. Competition amplifies drought stress in forests across broad climatic and compositional gradients. *Ecosphere* 8:e01849-n/a.

82. Curzon, M.T., **A.W. D'Amato**, S. Fraver, B.J. Palik, A. Bottero, J.R. Foster, and K.E. Gleason. 2017. Harvesting influences functional identity and diversity over time in forests of the northeastern U.S.A. *Forest Ecology and Management* 400:93-99.
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## PROCEEDINGS & OTHER ARTICLES

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- Domke, G.M., **A.W. D'Amato**, A.J. David, and A.R. Ek. 2008. Hybrid aspen growth response to shearing in Minnesota: implications for biomass production and carbon sequestration. In Zalesny Jr., R.S., R. Mitchell, and J. Richardson (eds.). Proceedings of the Short Rotation Crops International Conference. USDA, Forest Service. Gen. Tech. Rep. NRS-P-31.
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Kelty, M.J., **A.W. D'Amato**, and P.K. Barten. 2008. Silvicultural and ecological considerations of forest biomass harvesting in Massachusetts. Massachusetts Sustainable Forest Bioenergy Initiative, Technical Report. 65 pp.

Pederson, N., **A.W. D'Amato**, and D.A. Orwig. 2007. Central hardwood natural history from dendrochronology: maximum ages from rarely studied species. *In* Clatterbuck, W.K. and D.S. Buckley (eds.). Proceedings of the 15<sup>th</sup> Central Hardwood Forest Conference. USDA, Forest Service. Gen. Tech. Rep. SRS-101.

Orwig, D.A. and **A.W. D'Amato**. 2007. Southern New England old-growth forests: how much is left and can they inform management decisions? *New England Society of American Foresters News Quarterly* Volume 68 (4): 10-11.

Kelty, M.J., and **A.W. D'Amato**. 2006. An historical perspective on diameter-limit cutting in the Northeast. *In* Kenefic, L.S. and R.D. Nyland (eds.). Proceedings of the Conference on Diameter-limit Cutting in Northeastern Forests. USDA Forest Service. Gen. Tech. Rep. NE-342.

Foster, D.R., D.B. Kittredge, B. Donahue, G. Motzkin, D. Orwig, A. Ellison, B. Hall, B. Colburn, and **A. W. D'Amato**. 2005. Wildlands and woodlands: a vision for the forests of Massachusetts. *Harvard Forest Paper* no. 26. 24 pp.

## **BOOKS AND BOOK CHAPTERS**

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D'Amato, A.W., B.J. Palik, P.A. Raymond, K. J. Puettmann. *In press*. Building a framework for adaptive silviculture for global change. *In*: Montoro Girona, M., H. Morina, S. Gauthier, and Y. Bergeron (eds.). *Boreal Forests in the Face of Climate Change - Sustainable Management*. Springer Nature.

Palik, B. J., **A. W. D'Amato**, J. F. Franklin, and K. N. Johnson. 2020. *Ecological silviculture: foundations and applications*. Waveland Press, Long Grove, Illinois. 343, pp.

**D'Amato, A.W.**, P. Raymond, and S. Fraver. 2018. Old-Growth Disturbance Dynamics and Associated Ecological Silviculture for Forests in Northeastern North America. *In*: Barton, A.M. and W.S. Keeton (eds.). *Ecology and Recovery of Eastern Old-Growth Forests*. Island Press, Washington, D.C. 360pp.

Fraver, S., T. Aakala, and **A.W. D'Amato**. 2017. Dendroecological applications to coarse woody debris dynamics. *In*: Amoroso, M.M, L.D. Daniels, P.J. Baker, and J.J. Camarero (eds.). *Dendroecology: tree-ring analyses applied to ecological studies*. Springer International Publishing, New York. 440 pp.

**D'Amato, A.W.**, B. Baiser, A.M. Ellison, D.R. Foster (ed.), D.A. Orwig, W. Oswald, A. Barker Plotkin, J. Thompson, S. Long. 2014. *Hemlock: a forest giant on the edge*. Yale University Press, 336 pp.

Goerndt, M.E., **A.W. D'Amato**, and J. Kabrick. 2014. Chapter 4: Wood energy and forest management. In: Aguilar, F.X. (eds). *Wood Energy in Developed Economies*. London, UK: Earthscan Publishing. 338 pp.

## **OUTREACH PUBLICATIONS**

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**D'Amato, A.W.**, A. Mahaffey, L. Pepper, A. Kosiba, N. Patch, and P. van Loon. 2020. Ten recommendations for managing ash in the face of emerald ash borer and climate change. *Forest Stewards Guild*, 3 pp.

Catanzaro, P.F., and **A.W. D'Amato**. 2019. Forest carbon: an essential natural solution for climate change. *University of Massachusetts, Cooperative Extension Landowner Outreach Pamphlet*. 28 pp.

Catanzaro, P.F., **A.W. D'Amato**, and E.J. Silver Huff. 2016. Increasing forest resiliency for an uncertain future. *University of Massachusetts, Cooperative Extension Landowner Outreach Pamphlet*. 32 pp.

**D'Amato, A.W.**, and P. Catanzaro. 2009. A forest manager's guide to restoring late-successional forest structure. *University of Massachusetts, Cooperative Extension Landowner Outreach Pamphlet*. 8 pp.

Catanzaro, P.F., D.T. Damery, **A.W. D'Amato**, and K. Ferrare. 2007. The economic viability of ownerships in the Deerfield River Watershed. *Kohlberg Foundation and New England Forestry Foundation Pamphlet*, 35 pp.

**D'Amato, A.W.**, and P.F. Catanzaro. 2007. Restoring old-growth characteristics. *University of Massachusetts, Cooperative Extension Landowner Outreach Pamphlet*, 18 pp.

Catanzaro, P.F., and **A.W. D'Amato**. 2006. High-grade harvesting: know the impacts and know your options. *University of Massachusetts, Cooperative Extension Landowner Outreach Pamphlet*, 16 pp.

## **GRANTS (Total Grants = \$15,075,335)**

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Development of a pitch pine regeneration guide to aid restoration efforts post southern pine beetle invasion. *USDA Forest Service Health Monitoring Program* (\$91,080). PIs: **A.W. D'Amato** and K. Dodds. 5/2021-5/2023.

Adaptive forest restoration strategies in the face of climate change. *National Council for Air and Stream Improvement* (\$60,000). PI: **A.W. D'Amato**. 4/2021-3/2023.

Developing forest adaptation options for the Northern Forest. *USDA Forest Service Northern Research Station* (\$30,000). PI: **A.W. D'Amato**. 4/2021-3/2023.

Adaptive forest management options for white ash forests threatened by emerald ash borer. *USDA AFRI* (Grant total: \$350,000; Lead PI on UVM portion: \$83,930). PIs: D. Orwig, M. Lindsay, P. Catanzaro, **A.W. D'Amato**, J. Thompson, M. Maclean. 2/2021-1/2024.

Sustaining forests and communities: forest science and local wood systems. *Northern Border Regional Commission* (Grant total: \$999,000; Lead PI on UVM portion: \$57,000). PIs: M. Willard, **A.W. D'Amato**, J. Frohm, A. Fast. 5/2020-10/2023.

Exploring the potential for adaptation plantings to restore and sustain forest habitats across the upper Lake States. *U.S. DOI USGS Climate Science Research Center* (\$220,891). PIs: **A.W. D'Amato** and B. Palik. 10/2020-9/2022.

Assessing Nutrient Sustainability in Forest Management: Novel Applications of Metal Isotopes. *USDA AFRI* (Grant total: \$470,835; Lead PI on UVM portion: \$249,000). PIs: J. Richardson, **A.W. D'Amato**, N. Pedrial. 9/2020-8/2024.

Forest inventory data integration, access, and analysis: A sustainable data infrastructure for forest managers and researchers in the northeastern US. *USDA AFRI BNRE* (\$200,000). PIs: J. Pontius, J. Duncan, A. Kosiba, **A.W. D'Amato**, A. Weisittel. 8/2019-10/2021.

Proposal to Continue Hosting the Northeast Climate Adaptation Science Center. *U.S. DOI USGS Climate Science Research Center* (Grant total: \$4,500,000; Lead PI on UVM portion: \$459,299). PIs: R. Palmer, B. Bradley, J. Woodruff, **A.W. D'Amato**, L. Deegan, R. Horton, T. Morelli, P. McIntire, and K. Nislow. 9/2019-10/2024.

