

Eric A. North, Ph.D.

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EDUCATION

- 2017 **Ph.D., Natural Resources Science and Management**, Emphasis: Urban and Community Forestry, University of Minnesota-Twin Cities
Dissertation: Influence of Climate, Construction Disturbance, and Site Factors on Tree Resistance, Resilience, and Performance in Urban Forests
- 2013 **M.S., Natural Resources Science and Management**, Emphasis: Urban and Community Forestry, University of Minnesota-Twin Cities
Thesis: Predictive equations for crown diameter and trunk flare diameter at ground line for four urban landscape tree species in Minnesota.
- 2012 **B.S., Forest Resources**, Emphasis: Urban and Community Forestry, with Distinction, University of Minnesota-Twin Cities

CURRENT POSITION

2017-present **Assistant Professor of Practice**, University of Nebraska-Lincoln, School of Natural Resources, Appointment: 100% teaching

TEACHING EXPERIENCE

University of Nebraska-Lincoln

- Dendrology: Study and Identification of Trees and Shrubs, Fall 2017-present (19-52 students)
- Tree Biology, Fall 2018-present (11-22 students)
- Arboriculture: Maintenance and Selection of Landscape Trees, Spring 2018-present (6-18 students)
- Green Space and Urban Forestry Management, Spring 2019-present (14-17 students)
- Study Abroad – Botswana: Wildlife Conservation, Summer 2018 (18 students)
- Study Abroad – South Africa: Wildlife Conservation, scheduled Summer semester 2020 (17 students)
- Graduate Independent Research, Spring/Fall 2018-present

University of Minnesota-Twin Cities

- Issues in the Environment, Spring 2016, co-taught (~120 students)
- Arboriculture: Selection and Maintenance of Trees, Spring 2013-2016, co-taught (~9-18 students)

- Dendrology: Identification of Trees and Shrubs, Fall 2013-2016, co-taught (~64-96 students)
- Urban Forest Management: Managing Greenspaces for People, Spring 2014-2015, co-taught (~9-16 students)

STUDENT MENTORING

*Graduated**

2019-present	Iris McFarlin – MS graduate committee – Natural Resource Science
2019-present	Alaina Kapla – BS thesis advisor – Environmental Studies
2019-present	Ryan Kendall – BS thesis advisor – Environmental Studies
2019*	Andrew Benson – PhD Examiner, University of Canterbury, New Zealand – Forestry Science
2019*	Marlana Stephens – BS thesis advisor – Environment Studies
2018-present	Emily Stine – Doctor of Plant Health thesis advisor – Plant Health
2018-2019*	Anna Sonnenfeld – BS thesis advisor – Environmental Studies
2017-2018*	Allie Schiltmeyer – MS thesis committee member – Natural Resource Science
2017*	Maggie Harthoorn – MCRP thesis committee member – Community and Regional Planning

PUBLICATIONS

Peer-Reviewed

Accepted	Hilbert, D., North, E. , Hauer, R., Koeser, A., McLean, D., Northrop, R., Andreu, M., Parbs, S. (In-review). Predicting trunk flare diameter to prevent tree damage to infrastructure. <i>Urban Forestry & Urban Greening</i> . Accepted February 27, 2020
2019	Johnson, G., Giblin, C., Murphy, R., North, E. , and Rendahl, A. Boulevard tree failures during wind loading events. <i>Arboriculture & Urban Forestry</i> 2019. 45(6):259–269.
2018	North, E. A. , A. W. D’Amato, M. B. Russell. Performance metrics for street and park trees in urban forests. <i>Journal of Forestry</i> . 116(6). 547-554. DOI: 10.1093/jofore/fvy049
2018	Bancks, N., E.A. North , G.R. Johnson. An analysis of agreement between volunteer- and researcher-collected urban tree inventory data. <i>Arboriculture & Urban Forestry</i> . 44(2). 73-85.
2017	North, E. A. , A. W. D’Amato, M. B. Russell, G. R. Johnson. The influence of sidewalk replacement on urban street tree growth. <i>Urban Forestry & Urban Greening</i> . 24:116-124. DOI: 10.1016/j.ufug.2017.03.029
2015	North, E. A. , G.R. Johnson, and T. E. Burk. Trunk flare diameter predictions as an infrastructure planning tool to reduce tree and sidewalk conflicts. <i>Urban Forestry & Urban Greening</i> . 14(1): 65-71.

