



TREE Fund Research Published or Presented in 2019

TREE Fund grantees are noted in bold

Arnold, M.A. (presenter), Chance, L.M.G., L. Lombardini, W.T. Watson, S.T. Carver, and A.R. King 2019. “Long term impacts of container size on tree establishment.” Presented at the International Society of Arboriculture Ontario Conference 2019. Windsor, Ontario, Canada, Feb. 20-22, 2019.

Arnold, M.A. 2019. Long-term impact of container size on tree establishment. TREE Fund Research Report 2(2):1-2.

Bassuk, Nina. “Remediating Compacted Soils Compromised by Urban Construction.” Presented as a TREE Fund Webinar co-hosted by Utah State University Forestry Extension. June, 2019.

Bassuk, Nina, Raffel, Gary, Schwartz Sax, Miles. “Root Growth of Accolade™ Elm in Structural Soil Under Porous and Nonporous Asphalt After Twelve Years.” *Arboriculture & Urban Forestry* 45(6):297 November 2019.

Berland A., Roman LA, Vogt J. 2019. “Can field crews telecommute? Varied data quality from citizen science tree inventories conducted using street-level imagery.” *Forests* 10: 349, <https://doi.org/10.3390/f10040349>.

Berland A., Roman LA, Vogt J. 2019. “Generating street tree data using Google Street View: Data quality varies according to analyst expertise.” Oral presentation at the American Association of Geographers Annual Meeting. Washington, DC.

Berland, A. Urban Forest Management & Planning Workshop, January 17, 2019. Led a workshop for 140 urban forestry professionals at the Morton Arboretum in suburban Chicago. This public outreach workshop shared perspectives on best practices for municipal street tree inventories. <http://chicagorti.org/TreeMgmtSymposium>

Acheampon Atta-Boateng, **Graeme P. Berlyn,** Corey S. O'Hern, Alexander J. Felson. 2019. “Suitability of wetland macrophyte in green cooling tower performance.” *Ecological Engineering* Vol.127;487.

Craven, D., J. Hall, **Graeme P. Berlyn,** M.S. Ashton, M. van Breugel. 2019. “Environmental filtering Habitat filtering limits functional diversity during succession in a wet tropical secondary forest.” *Journal of Vegetation Science*. (in press)

Poulos, H. Ms Gailynn Milligan, **Dr Graeme Berlyn,** Dr Barry Chernoff, Mr Joseph Milligan, Dr Martha Gilmore. 2019, “Estimation of short-term C-fixation in a New England temperate tidal freshwater wetland.” 2019. <https://doi.org/10.1016/j.heliyon.2019.e01782>

Anitra L. Thorhauga*, Helen M. Poulos, Jorge López-Portillo, Jordan Barr, Ana Laura Lara-Domínguez, Tim C. Ku, **Graeme P. Berlyn.** 2019. “Gulf of Mexico estuarine blue carbon stock, extent and flux: Mangroves, marshes, and seagrasses: A North American hotspot.” *Science of the Total Environment*. 653:1253-1261.



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Atta-Boateng, A, **Berlyn, G.P.** 2019. “Limiting stress-elimination hypothesis: approach to increase savanna cowpea productivity by stress reduction.” <https://doi.org/10.1101/594754>.

Xuming Wang, Xiaoke Wang, Yuanyuan Chen, **Graeme P Berlyn**. 2019. “Photosynthetic parameters of urban greening trees growing on paved land.” *iForest: Biogeosciences and Forestry*. Vol 12:403-410. <https://doi.org/10.3832/ifor2939-012>.

Ferrini, Francesco. “Effects of heavy pruning on tree growth and physiology and on microclimate conditions.” Presented at ISAHK Arboriculture Summit. November, 2019.

Fini, Alessio (presenter), Ferrini, Francesco. Presentation done at the event Binome, Cuggiono, Italy, about the pruning experiment funded to Francesco (topping and microclimate). 2019.

Goodfellow, John. “Cost efficiency of IVM.” Presentations made at Pro Veg Mngt Assoc, Edmonton, Alberta (April, 2019), Trees & Utilities Conference in Cincinnati, OH (Sept. 2019), Mt Lake Veg Mngt Conference in Norfolk, VA (Oct. 2019), and IL Arb. Assoc, Tinley Park, IL (Nov. 2019). 2019.

Hauer, Rich. “15 Years of TREE Fund Research Grant Program.” Accepted. *Arborist News*. 28(6):32–35. 2019.

Hauer, Rich. “Development Practice and Ordinances as Predictors of Urban Canopy Coverage in Florida Cities.” *Landscape & Urban Planning*. 190 (2019): 103603.

Hauer, Rich. “Street Trees, Construction, & Longevity: Tree Growth and Response Over Forty Years (1979-2018).” Presented at the Research Center for Urban Forestry, State Forestry Administration, Chinese Academy of Sciences. Oral Presentation. Beijing, China. Jan. 7, 2019.