RII Track 2 FEC: Leveraging Intelligent Informatics and Smart Data for Improved Understanding of Northern Forest Ecosystem Resiliency (INSPIRES). *National Science Foundation* (Grant total: \$6,000,000; Lead PI on UVM portion: \$1,938,283). PIs: A. Weiskittel, **A.W. D'Amato**, S. Ollinger. 10/2019-9/2023.

Adaptation and restoration of Northern Forests: collaborative management of forests at risk across the urban to rural gradient. *USDA NIFA McIntire-Stennis Cooperative Forestry Research Program* (\$1,383,687). PIs: **A.W. D'Amato**, J. Pontius, R. Schattman, P. Schaberg, G. Hawley. 10/2019-9/2023.

AfterMATH: A decision Support Tool for Integrating Silviculture, Forest Resilience and Management of Emerald Ash Borer. *USDA Forest Service Health Monitoring Program* (\$80,884). PIs: **A.W. D'Amato** and N. Siegert. 1/2019-9/2020.

Developing a Stand Hazard Rating System to Guide Southern Pine Beetle Management in Northeastern Forests. *USDA Forest Service Health Monitoring Program* (\$63,406). PIs: **A.W. D'Amato** and K.J. Dodds. 1/2019-9/2020.

Future forest habitat conditions in the Adirondack Region, NY. *USGS National Climate Change and Wildlife Science Center* (\$76,044). PIs: **A.W. D'Amato** and J.R. Foster. 9/2017-9/2018.

Forests after Asian Longhorned Beetle Eradication: Current and Predicted Composition and Structure with Varying Climate Scenarios. *USDA Forest Service Health Monitoring Program* (\$60,000). PIs: **A.W. D'Amato** and K.J. Dodds. 9/2017-9/2019.

Long-term research data analysis and technology transfer from USDA Forest Service Experimental Forests. *USDA Forest Service Northern Research Station*. (\$38,278). PIs: **A.W. D'Amato** and L. Kenefic. 6/2017-6/2022.

Adaptive Silviculture for Climate Change in New England. *USDA Forest Service Northern Research Station*. (\$35,000). PIs: **A.W. D'Amato** and C. Woodall. 6/2016-6/2021.

Sustaining northeastern forests in the face of climate change. *USDA Forest Service Northern Research Station*. (\$66,000). PIs: **A.W. D'Amato** and K. Nislow. 6/2016-6/2021.

Impacts of Stand-Replacing Wind and Salvage Logging on the Adaptive Capacity of Hemlock-Hardwood Forests in Southern New England. (\$28,448). *USDA Forest Service Northern Research Station/Northern Institute of Applied Climate Science*. PIs: **A.W. D'Amato** and M. Janowiak. 7/2016-7/2018.

Adaptive Management Plan for Climate Change for the Marsh-Billings-Rockefeller NHP. *Woodstock Foundation*. (\$56,284). PIs: **A.W. D'Amato** and K. Jones. 7/2016-7/2018

Evaluating the effects of southern pine beetle in a newly invaded region: stand level impacts, fire hazard, and future forest conditions. *USDA Forest Service Health Monitoring Program* (\$48,725). PIs: **A.W. D'Amato** and K.J. Dodds. 1/2015-1/2017.

Identifying Factors Affecting Regional Patterns of Sugar Maple Regeneration in the Northern Forest. *Northeastern States Research Cooperative* (\$9,452). PI: **A.W. D'Amato**. 9/2015-5/2016.

Using Multiple Long-term Data Sets to Evaluate Dynamics and Characteristics of Managed Uneven-aged Northern Forest Stands. *Northeastern States Research Cooperative* (\$111,513). PIs: R.J. Nyland, L.S. Kenefic, **A.W. D'Amato**, C.C. Kern, D.H. Kiernan, E. Bevilacqua, B.J. Palik. 9/2015-8/2017.

Sustainable Northern Conifer Forest Management: New Findings and Outreach Tools. *Northeastern States Research Cooperative* (\$93,155). PIs: L.S. Kenefic, M. Crandall, **A.W. D'Amato**, A. Weiskittel. 9/2015-8/2017.

Emerald ash borer ecological and hydrological impacts-Phase II. *Legislative Citizen's Commission on Minnesota's Resources* (\$400,000). PIs: **A.W. D'Amato**, B. Palik, and R. Slesak. 6/2015-6/2020.

Refining Stand Dynamics within the US' Forest Carbon Accounting Framework. *USFS Northern Research Station Forest Inventory and Analysis Program* (\$56,660). PIs: **A.W. D'Amato** and C. Woodall. 6/2015-8/2017.

Quantifying and mitigating the impacts of emerald ash borer on black ash forests in the upper Great Lakes region. *Department of Interior: Upper Midwest and Great Lakes Landscape Conservation Cooperative* (\$155,641). PIs: **A.W. D'Amato**, B. Palik, K. Martin. 9/2014-9/2016.

Management tools for reducing the impacts of emerald ash borer on black ash forests. *USDA Forest Service Forest Health Monitoring Special Technology and Development Program* (\$74,000). PIs: **A.W. D'Amato** and B. Palik. 9/2014-9/2017.

Scotch broom alters Douglas-fir community structure and soil ecology: prevention and mitigation through alternative management practices. *USDA National Institute of Food and Agriculture, Agriculture and Food Research Initiative* (\$450,000). PIs: T. Harrington, R.A. Slesak, **A.W. D'Amato**. 1/2014-1/2018.

Developing historically-consistent and broadly-applicable monitoring, reporting, and verification system for quantifying forest change. *USFS Northern Research Station/NASA* (\$48,885). PIs: C. Woodall, G. Domke, and **A.W. D'Amato**. 2/2014-2/2015.

Modeling effects of climate change on spruce-fir forest ecosystems and associated priority bird populations. *US Geological Survey* (\$208,000). PIs: **A.W. D'Amato**, D. King, A. Weiskittel, B. Palik, D. Flaspohler, C. Rimmer, W. DeLuca, S. Auer. 9/2013-9/2015.

Future distribution and productivity of spruce-fir forests under climate change: A comparison of the Northeast and the Lake States. *Northeastern States Research Cooperative* (\$99,502). PIs: E. Simons-Legaard, A. Weiskittel, **A.W. D'Amato**, B.R. Sturtevant, S. Fraver, and K. Legaard. 4/2013-4/2015.

Revising the LANDFIRE vegetation classification system for the Great Lakes region. PI: **A.W. D'Amato**. *Wisconsin Department of Natural Resources* (\$147,000). 1/2013-1/2015.

The effects of variable retention harvests on ground-layer plant diversity of red pine forests in northern Minnesota, USA. PI: C. Kern, B. Palik, **A.W. D'Amato**. *USDA Forest Service Northern Research Station* (\$40,000). 6/2012-6/2017.

Enhancing timber sale program environmental and economic sustainability. PIs: C. Blinn, M. Kilgore, **A.W. D'Amato**, and M. Davenport. *Legislative Citizen's Commission on Minnesota's Resources* (\$336,000). 6/2013-6/2016.

Northeast Climate Science Center. PIs: R. Palmer, M. Cook, **A.W. D'Amato**, L. Deegan, L. Gilbert, R. Horton, and F. Thompson. *U.S. Department of Interior USGS Climate Science Research Center* (Grant total: \$7,500,000; Lead PI on UMN portion: \$622,823). 2/2012-2/2017.

Assessing the response of tree regeneration and understory vegetation to managed old-growth silviculture strategies in second-growth hardwoods. PI: **A.W. D'Amato**. *Wisconsin Department of Natural Resources* (\$65,000). 2/2011-7/2013.

Carbon sequestration and greenhouse gas emissions associated with short-rotation woody biomass production in the Upper Great Lakes Region. PIs: Rothstein, D., D.J. Mladenoff, and **A.W. D'Amato**. *USDA National Institute of Food and Agriculture, Agriculture and Food Research Initiative*. (\$998,630). 1/2011-12/2015.

