



TREE Fund Research Published or Presented in 2018

TREE Fund grantees are noted in bold

Airhart, Douglas. “Tools for Urban Forest Resiliency.” Presented at Tennessee Urban Forestry Council Conference, Nashville, TN, October 2018.

Arnold, M. A. “Do Planting Stock Decisions Really Make Much Difference Down The Road?” Invited webinar sponsored by Tree Research and Education Endowment Fund and hosted by Alabama Cooperative Extension System, February 2018. treefund.org/webinars

Chance, L. M. G., **M. A. Arnold**, W. T. Watson, L. Lombardini, C. R. Hall, S. T. Carver, and A. R. King. “Smaller transplanted container-grown stock offers rapid growth and economic advantages compared to larger container-grown trees across three species.” Presented at The Landscape Below Ground IV Conference: A Series of International Conferences on Tree Root Development in Urban Soils, The Morton Arboretum, Lisle, IL, 15–17 Oct., 2018.

Chance, L. M. G., **M. A. Arnold** (presenter), L. Lombardini, W. T. Watson, S. T. Carver, and A. R. King. 2018. “What size should I plant?” Presented at 38th Annual Texas Tree Conference Tree Academy, Trade Show, and Tree School: Sustainability in Arboriculture, Waco, TX, 26–28 Sept., 2018.

Chance, L. M. G., **M. A. Arnold**, W. T. Watson, L. Lombardini, C. R. Hall, S. T. Carver, and A. R. King. 2018. “Few residual effects of planting stock size remain five years after transplanting to the landscape.” Presented at Annual Conference of the American Society for Horticultural Sciences, Washington, D.C., 30 July–3 Aug., 2018.

Bassuk, Nina. “Reducing Tree (and Soil!) Damage during Construction.” Invited webinar sponsored by Tree Research and Education Endowment Fund and hosted by Utah State University Forestry Extension, December 2018. treefund.org/webinars

Cranshaw, Whitney. “Invasive Insects of Shade Trees: A 30 Year Perspective from Colorado.” Invited webinar sponsored by Tree Research and Education Endowment Fund and hosted by Utah State University Forestry Extension, May 2018. treefund.org/webinars

Rachael A. Sitz, Marcelo M. Zerillo, Jacob Snelling, Jorge Ibarra Caballero, Kathleen Alexander, Kendra Nash, Ned A. Tisserat, **Whitney S. Cranshaw**, and Jane E. Stewart. “Drippy Blight, a Disease of Red Oaks in Colorado, U.S., Produced from the Combined Effect of the Scale Insect *Allokermes galliformis* and the Bacterium *Lonsdalea quercina* subsp. *quercina*.” *Arboriculture & Urban Forestry* 44, no. 3 (2018): 146–153.

Ferrini, Francesco. “Pruning to death: effect of topping on plant growth and physiology and on microclimate conditions.” Presented at Giornate Scientifiche della Società Italiana di Ortoflorofruitticoltura, Bologna, Italy, 19–21 June, 2018.



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Ferrini, Francesco. “Pruning to death: effect of topping on plant growth and physiology and on microclimate conditions.” Presented at 95th ISA Annual International Conference and Trade Show, Columbus, OH, 5–8 August, 2018.

Ferrini, Francesco. “Effect of heavy pruning on tree growth and physiology and on microclimate conditions.” Presented at World Forum of Urban Forestry, Mantova, Italy, 28 November–1 December, 2018.

Fini, Alessio. “Six years and still walking: a long term research on urban trees growing in pervious and impermeable sidewalks.” Presented at the 94th ISA Annual Conference, Columbus, OH, 5-8 August, 2018.

Fini, Alessio. “Nature-based solutions to mitigate soil sealing in urban areas: results from a 6-year study comparing permeable, porous, and impermeable pavements.” Presented at World Forum on Urban Forestry, Mantova, Italy, 27 November–1 December, 2018.

Hauer, R. J., N. Timilsina, J. Vogt, B. C. Fischer, Z. Wirtz, W. Peterson. “A Volunteer and Partnership Baseline for Municipal Forestry Activity in the United States.” *Arboriculture & Urban Forestry* 44, no. 2 (2018): 87–100.