Hauer, Rich. “The ABC’s (Arboreal Biology & Construction) of Trees and Construction.” Presented at the 2019 IAA Annual Conference. Indianapolis Arborist Association. Oral Presentation. Indianapolis, IN. Jan. 22-24, 2019.

Hauer, Rich. “Street Tree Longevity and Construction: 40 Year Case Study of Trees, Construction, and Practice.” Presented at the 2019 WAA/DNR Annual Conference. Wisconsin Arborist Association. Oral Presentation. Green Bay, WI. Feb. 17-20, 2019.

Hauer, Rich. “The Risky Business of Trees and Construction: Baby Stepping Trees Through Decision Making.” Presented at the Missouri Community Forestry Council Annual meeting. Oral Presentation. St. Louis, MO. March 14, 2019.

Hauer, Rich, and Koeser, Andrew. “Cultivating Innovation – Documenting 15 Years of TREE Fund Research Impact” presented at TREE Fund Board of Directors Meeting, May 6-7, 2019, and presented at a TREE Fund webinar. www.treefund.org/webinar-archive. May 29, 2019.



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Hauer, Rich. “Looking Backward and Forward Through TREE Fund Research: Impacts, Practical Research.” Presented at the International Society of Arboriculture 95th Annual Conference & Trade Show, Knoxville, TN. Aug 11-14, 2019.

Hauer, Rich. “A300 Part 6, Planting and Transplanting.” Oral Presentation. Minneapolis, MN. Oct. 15, 2019.

Hauer, Rich. “The Science and BMP’s of Tree Planting and Establishment to Promote Tree Growth and Longevity” Presented at the New Jersey Shade Tree Federation 94th Annual Conference. Atlantic City, NJ. Oct. 24-25, 2019.

Hauer, Rich. “Building Street Tree Resiliency to a Construction Crisis: A 40-year Case Study of Knowledge.” Swedish Tree Association Annual Conference 2019. Oral Presentation. Växjö, Sweden. Nov. 6-7, 2019.

Herms, D.A. 2019. “Strategies for conserving ash in the urban forest.” 2019 ProGreen Expo, Denver, CO. 6 February.

Haavik, L.J., and **D.A. Herms.** 2019. “Growth and ecophysiology vary little among North American, an Asian, and a North American x Asian hybrid ash (*Fraxinus*) species in a common garden in Ohio, USA.” *Arboriculture and Urban Forestry* 45:85-99.

Rigsby, C.M., C. Villari, D.L. Peterson, **D.A. Herms**, P. Bonello, and D. Cipollini. 2019. “Girdling increases survival and growth of emerald ash borer larvae on Manchurian ash.” *Agricultural and Forest Entomology* 21:130-135.

Laver, Alexander. “Optimised techniques for arboreal activities.” *The Arboricultural Association ARB MAGAZINE* Issue 187 Winter 2019, and presented at the ISA Germany Conference and UK Student Conference, 2019.

Percival, G. C and Banks J.M. (2019), Drought Stress Effects On Pests And Diseases. *Arboricultural Magazine. Science and Opinion*: 186: 68-71.

Percival, G. (presenter), C and Banks J.M. “Can We Vaccinate Trees to Protect Against Diseases?” Presented as a TREE Fund Webinar co-hosted by Alabama Cooperative Extension Program. www.treefund.org/webinar-archive. August 29, 2019.

Urban, James. “The Salt Dilemma: Growing Better Urban Trees in Northern Climates.” Presented as a TREE Fund Webinar co-hosted by Utah State University Forestry Extension. www.treefund.org/webinar-archive. February, 2019.

Urban, J., Josey, P. “The Landscape Architect in the Nursery: Tagging Trees and Enforcing Specifications.” Presented a TREE Fund Webinar co-hosted by Utah State University Forestry Extension. Sept. 2019.



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Wolf, Kathleen. “Money Does Grow on Trees: Review of Urban Forest Economic Values.” Presented at the 19th Annual Tree School, Friends of Jefferson the Beautiful (New Orleans LA). April 30, 2019.

Wolf, Kathleen. “Why are Trees Important? Human Health and Economics.” Presented at the Partners in Community Forestry Annual Conference, Cleveland, OH, Nov. 2019, and as a TREE Fund webinar co-hosted by Utah State Forestry Extension www.treefund.org/webinar-archive. Nov. 2019.

Barron, S., Nitoslawski, S., **Wolf, K. L.**, Woo, A., Desautels, E., Sheppard, S. R. J. 2019. “Greening blocks: A conceptual typology of practical design interventions to integrate health and climate resilience co-benefits.” International Journal of Environmental Research and Public Health 16, 4241. DOI: doi:10.3390/ijerph16214241.

Wolf, K.L. 2019. “Bringing it home: Forest therapy, policy and cities.” (pp. 188 - 207). In: D. Kotte, L. Qing, W. S. Shin, A. Michalsen (eds.) International Handbook of Forest Therapy. Newcastle upon Tyne, UK: Cambridge Scholars Publishers.