Assessing the Environmental Sustainability and Capacity of Forest-Based Biofuel Feedstocks within the Lake States Region. PIs: **A.W. D'Amato**, D.J. Mladenoff, J. Bradford, J. Forrester, S. Fraver, B. Palik, R. Kolka, and F. Aguilar. *USDA/DOE Biomass Research and Development Initiative* (\$2,715,006). 9/2009-9/2013.

Ecological and hydrological impacts of emerald ash borer. PIs: **A.W. D'Amato**, P. Reich, B. Palik, R. Slesak, A. Ek, G. Domke, and R. Vennette. *Legislative Citizen's Commission on Minnesota's Resources* (\$636,000). 6/2010-6/2015.

Carbon efflux from woody debris – field measurement and regional consequences. PIs: C. Woodall, J. Bradford, S. Fraver, R. Kolka, and **A.W. D'Amato**. *USDA Forest Service Forest Inventory and Analysis Program* (\$153,000). 8/2010-9/2014.

Evaluation of biomass harvesting impacts on Minnesota's forests. PIs: **A.W. D'Amato**, J. Bradford, S. Fraver, R. Slesak, B. Palik, R. Kolka, and C. Blinn. *Legislative Citizen's Commission on Minnesota's Resources* (\$350,000). 6/2011-6/2014.

Adaptation and mitigation options on the Superior National Forest in response to climate change: monitoring, assessing, and forecasting. PIs: J. Bradford and **A.W. D'Amato**. *American Revenue Recovery Act and USDA Forest Service* (\$607,000). 8/2009-8/2014.

Toward annual monitoring of climate change impacts on experimental forests across the northern forest region. PIs: Palik, B., J. Bradford, J. Brissette, S. Fraver, and **A.W. D'Amato**. *USDA Forest Service Northern Research Station Climate Change Funds* (\$360,000). 8/2009-8/2014.

Presentation of forest complexity in the Lake States: ownership patterns and implications for carbon storage. PIs: J. Bradford, **A.W. D'Amato**, and A.O. Finley. *USDA Forest Service Forest Inventory and Analysis Program* (\$48,000). 5/2009-5/2014.

An ecological and socioeconomic evaluation of woody biomass harvesting in the northern forest. PIs: B. Palik, J. Bradford, **A.W. D'Amato**, C. Eagar, S. Fraver, D. King. *USDA Forest Service Northern Research Station* (\$54,768). 8/2009-8/2010.

Quantifying wood decay rates across silvicultural experiments in the northern forest. PIs: S. Fraver, L. Kenefic, J. Bradford, **A.W. D'Amato**, B. Palik, and C. Woodall. *USDA Forest Service Northern Research Station* (\$25,500). 8/2009-8/2010.

Impacts of woody biomass harvesting on saproxylic communities, nutrient availability, and productivity in aspen ecosystems. PIs: **A.W. D'Amato**, C. Blinn, J. Bradford, S. Fraver, R. Kolka, K. Kozak, R. Montgomery, M. Ostry, B. Palik, and D. Zamora. *Minnesota Forest Resources Council* (\$294,000). 7/2008-6/2011.

Sustainable forest biomass production: comparing physical, economic, and social availability. PIs: D.R. Becker, **A.W. D'Amato**, D.A. Current, M.A. Kilgore, A.R. Ek, and T.E. Burk. *Minnesota Department of Agriculture NextGen Energy Grant* (\$144,895). 1/2009-5/2010.

Assessment of carbon flows associated with forest management and biomass procurement for the Laskin biomass facility. PIs: A.R. Ek, D.R. Becker, C.R. Blinn, D. Current, T.E. Burk, **A.W. D'Amato**, M.A. Kilgore, H.M. Hoganson, P.B. Reich, G.M. Domke, and S. Suh. *Minnesota Power* (\$49,428). 4/2008-12/2008.

Tree quality and structure in managed old-growth northern hardwood forests. PIs: **A.W. D'Amato** and B. Palik. *USDA Forest Service Northern Research Station* (\$56,000). 5/2008-5/2013.

Effects of blowdown, salvage logging, and wildfire on regeneration and fuel characteristics in Minnesota's forests. PIs: S. Fraver, B. Palik, and **A.W. D'Amato**. *USDA Forest Service Northern Research Station* (\$187,238). 9/2008-8/2013.

Resurvey of Minnesota Silvicultural Practices. PIs: **A.W. D'Amato** and C.R. Blinn. *Minnesota Interagency Information Cooperative* (\$30,000). 1/2009-6/2009.

Assessing factors influencing eastern larch beetle outbreak severity and the response of tamarack ecosystems. PI: **A.W. D'Amato**. *University of Minnesota Grant in Aid of Research, Artistry, and Scholarship* (\$29,000). 1/2008-6/2009.

Tools and approaches for minimizing the impacts of energy wood harvesting on the environment and soil productivity in Minnesota and beyond. PIs: A.R. Ek, C. R. Blinn, M. A. Kilgore, and **A. W. D'Amato**. *UPM-Kymmene, Blandin Paper Company* (\$14,000). 9/2008-12/2008.

Economic viability of land ownership in the Deerfield Watershed of western Massachusetts. PIs: P. Catanzaro and **A.W. D'Amato**. *The Kohlberg Foundation* (\$44,000). 9/2007-12/2007.

Ecosystem responses to and social perceptions of late-successional forest restoration efforts in southern New England. PIs: **A.W. D'Amato**, M.J. Kelty, and P. Catanzaro. *The Nature Conservancy* (\$35,000). 1/2006-9/2007.

## TEACHING EXPERIENCE

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Responsible for course development and instruction of undergraduate and graduate students on silviculture, applied forest ecology, forest conservation, quantitative methods, and the natural resource and environmental sciences at the University of Minnesota (8/07 – 12/14) and the University of Vermont (1/15- present). Courses serve students pursuing Forestry (FOR) majors or minors, undergraduates in Environmental Science, Wildlife and Fisheries Biology, Natural

Resource Ecology (NR), Parks Recreation and Tourism, and Environmental Studies. Serve as instructor for the following courses with total instruction translating to 243-333 student credit hours per academic year:

- FOR 1** Introduction to Forest Conservation, 3 credits (41-70 students), Spring 2016-present  
**FOR 95** Introduction to Forestry and Wildlife and Fisheries Biology, 1 credits (55-85 students), Spring 2019-present  
**FOR 223/385** Multi-resource silviculture, 4 credits (26-48 students), Fall 2015-present  
**FOR 112** Natural Resources Ecology and Assessment II, 4 credits (23-40 students), Spring 2015-2018  
**FOR 195** New England Family Forests, 1 credit (11 students), Spring 2017.  
**FOR 295** Forest Stand Dynamics, 2 credits (11 students), Fall 2017.  
**NR 6** Race and Culture in Natural Resources (20 students), Fall 2015-2018.

*Other courses taught: University of Minnesota*

- ESPM 3108/5108** Ecology of Managed Systems, 3 credits (55-70 students), Fall 2008-2013  
**FNRM 3411/5411** Managing Forest Ecosystems: Silviculture, 3 credits (35-55 students), Spring 2008-2014.  
**FNRM 4293** Silviculture Directed Study, 1-3 credits, (14 students total), Fall 2008-2014.  
**FNRM 5413** Managing Forest Ecosystems: Silviculture Lab, 1 credit (11-23 students), Spring 2008-2014.  
**FNRM 5611** Field Silviculture, 2 credits (4-19 students), Summer 2008-2014.  
**FNRM 8104** Research Problems: Forest Ecology, 1 credit (5 students), Spring 2008.  
**FNRM 8105** Research Problems: Silviculture and Quantitative Methods, 1-3 credits (6 students total), Fall 2007-2014

*Other courses where guest lectures have been provided*

- FNRM 3612/5612** Silviculture and Timber Harvesting Practices in Minnesota. 2008-2010  
**ESPM 1001** Orientation to Environmental Sciences, Policy & Management. 2007, 2008  
**FNRM 1001/ RRM 1001** Orientation and Information Systems. 2007-2012  
**GEOG 8980** Topics in Geography. 2007  
**NR 2** Nature and Culture  
**NR 205** Ecosystem Management

*Other courses taught: University of Massachusetts, Amherst*

- FOREST 540** Forest Resources Management. 4 credits (24 students). Spring 2004  
**MENTORING**
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*Graduate Faculty Appointments*