Herms, D. A. “Soil management practices, tree resource allocation patterns, and pest resistance.” Presented at The Landscape Below Ground IV: International Conference on Tree Root Development in Urban Soils, Lisle, IL, 16 Oct., 2018.

Herms, D. A. “Emerald ash borer: planning for the inevitable.” Presented at 2018 Oklahoma Urban and Community Forestry Annual Conference, Tulsa, OK, 25 Oct., 2018.

Herms, D. A. “Emerald Ash Borer: Strategies for Conserving Ash in the Urban Forest.” Invited webinar sponsored by Tree Research and Education Endowment Fund and hosted by Utah State University Forestry Extension, November 2018. treefund.org/webinars

Showalter, D. N., K. F. Raffa, R. A. Sniezko, **D. A. Herms**, A. M. Liebhold, J. A. Smith, and P. Bonello. “Strategic development of tree resistance against forest pathogen and insect invasions in defense-free space.” *Frontiers in Ecology and Evolution* (2018); DOI: 10.3389/fevo.2018.00124.

Rigsby, C. M., C. Villari, D. L. Peterson, **D. A. Herms**, P. Bonello, and D. Cipollini. “Girdling increases survival and growth of emerald ash borer larvae on Manchurian ash.” *Agricultural and Forest Entomology* (2018); DOI.org/10.1111/afe.12292.



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Klooster, W. S., K. J. K. Gandhi, L. Long, K. I. Perry, K. Rice, and **D. A. Herms**. “Ecological impacts of emerald ash borer in forests at the epicenter of the invasion in North America.” *Forests* 9 (2018); 250; doi:10.3390/f9050250.

Hirons, A. and H. Sjöman. “Species Selection for Paved Environments: Translating Science into Practice.” *City TREES* 54, no. 4 (July/Aug 2018): 32-36.

Hirons, A. and H. Sjöman. (2018). Tree Species Selection for Green Infrastructure: A Guide for Specifiers. <http://www.tdag.org.uk/species-selection-for-green-infrastructure.html>

Kane, B. “Loading experienced by a tie-in point during ascents.” *Urban Forestry & Urban Greening* 34 (2018):78–84.

Kane, B. “The effect of simulated trunk splits, pruning, and cabling on sways of *Quercus rubra* L.” *Trees – Structure & Function* 32 (2018):985–1000.

Kane, B. “Arboricultural Biomechanics.” Invited webinar sponsored by Tree Research and Education Endowment Fund and hosted by Alabama Cooperative Extension System, August 2018. treefund.org/webinars

Centrangolo, I., S. R. Arwade, and **B. Kane**. “An investigation of branch stresses induced by arboricultural operations.” *Urban Forestry & Urban Greening* 30 (2018):124–131.

Benson, Andrew R., Andrew K. Koeser, **Justin Morgenroth**. “Estimating conductive sapwood area in diffuse and ring porous trees with electronic resistance tomography.” *Tree Physiology*. tpy092, doi.org/10.1093/treephys/tpy092.

Ordonez, C., V. Sabetski, A. Millward, J. W. N. Steenberg, A. Grant, J. Urban. “The influence of abiotic factors on street tree condition and mortality in a commercial-retail streetscape.” *Arboriculture & Urban Forestry* 44, no. 3 (2018): 133–145.

Percival, G. C. “Evaluation of Silicon Fertilizers and a Resistance Inducing Agent for Control of Apple and Pear Scab under Field Conditions.” *Arboriculture & Urban Forestry* 44, no. 4 (2018): 205–214.

Rahman, Mohammad A., Astrid Moser, Anna Gold, Thomas Rötzer, Stephan Pauleit. “[Vertical air temperature gradients under the shade of two contrasting urban tree species during different types of summer days.](#)” *Science of the Total Environment*. Vol. 633 (2018): 100-111. ISSN 0048-9697, <https://doi.org/10.1016/j.scitotenv.2018.03.168>.



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Scharenbroch, B. C., K. Fite, E. Kramer, and R. Uhlig. "Pedogenic processes and urban tree health in engineered urban soils in Boston, Massachusetts, USA." *Soil Science*. (2018) DOI:10.1097/SS.0000000000000231.

Bialecki, M.B., R. T. Fahey, and **B. C. Scharenbroch**. "Variation in urban forest productivity and response to extreme drought across a large metropolitan region." *Urban Ecosystems*. (2018) 21:157-169.