- Natural Resources, Rubenstein School of Environment Natural Resources, University of Vermont  
Natural Resource Science and Management (NRSM), University of Minnesota  
Conservation Biology, University of Minnesota  
School of Forest Resources, University of Maine  
Faculty of Forestry and the Forest Environment, Lakehead University

Department of Biological Sciences, University of Quebec at Montreal  
 Department of Environmental Conservation, University of Massachusetts  
 College of Life Sciences and Agriculture, University of New Hampshire  
 Department of Forest and Natural Resources Management, State University of New York

Graduate Student Advising (2007-present)

<b>Advisor or Co-Advisor</b>	<b>Degree</b>	<b>Major</b>
<i>Current</i>		
Soren Donisvitch	MS	NR
Alissa Freeman	PhD	NR
Hanusia Higgins	MS	NR
Jordan Luff	MS	NR
Sophie Marinace	MS	NR
Tessa McGann	MS	NR
Paulina Murray	PhD	NR
Jennifer Santoro	PhD	NR
Rachel Swanwick	MS	NR
Jess Wikle	PhD	NR
<i>Graduated*</i>		
Nicholas Bolton*	MS (2011)	NRSM
Olivia Box*	MS (2021)	NR
David Carter*	PhD (2018)	NRSM
Peter Clark*	PhD (2021)	NR
Miranda Curzon*	PhD (2014)	NRSM
Grant Domke*	PhD (2010)	NRSM
Kyle Gill*	MS (2014)	NRSM
Christopher Gronewold*	MS (2010)	NRSM
Molly Heuss*	MS (2017)	NR
Elizabeth Jamison*	MS (2021)	NR
Christopher Looney*	PhD (2017)	NRSM
Matthias Nevins*	MS (2019)	NR
Eric North*	PhD (2017)	NRSM
Paul Klockow*	MS (2012)	NRSM
Justin Pszwaro*	MS (2014)	NRSM
Michael Reinikainen*	MS (2011)	NRSM
Laura Reuling*	MS (2014)	NRSM
Margaret Roberts*	MS (2015)	NRSM
Nicole Rogers*	PhD (2019)	NR
Erika Rowe*	MS (2015)	NRSM
Emma Sass*	MS (2017)	NR
Emily Silver*	MS (2012)	NRSM
Sawyer Scherer*	MS (2016)	NRSM
Andrew Telander*	MS (2013)	NRSM
Stacy Troumbly*	MS (2010)	NRSM

**Prelim and/or Final Examination Committee Member**

Chaina Baipkee*	PhD (2013)	NRSM
Megan Buchanan	PhD	Geography
Peter Dieser*	MS (2011)	NRSM
Salli Dymond*	PhD (2014)	NRSM
Nicholas Fisichelli*	PhD (2012)	NRSM
Chad Giblin*	MS (2012)	NRSM
Marina Golivets*	PhD (2019)	NR
Aviva Gottesman*	MS (2016)	NR
Julie Hendrickson*	MS (2012)	NRSM
Christel Kern*	PhD (2011)	NRSM
Keegan Lund*	MS (2011)	Conservation Biology
Kyle Motley*	MS (2017)	NR
Paul Ojanen*	MS (2014)	NRSM
Liza Morse	PhD	NR
Jamie Mosel	PhD	NRSM
Fraser McKee*	PhD (2015)	Entomology
Daniel Pratson	PhD	NR
Julia Rauchfuss*	PhD (2009)	Geography
Karl Sames	MS	NRSM
Chris Smith*	MS (2011)	Conservation Biology
Joe Walton*	MS (2012)	NRSM
Kathryn Wrigley	PhD	NR
John Zobel*	MS/PhD (2013)	NRSM

Post-doctoral research associates

Alessandra Bottero (2014-2015)  
Peter Clark (2021-present)  
Miranda Curzon (2014-2016)  
Jane Foster (2011-2019)  
Lucas Harris (2022-present)  
Sidhanand Kukrety (2011-2015)  
Valerie Kurth (2012-2014)  
Caitlin Littlefield (2019-2020)  
Wu Ma (2017-2019)  
David McKenzie (2012-2013)  
Matthew Russell (2012-2014)  
Brian Young (2013-2014)  
Melissa Youngquist (2015-2019)

**PROFESSIONAL SERVICE & DEVELOPMENT**

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***University Service***

Director– University of Vermont, Research Forests (2019-present)  
Director– University of Vermont, Forestry Program (2016-present)  
Advisor – University of Vermont Forestry Club (2017-present).

Advisor – University of Vermont, Alpha Omicron chapter of Xi Sigma Pi (National Forestry Honor Society; 2017-present)

Chair, School Forest Manager Search Committee, RSENR, University of Vermont (2021-present).

Faculty Standards Committee, Rubenstein School of Environment and Natural Resources (RSENR), University of Vermont (2020-present).

Faculty Senator (RSENR Representative) – University of Vermont Faculty Senate (2017-2020).

Quiz Bowl Team Advisor – University of Vermont, Student Chapter of Society of American Foresters (2015-present).

Wildlife Biology Faculty Search Committee, RSENR, University of Vermont (2018-2019).

Co-Advisor – University of Vermont Forestry Club (2015-2017).

Honors and Studies Committee, Rubenstein School of Environment and Natural Resources (RSENR), University of Vermont (2015-2018).

Chair, Forestry Lecturer Search Committee, RSENR, University of Vermont (2017-2018).

University Forest Lands Committee, RSENR, University of Vermont (2015-present).

Environmental Studies Director Search Committee, RSENR, University of Vermont (2015-2016).

Graduate Special Gift Committee, RSENR, University of Vermont (2015-2018).

Quiz Bowl Team Advisor – University of Minnesota, Student Chapter of Society of American Foresters (2007-2014).

Advisor – University of Minnesota Forestry Club (2008-2014).

University of Minnesota, Dept. of Forest Resources Curriculum Committee (2008-2014).

Forest Hydrology Faculty Search Committee, Department of Forest Resources (2012).

Department of Forest Resources Strategic Planning Committee (2013-2014)

Forest Ecosystem Health Faculty Search Committee, Department of Forest Resources (2012-2013).

Quantitative Ecologist Faculty Search Committee, Department of Fisheries, Wildlife, and Conservation Biology (2012-2013).

Faculty participant and tour leader – College of Food, Agricultural, and Natural Resource Sciences (CFANS) Dean’s Welcome, FR, RRM, and ESPM Presentations and Lab Tour (2011, 2014).

Cloquet Forestry Center Director of Operations Search Committee, Department of Forest Resources (2011-2012).

Faculty participant – CFANS Sneak Peak, Natural Resource and Environmental Sciences Tour (2010, 2011).

Department of Forest Resources Curriculum Refinement Committee (2010)

Forest Entomology Faculty Search Committee, Department of Entomology (2009).

Human Dimensions Faculty Search Committee, Department of Forest Resources (2009).

Faculty Senator (CFANS Representative) – University of Minnesota Faculty Senate (2009-2011).

Member – Biodiversity Task Force, University of Minnesota, CFANS (2008-2009).

Presenter and panel member – Center for Teaching and Learning. Assignments that Connect Field Work with Course Learning Goals. Workshop for visiting faculty from Copenhagen Danish Institute for Study Abroad (2008).

### ***National & International Service***

Board member – Northern Woodlands (2022-present).

Member, Massachusetts Department of Conservation, Forest Reserves Science Advisory Committee (2022-present)

Chair – Green Mountain Division of the Society of American Foresters (2021-2022).

External evaluator – Purdue University-promotion and tenure. Department of Forestry and Natural Resources (2021).

External evaluator – University of Alberta-promotion and tenure. Department of Renewable Resources (2021).

External evaluator – University of Florida-promotion and tenure. School of Forest Resources and Conservation (2020).

Member, Technical Advisory Committee, New England Forestry Foundation, Exemplary Forestry in the North Central and Transition Hardwoods (2020-present)

External evaluator – University of Kentucky-promotion and tenure. Department of Forestry and Natural Resources (2020).

External evaluator – Oregon State University-promotion and tenure. Department of Forest Engineering, Resources, & Management (2020).

Subject-matter editor (Forest Ecology) – *Forest Science* (2021-present).

Regional Representative, Northern Region – Society of American Foresters, Forest Science and Technology Board (2019-present)

Program Chair – 2019 New England Society of American Foresters Winter Meeting (2018-2019).

External evaluator – University of Alabama-promotion and tenure. Department of Geography (2018).

Reviewer–McIntire-Stennis Program Internal Competition, Penn State University (2018, 2019).

Co-Director – Northeast Silviculture Institute for Foresters, Northeast State Foresters Association (2017-present).

Member – Planning Committee, 2018 New England Society of American Foresters Winter Meeting (2017-2018).

Technical Contributor – Fourth National Climate Assessment, Forests Chapter, U.S. Global Change Research Program (2017-2018).

Member – Planning Committee, Science and Management of Ash Forests after Emerald Ash Borer Workshop (2016-2017).

Education Chair–Green Mountain Division Chapter of the Society of American Foresters (2016-present).

External evaluator – West Virginia University-promotion and tenure. Division of Forestry and Natural Resources (2016).

Co-Organizer – Multi-aged Silviculture of Northern Hardwood and Mixedwood Forests in Quebec. New England Society of American Foresters Silviculture Working Group Field Tour (2016).

Co-Chair – Planning Committee, 2016 Society of American Foresters National Convention (2015-2016).

Member – Planning Committee, 2017 New England Society of American Foresters Winter Meeting (2016-2017).

Forest Science Coordinator – New England Society of American Foresters Chapter (2015-present)

Co-Chair – Northern Forest Working Group, Upper Midwest and Great Lakes Landscape Conservation Cooperative (2013-2016).

Panel member – USFS National Advanced Silviculture Program – Region 9 Silviculture Certification Panel (2013, 2016)

Reviewer–Mitacs Accelerate Internship Program, Quebec, CA (2016).

Reviewer–National Science Foundation, Division of Environmental Biology (2016).

Member – Ecological Subcommittee on Wisconsin’s Biomass Harvesting Guidelines (2013-present).

Subject-matter editor (Forest Ecology) – *Ecology* and *Ecological Monographs* (2011-present).

Subject-matter editor (Forest Ecology) – *Journal of Forestry* (2011-present).

Member – Planning Committee, 2015 Society of American Foresters National Convention (2014-2015).

External evaluator – Senior lecturer in Biodiversity in production forests. Faculty of Forest Sciences, Swedish University of Agricultural Sciences (2014).

Co-Organizer and Instructor – Climate-informed management workshop. Sustainable Forests Education Cooperative (2014).

External evaluator – Pennsylvania State University-promotion and tenure. Department of Ecosystem Science and Management (2013).

Reviewer – Wisconsin Department of Natural Resources, Swamp Hardwood Silviculture Guidelines (2013).

Reviewer – Minnesota Department of Natural Resources Tamarack Assessment (2013).

Instructor and workshop co-organizer – Adaptive Forest Management Workshop. Sponsored by the Sustainable Forestry Education Cooperative (2013).

Instructor and workshop co-organizer – Black ash field day. Sponsored by the Sustainable Forestry Education Cooperative (2013).

Session Organizer – Ecological Society of America National Convention. Minneapolis, MN (2013).

External thesis examiner – Department of Biological Sciences, University of Quebec at Montreal, Montreal, Canada (2012, 2017).

Session Organizer – North American Forest Ecology Workshop, Roanoke, VA (2011).

Reviewer – Minnesota Voluntary Forest Management Guidelines revisions, Minnesota Forest Resources Council (2012).

External Graduate Faculty Member – School of Forest Resources, University of Maine, Orono, ME (2011-present).

Reviewer – Climate Change and Renewable Energy Management Foundations-Biofuels and Carbon Sequestration Sections, Minnesota DNR (2011).

Instructor and workshop co-organizer – Certificate Course in Ecosystem Silviculture: Application of Ecological Classification Systems to Management. Sponsored by the Sustainable Forestry Education Cooperative (2011, 2013).

Instructor and workshop co-organizer – Intermediate Stand Treatments Mixed Species Field Day. Sponsored by the Sustainable Forestry Education Cooperative (2011).

Instructor and workshop co-organizer – Adaptive Management in the Face of Climate Change. Sponsored by the Sustainable Forestry Education Cooperative (2012).

Chair – Forest Ecology and Range working group, Society of American Foresters (2010- 2016).

Chair – Education Development Committee, Minnesota Chapter of the Society of American Foresters (2010-2014).

Session Organizer – Ecological Society of America National Convention. Pittsburgh, PA (2010).

External examiner – Office of Graduate Studies and Faculty of Forestry and the Forest Environment, Lakehead University, Ontario, Canada (2010).

Reviewer – National Park Service George Melendez Wright Climate Change Fellowship (2010).

Reviewer – Chequamegon-Nicolet National Forest Climate Change Response Framework (2010).

Delphi Study Panel member – Ash management recommendations for Minnesota family forest owners. University of Minnesota Extension (2010).

Instructor – National Advanced Silviculture Program: Lake States local module. Houghton, MI. Sponsored by USDA Forest Service (2010, 2012).

Instructor and workshop co-organizer – Intermediate Stand Treatments Workshop. Sponsored by the Sustainable Forestry Education Cooperative (2010).

Reviewer – Strategies for managing emerald ash borer introductions within Minnesota. Minnesota EAB Advisory Group (2009).

Member – Sustainable Forestry Education Cooperative, Education Advisory Committee (2009-present).

Member – Black ash management guidelines development group. Minnesota Department of Natural Resources (2009).

Panel member – Briefing on emerging and threatening tree diseases and forest pests. Legislative Citizen’s Commission on Minnesota’s Resources (2009).

Session Organizer – North American Forest Ecology Workshop, Logan, UT (2009).

Instructor – Ecological Forestry: natural disturbance-based silviculture and restoring late-successional forest structure. On-line videos sponsored by the University of Minnesota Extension My Minnesota Woods Website (2009).

<http://www.myminnisotawoods.umn.edu/2009/11/two-videos-natural-disturbance-based-silviculture-and-restoring-late-successional-structure/>

Member – Silviculture Task Force coordinated by Minnesota Forest Resources Partnership (2007-2008).

Field tour organizer and leader – Improving Productivity of Minnesota’s Forest Resources Workshop coordinated by the Minnesota Forest Resources Partnership (2008).

Instructor – Certificate Course in Ecosystem Silviculture: Forest Ecology and Silvics. Sponsored by the Blandin Foundation and the Sustainable Forestry Education Cooperative (2008).

Instructor – Certificate Course in Ecosystem Silviculture: Silvicultural Systems. Sponsored by the Blandin Foundation and the Sustainable Forestry Education Cooperative (2008).

### ***Journal Reviewer***

American Midland Naturalist, Annals of Forest Science, Bioscience, Canadian Journal of Forest Research, Ecology, Ecological Applications, Ecological Monographs, European Journal of Forest Research, Forests, Forest Science, Forest Ecology and Management, Global Change Biology, Journal of Ecology, Journal of Environmental Management, Journal of Forestry, Journal of the Torrey Botanical Society, Journal of Vegetation Science, New Forests, Northeastern Naturalist, Northern Journal of Applied Forestry, Restoration Ecology, Rhodora, Western Journal of Applied Forestry

### ***Grant Proposal Reviewer***

Natural Sciences and Engineering Research Council of Canada, Northeastern States Research Cooperative, University of Massachusetts Agricultural Experiment Station, University of Minnesota Agricultural Experiment Station, University of Maine Agricultural and Forest Experiment Station, USDA NIFA: Small Business Innovation Research Program Forests & Related Resources

### ***Additional Academic Training***

Creating a culturally inclusive classroom—from pedagogy to practice, UMN (2010).  
Panel Discussion on Students with Asperger's Disorder (2010).  
Early Career Faculty Learning Community, UMN (2008-2009).  
Using Student Feedback to Improve Teaching and Learning, UMN (2008).  
How (and Why) to Shift from Instructor-Centered to Student-Centered Teaching, UMN (2008).  
Building Online Communication into Your Course, UMN (2007).  
Course Design: Linking Content to Student Understanding and Performance, UMN (2007).  
Teaching through Active Lectures, University Of Minnesota, UMN (2007).  
Getting Started as a Successful Grant Writer and Academician, UMN (2007).

### **SELECTED PROFESSIONAL PRESENTATIONS (presenter in bold)**

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- D'Amato, A.W.** 2021. *Using Ecological Forestry to Support Bird Management Objectives*. Invited presentation. U.S. Fish and Wildlife Service Forest Ecology Working Group and NCTC Webinar. December 14.
- D'Amato, A.W.** 2021. *National perspectives on forest adaptation and invasives*. Invited presentation. 2021 NY Invasive Species Summit, Albany, NY. November 17.
- D'Amato, A.W.** 2021. *Planting as an adaptation strategy for addressing EAB*. Invited presentation and panelist. Wisconsin Tribal Conservation Advisory Council Webinar Series. February 11.
- D'Amato, A.W.** 2021. *Why should I care: EAB impacts on ash forests in the Great Lakes Region*. Invited presentation and panelist. Wisconsin Tribal Conservation Advisory Council Webinar Series. January 20.
- Bradley, B., T. Morelli, and A.W. D'Amato.** 2020. *A Look at Research addressing Invasive Species and Climate Change impacts in the Northeast*. Invited presentation. Northeast Climate Adaptation Science Center Webinar for Tribal Environmental/Natural/Cultural Resource Managers. April 17.
- D'Amato, A.W.** 2021. *Future of forests and forestry*. Invited Keynote Presentation. New England Society of American Foresters Winter Meeting. March 23
- D'Amato, A.W.** 2020. *Silviculture for adaptation in north temperate forest systems*. Invited presentation. Hanover Forest Online Science Seminar Series, Michigan State University. December 8.

- D'Amato, A.W., and A. Mahaffey.** 2020. *Building community to address the threat of emerald ash borer to northern forests.* Invited presentation. Northeast RISCC Management Network Webinar Series. September 22.
- A.W. D'Amato.** 2020. *Managing emerald ash borer and climate change.* Invited presentation. Forest Adaptation Webinar Series, Northern Institute of Applied Climate Science and Forest Stewards Guild. July 22
- D'Amato, A.W.,** C.W. Woodall, K. Evans, B.J. Palik, and L.N. Nagel. 2019. *Operational evaluations of adaptive silviculture strategies for northern hardwood-dominated ecosystems: the New England Adaptive Silviculture for Climate Change project.* Invited presentation. North American Forest Ecology Workshop, Flagstaff, AZ. June 25.
- D'Amato, A.W.,** B.J. Palik, R.A. Slesak, C.A. Looney, M. Youngquist, G. Edge, C. Matula, D. Bronson, and G. Swanson. 2019. *Adaptive silvicultural strategies for black ash forests threatened by the introduced emerald ash borer.* Invited Keynote Presentation. National Silviculture Workshop, Bemidji, MN. May 21.
- D'Amato, A.W.** 2019. *Adaptive management of northeastern forests: building on the past to address future challenges.* Invited presentation. Department of Environmental Conservation Seminar Series, UMass. April 19.
- D'Amato, A.W.,** and B.J. Palik. 2019. *Integrating novel with natural dynamics in the design of silvicultural adaptation strategies.* Invited Keynote Presentation. Congress of Quebec Foresters, Quebec City, Quebec. April 4.
- D'Amato, A.W.** 2019. *Putting the forest first: managing within the context of EAB.* Invited presentation. New England Society of American Foresters Winter Meeting, Burlington, VT. March 28.
- D'Amato, A.W.** 2018. *Adaptive silvicultural strategies for northern hardwood forests: building on the past to address future challenges.* Invited Keynote Presentation. International Union of Forest Research Organizations: Uneven-aged Working Group Meeting. Valdivia, Chile. November 13.
- D'Amato, A.W.** 2018. *Silvicultural considerations for Vermont's ash within the context of emerald ash borer.* Managing our Changing Forests Webinar Series. University of Vermont Extension. June 20.
- D'Amato, A.W.** 2018. *A lesson in severe, episodic forest disturbances: The 1938 hurricane and long-term dead wood legacies.* New England Society of American Foresters Winter Meeting. Nashua, NH. March 28.
- D'Amato, A.W.** 2017. *Silviculture in the face of uncertainty: is the past still relevant?* Invited Keynote Presentation. 11th North American Forest Ecology Workshop, Edmonton, Alberta. June 20.

- Rogers, N.S.,** A.W. D'Amato, R. Nyland, L. Kenefic, and M. Twery. 2017. *Long-term regeneration dynamics in northern hardwood forests of the northeast United States*. Presentation. 11th North American Forest Ecology Workshop, Edmonton, Alberta. June 20.
- Palik, B.J.** and A.W. D'Amato. 2017. *Operational-scale experiments: connecting scientists with real world forestry*. Presentation. 11th North American Forest Ecology Workshop, Edmonton, Alberta. June 20.
- D'Amato, A.W.,** B.J. Palik, C. Looney, R. Slesak, and M. Slater. 2017. *Black ash, emerald ash borer, and climate change: assisting the replacement of a foundational species*. Presentation. 11th North American Forest Ecology Workshop, Edmonton, Alberta. June 22.
- Palik, B.J.,** A.W. D'Amato, L. Nagel, and J. Mueller. 2017. *Transitioning red pine forests to a warmer, drier future: assisting replacement of an iconic species*. Presentation. 11th North American Forest Ecology Workshop, Edmonton, Alberta. June 22.
- Foster, J.R.,** and A.W. D'Amato. 2017. *Forecasting migration rates of montane species under climate change with a spatially dynamic vegetation model*. Presentation. 11th North American Forest Ecology Workshop, Edmonton, Alberta. June 22.
- D'Amato, A.W.** 2017. *Strategies for managing forests to increase drought tolerance*. Invited presentation. New England Society of American Foresters Winter Meeting, Bangor, ME. March 8.
- D'Amato, A.W., and S. Bédard.** 2017. *A cross-border examination of the silviculture of northern hardwoods*. Presentation. New England Society of American Foresters Winter Meeting, Bangor, ME. March 7.
- Gill, K.G.,** A.W. D'Amato, and S. Fraver. 2016. *Jack pine stand recruitment and development in Central Minnesota*. Presentation and discussion panel for Sustainable Forests Educational Cooperative Fire in Minnesota's Forests workshop, Grand Rapids, MN. December 1.
- D'Amato, A.W.,** B.J. Palik, and R.A. Slesak. 2016. *Sustaining Great Lakes Black Ash Forests in the Face of Emerald Ash Borer*. Society of American Foresters National Convention. Madison, WI. November 5.
- Palik, B.J.,** A.W. D'Amato, and R.A. Slesak. 2016. *Evaluating Replacement Tree Species in Black Ash Forests Threatened by EAB and Climate Change*. Society of American Foresters National Convention. Madison, WI. November 5.
- Pzswaro, J.,** A.W. D'Amato, B.J. Palik, and R.A. Slesak. November 5. *Silvicultural Options for Increasing Resilience of Black Ash Wetlands to EAB in Wisconsin*. Society of American Foresters National Convention. Madison, WI. November 5.
- Foster, J.R.,** and A.W. D'Amato. 2016. *Forecasting climate change refugia for montane species: how harvest and disturbance affect species persistence*. ECANUSA Conference, Burlington, VT. September 30.

- Curzon, M.T.,** A.W. D'Amato, J.R. Foster, B.J. Palik, S. Fraver, J.B. Bradford, A. Bottero, and K.E. Gleason. 2016. *Management influences functional composition and diversity in northern hardwood and mixed-conifer forests in Maine and New Hampshire, USA*. ECANUSA Conference, Burlington, VT. September 30.
- D'Amato, A.W.** 2016. *Sustaining forest ecosystems in the face of global change*. Invited presentation. Marine Biological Laboratory Distinguished Scientist Seminar Series. Woods Hole, MA. September 16.
- Curzon, M.T.,** A.W. D'Amato, J.R. Foster, B.J. Palik, S. Fraver, J.B. Bradford, A. Bottero, and K.E. Gleason. 2016. *Forest structure and management influence trait-based growth in northern forests across the northeastern United States*. 101st Ecological Society of America Meeting, Fort Lauderdale, FL. August 7-12
- Foster, J.R.,** and A.W. D'Amato. 2016. *Forecasting potential climate change refugia to guide conservation of montane species*. 101st Ecological Society of America Meeting, Fort Lauderdale, FL. August 7-12.
- Foster, J.R.,** and A.W. D'Amato. 2016. *Forecasting Potential Climate Refugia to Guide Conservation of Montane Species*. Northeast Climate Science Center Webinar. February 24.
- Youngquist, M.,** A.W. D'Amato, S. Eggert, B.J. Palik, and R.A. Slesak. 2016. *Potential Indirect Effects of Invasive Emerald Ash Borer on Wetland Fauna in Black Ash Forests*. Midwest Fish and Wildlife Conference, Grand Rapids, MI. January 25-27.
- D'Amato, A.W.** 2016. *Exploring silvicultural strategies in Vermont's changing forest – northern hardwoods*. Invited presentation. University of Vermont Extension Webinar. January 21.
- Looney, C.,** A.W. D'Amato, and B.J. Palik. 2015. *Treatment, Species, and Planting Season Impact Seedling Success in EAB-Imperiled Black Ash Forests*. Society of American Foresters National Convention, Baton Rouge, LA. November 5.
- Palik, B.J.,** L. Nagel, and A.W. D'Amato. 2015. *Adaptive silviculture for climate change in red pine forests*. Society of American Foresters National Convention, Baton Rouge, LA. November 5.
- D'Amato, A.W.** 2015. *Examining historic temperate forest dynamics to inform adaptive approaches*. Invited presentation at Biology Department Seminar Series, University of Quebec at Montreal. September 30.
- Bottero A.,** A.W. D'Amato, B.J. Palik, J.B. Bradford, S. Fraver. 2015. *Thinning reduces vulnerability of forest ecosystems to drought*. Italian Congress on Silviculture, Florence, Italy. September 15.

- Woodall, C.W.**, Walters, B.F., Coulston, J.W., D'Amato, A.W., Domke, G.M., Russell, M.B., Sowers, P.A. 2015. *Recent land use change is a substantial component of the forest carbon sink in the eastern United States*. 100th Ecological Society of America Annual Meeting. August 9-14. Baltimore, MD.
- D'Amato, A.W.**, B.J. Palik, L. Reuling, and K. Martin. 2015. *Moving beyond gap-phase replacement: strategies for increasing compositional diversity in northern hardwood systems*. North American Forest Ecology Workshop, Veracruz, Mexico. June 15.
- D'Amato, A.W.**, D.R. Foster, D.A. Orwig, A. Barker Plotkin, P. Schoonmaker. 2015. *Long-term deadwood dynamics following stand-replacing wind in an old-growth *Tsuga canadensis*-*Pinus strobus* forest in southern New England*. North American Forest Ecology Workshop, Veracruz, Mexico. June 15.
- Gill, K.G.**, A.W. D'Amato, S. Fraver, J. Almendinger, N. Aaseng. 2015. *Structure and dynamics of range-margin *Pinus banksiana* populations in Minnesota, USA*. North American Forest Ecology Workshop, Veracruz, Mexico. June 15.
- Looney, C.**, A.W. D'Amato, and B. J. Palik. 2015. *Overstory treatment and planting season affect survival of replacement tree species in emerald ash borer-threatened *Fraxinus nigra* forests in Minnesota, USA*. North American Forest Ecology Workshop, Veracruz, Mexico. June 18.
- Palik, B.J.**, L. Nagel, A.W. D'Amato, and C. Kern. 2015. *Adaptive silviculture for climate change in *Pinus resinosa* (red pine) forests*. North American Forest Ecology Workshop, Veracruz, Mexico. June 18.
- D'Amato, A.W.**, S. Fraver, J.B. Bradford, and B.J. Palik. 2015. *Salvage logging within the context of interacting disturbances in sub-boreal pine systems*. Invited talk at Symposium on the Ecological and Silvicultural Consequences of Disturbance and Salvage Logging on the Sustainability and Biodiversity of Forest Ecosystems. Powdermill Nature Reserve, Rector, PA. May 31.
- D'Amato, A.W.** 2015. *Something old, something new: silvicultural strategies for addressing climate change*. Invited presentation at New England Society of American Foresters 95th Winter Meeting. Fairlee, VT. March 26.
- D'Amato, A.W.** 2014. *Silvicultural scenarios under climate change*. Invited talk at Forest Guild National Meeting. Burlington, VT. June 20.
- D'Amato, A.W.** 2014. *Natural dynamics and management options for black ash forests threatened by emerald ash borer in the upper Great Lakes region, USA*. Invited talk at Harvard Forest Fall Seminar Series. September 12.

- D'Amato, A.W.** 2014. *Real world examples of forest adaptation*. Invited talk at Northern Institute of Applied Climate Science Climate Change and Southern New England Forests Workshop. Amherst, MA. September 23.
- Woodall, C.W.,** Russell, M.B., Walters, B.F., D'Amato, A.W., Zhu, K., Saatchi, S.S. 2014. *Forest production dynamics along a wood density spectrum in eastern US forests*. IUFRO World Congress and SAF National Convention. Salt Lake City, UT. October 5-11.
- Woodall, C.W.,** Russell, M.B., Walters, B.F., D'Amato, A.W., Fraver, S., Domke, G.M. 2014. *Downed dead wood net carbon flux in forests of the eastern United States*. IUFRO World Congress and SAF National Convention. Salt Lake City, UT. October 5-11.
- Woodall, C.W.,** Russell, M.B., D'Amato, A.W., Walters, B.F., Domke, G.M., McWilliams, W. 2014. *Drivers of forest regeneration in forests of the eastern United States*. IUFRO World Congress and SAF National Convention. Salt Lake City, UT. October 5-11.
- Woodall, C.W.,** Domke, G.M., Smith, J., Coulston, J., Russell, M., D'Amato, A.W., Ogle, S., Swan, A. 2014. *Recent technical changes to the United States forest carbon inventory*. IUFRO World Congress and SAF National Convention. Salt Lake City, UT. October 5-11.
- Russell, M.,** C. Woodall, G. Domke, A. D'Amato. 2014. *Coarse woody debris carbon dynamics: research insights from FIA's downed woody materials indicator*. 2014 Society of American Foresters National Convention CIF/IFC AGM Conference-Inventory, Monitoring, and Analysis Training Workshop. Salt Lake City, UT. October 8-11.
- Reinikainen, M.,** A.W. D'Amato, and B. Palik. 2014. *Three-year survival and growth of potential replacement tree species for black ash in north central Minnesota* (oral presentation). Black Ash Symposium, University of Maine, Orono, ME. November 4-7.
- Fraver, S.,** A.W. D'Amato, M. Reinikainen, K. Gill, and B. Palik. 2014. *Structure and stand dynamics of old-growth black ash stands in northern Minnesota* (oral presentation). Black Ash Symposium, University of Maine, Orono, ME. November 4-7.
- D'Amato, A.W.,** B.J. Palik, S. Fraver, E.J. Silver, and J.B. Bradford. 2014. *Long-term structural and compositional development of fire-origin red pine forests in north central Minnesota*. Invited webinar. Lake States Fire Science Consortium. November 20.
- Woodall, C.W.,** Domke, G.M., Smith, J.E., Coulston, J., Healey, S.P., Perry, C.H., Gray, A., Russell, M., D'Amato, A.W., Ogle, S., Swan, A. 2014. *Reducing uncertainty and increasing consistency: Recent technical improvements to the 2015 United States forest carbon inventory*. American Geophysical Union Annual Meeting. San Francisco, CA. Dec. 15-19.
- D'Amato, A.W.** 2013. *Black ash: characterizing stand dynamics, evaluating management options, and anticipating EAB impacts*. Invited talk at Forest Health Workshop sponsored by Chippewa National Forest and Minnesota DNR, Walker, MN. February 12.

- D'Amato, A.W.** 2013. *Current status and trends in silvicultural practices in Minnesota*. Invited talk at Minnesota Society of American Foresters Annual Meeting, Coon Rapids, MN. February 26.
- D'Amato, A.W., L. Reuling, B. Palik, and K. Martin.** 2013. *Assessing the efficacy of natural disturbance-based harvest gaps at restoring old-growth composition and structure*. Talk at 98th Annual Meeting Ecological Society of America. August 4-9, 2013. Minneapolis, MN.
- D'Amato, A.W.** 2013. *Adaptive silviculture and site level considerations for northern hardwoods*. Invited presentation at the 2013 Wisconsin Society of American Foresters State Conference, Minocqua, WI. September 17.
- D'Amato, A.W.** 2013. *Examining management options and impacts for black ash forests threatened by EAB*. Invited seminar at North Central Forest Pest Workshop, Frontenac, MN. September 24.
- D'Amato, A.W.** 2013. *Silviculture is Dead. Long live Silviculture*. Invited panel presenter at Society of American Foresters National Convention plenary session. Charleston, SC. October 24.
- D'Amato, A.W.** 2012. *Looking back to inform the future: retrospective assessments of forest adaptation and mitigation strategies*. Invited webinar as part of Northeast Climate Science Center Colloquium, University of Massachusetts, Amherst, MA. February 15.
- D'Amato, A.W.** 2012. *Looking back to assess the efficacy of forest adaptation strategies: density management and drought*. Invited seminar as part of SFEC “Adaptive Management in the Face of Climate Change” Workshop, Cloquet, MN. February 21.
- D'Amato, A.W.** 2012. *Research examining EAB impacts and black ash management options*. Invited seminar at workshop organized by Aitkin County Land Department and Forest Stewards Guild: “Managing Black Ash in the EAB Era,” Isle, MN. March 9.
- D'Amato, A.W., S. Fraver, M. Reinikainen, B.J. Palik, and K. Gill.** 2012. *Dynamics and structure of old-growth Fraxinus nigra systems: baselines for a foundation species in peril*. Talk at 97<sup>th</sup> Annual Meeting of the Ecological Society of America, Portland, OR. August 8.
- D'Amato, A.W.** 2011. *Future of forest management in the Lake States: insights from several long-term silviculture experiments*. Invited seminar at University of Maine, School of Forest Resources, Forestry Noontime Seminar Series, Orono, ME. January 28.
- D'Amato, A.W.** 2011. *Silviculture in the face of global change: an overview of the UMN silviculture program*. Invited seminar at USDA Forest Service Forest Health Cooperators Meeting, Roseville, MN. March 10.
- D'Amato, A.W., J.B. Bradford, S. Fraver, and B.J. Palik.** 2011. *Looking back to inform the future: The effects of thinning and stand complexity on drought tolerance within Pinus*

- resinosa* systems. Talk at 8<sup>th</sup> North American Forest Ecology Workshop, Roanoke, VA. June 21.
- D'Amato, A.W.** 2011. *Helping forests thrive in the face of global change*. Invited seminar at University of Minnesota Institute on the Environment, Frontiers in the Environment Seminar Series, St. Paul, MN. October 19.
- D'Amato, A.W.** 2010. *Impacts of biomass harvesting on aspen ecosystems in northern Minnesota*. Invited seminar at Minnesota Forest Resources Council Meeting, Shoreview, MN. January 20.
- D'Amato, A.W.** 2010. *Forest management: how our actions influence carbon storage*. Invited talk at Minnesota Society of American Foresters Winter Meeting, Nissiwah, MN. March 3.
- D'Amato, A.W.** 2010. *Landscape-level strategies for balancing forest management objectives: the TRIAD approach to land allocation*. Invited seminar at the Wisconsin Mid-State Chapter of the Society of American Foresters Meeting, Altoona, WI. March 30.
- D'Amato, A.W.** 2010. *Silvicultural options for black ash communities in the face of EAB*. 2010. Invited seminar at the Black Ash Symposium, Bemidji, MN. May 26.
- D'Amato, A.W., J. Bradford, S. Fraver.** 2010. *Neighborhood competition and carbon dynamics across a Pinus resinosa chronosequence in northern Minnesota: insights from dendroecological examinations*. Talk at 95<sup>th</sup> Annual Meeting of the Ecological Society of America, Pittsburgh, PA. August 4.
- D'Amato, A.W.** 2009. *Urban silviculture: big woods thinking for urban scales*. Invited talk at Annual Minnesota Shade Tree Short Course, Arden Hills, MN. March 17-18.
- D'Amato, A.W.** 2009. *Forest management strategies for increasing carbon stocks and sequestration*. Invited webinar for Blandin Foundation Sponsored Carbon Markets and Forest Practices in Minnesota. April 8.
- D'Amato, A.W.** 2009. *The role of ecological silviculture in restoring and conserving forest ecosystems*. Invited seminar for The Nature Conservancy, Minnesota Chapter, Minneapolis, MN. April 16.
- D'Amato, A.W.** 2009. *Testing the effectiveness of Minnesota's biomass harvesting guidelines*. Invited seminar for National Council for Air and Stream Improvement, Northern Regional Meeting, Stevens Point, WI. May 20 (35 attendees).
- D'Amato, A.W., J. Bradford, S. Fraver, R. Kolka, B. Palik, J. Forrester, D. Mladenoff, C. Blinn, and F. Aguilar.** 2009. *Assessing the environmental sustainability and capacity of forest-based biofuel feedstocks within the Lake States region*. Poster at Society of American Foresters National Convention, Orlando, FL. September 30-October 2.

- D'Amato, A.W.** 2009. *Silvicultural implications of biomass harvesting*. Invited seminar at Woody Biomass Harvest and Utilization: Opportunities for Private Forest Landowners Workshop. Sponsored by the University of Minnesota Extension Woodland Advisor Program, Grand Rapids, MN. September 18.
- D'Amato, A.W.** 2009. *Long-term effects of silviculture on carbon and complexity: evaluating tradeoffs and opportunities*. Invited seminar for Hanover Forest Science Lecture Series, Department of Forestry, Michigan State University. October 27.
- D'Amato, A.W.** 2009. *Silviculture in the 21<sup>st</sup> Century*. Invited webinar for University of Minnesota, Sustainable Forestry Education Cooperative. November 16.
- D'Amato, A.W.** 2008. *Assignments that Connect Field Work with Course Learning Goals: FR 5611*. Invited talk and panel for faculty from Copenhagen Danish Institute for Study Abroad. Walter Science Library, University of Minnesota. October 30.
- D'Amato, A.W.** 2007. *Late-successional forest habitats in the Commonwealth: their importance, extent, and management*. Invited seminar at UMass Extension COVERTS training workshop. Petersham, MA. April 28.
- D'Amato, A.W.** and D.A. Orwig. 2006. *Relationships between forest structure and disturbance dynamics in eastern hemlock-dominated forests*. Talk at 91st Annual Meeting of the Ecological Society of America, Memphis, TN. August 5-11.
- D'Amato, A.W.** 2006. *Late successional habitats in the Commonwealth and in the Highland Region*. Invited seminar at UMass Extension COVERTS training workshop. Hawley, MA. May 13.
- D'Amato, A.W.** 2005. *Old-growth forests in the Berkshire Hills and Taconic Mountains of western Massachusetts*. Invited talk at Eastern Native Tree Society's Forest Summit, Holyoke, MA. October 13-14.
- D'Amato, A.W.** 2005. *Insights into stand development from old-growth forest ecosystems in western Massachusetts*. Invited talk at Yankee Division of the Society of American Foresters Stand Development Workshop, Enfield, CT. February 10.
- D'Amato, A.W.** 2004. *Scientific and conservation lessons learned from old-growth forest ecosystems*. Invited talk as part of Harvard Forest Research Experience for Undergraduates Program, Petersham, MA. July 20.
- D'Amato, A.W.** and K.J. Puettmann. 2003. *Interaction dynamics in mixed *Alnus rubra*/*Pseudotsuga menziesii* forests: the relative dominance hypothesis*. Poster at 4<sup>th</sup> North American Forest Ecology Workshop, Corvallis, OR. June 16-20.

## **PROFESSIONAL MEMBERSHIPS, ASSOCIATIONS & CERTIFICATIONS**

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Society of American Foresters, Green Mountain Division, Chair of Education Committee

Society of American Foresters, New England Chapter, Forest Science Coordinator  
Ecological Society of America-Member  
Forest Stewards Guild-Member  
Xi Sigma Pi (National Forestry Honor Society)  
Certified Forester, Society of American Foresters  
Vermont Licensed Forester (License #148.0134005)