Extension

- 2020 **North, E.** An urban forester in Botswana: Recruiting the next generation. *Arborist News*. 29(2). Accepted
- 2018 **North, E.A.** Urban forest diversity: Our past is prologue and our future is now. *Arborist News*. 27(6):52-54.
- 2017 **North, E.** The Future of Community Forests: Diversity and Involvement. *The Seed*. Nebraska Statewide Arboretum. Summer Edition: 8-9.
- 2017 **North, E.A.** Trees as witnesses. *Arborist News*. 26(3):44-46.
- 2016 Johnson, G. R. and **E. A. North**. Trees and sidewalks: A complicated relationship. *Arborist News*. 25(4):52-53.
- 2016 Johnson, G. R. and **E. A. North**. Total infrastructure planning: Mind the four R's for successful street landscapes. *Arborist News*. 25(3):69
- 2016 **North, E. A.** Pruning: What, why, when, and how. Online outreach article sponsored by the University of Minnesota Extension.
<http://www.myminnesotawoods.umn.edu/?p=11136>
- 2015 **North, E.A.** Trees & Drought. *Minnesota Tree Care Advocate Newsletter*. 20:3.
- 2013 Johnson, G. R., **E. A. North**. Strong winds - Weak trees - Lots of debris. *Minnesota Shade Tree Advisory Committee – Featured Article*.
<https://z.umn.edu/stormresponse>
- 2013 **North, E. A.** Cut it then CODIT. *Minnesota Tree Care Advocate Newsletter*. 19:1.
- 2012 **North, E.A.** Your tree is not a cactus: The importance of watering. *Minnesota Tree Care Advocate Newsletter*. 18:2.

GRANTS AND FELLOWSHIPS

- 2020-2022 Developing a statewide community tree canopy map in Nebraska. The Nebraska Environmental Trust. Co-PI: **Eric North**; Co-PI: Yi Qi. \$95,275
- 2019-2020 Downed woody debris and standing dead snag assessment of Homestead National Monument of America riparian forest. National Park Service. PI: Dirac Tidwell; Co-PI: **Eric North**; Co-PI: Kevin Pope. \$21,800
- 2019 Omaha tree canopy assessment. The Nature Conservancy. PI: **Eric North**. \$5,000
- 2019 Diversity and Inclusion Fellow. University of Nebraska-Lincoln. \$2,000
- 2018-2021 Plant growth regulator effect on silver maple growth after pruning. Rainbow Treecare. PI: Dave Wedin; Co-PI: **Eric North**. \$30,000
- 2018-2021 Shelterbelt structure and function in a changing great plains environment. USDA McIntire-Stennis. PI: David Wedin; Co-PI: John Gamon, Andy Suyker, **Eric North**. \$150,000
- 2018 Professional development travel grant. University of Nebraska-Lincoln. \$500
- 2017-2020 Bachelor of Science in regional and community forestry. PI: **Eric North**; Co-PI: John Carroll, Roch Gaussoin, Scott Josiah, United States Forest Service. \$413,000

- 2016 Urban and community forestry programming grant. PI: Gary Johnson; Cooperating Investigator: **Eric North**. Minnesota Department of Natural Resources. \$165,000
- 2016 Graduate student professional development. CFANS Alumni Society. \$500
- 2016 Campus tree tour. Institute on the Environment mini grant. PI: Stan Hokanson; Contributor: **Eric North**. \$3,000
- 2016 ISA International Conference Scholarship. Minnesota Society of Arboriculture. \$1,000
- 2016 Student travel grant. International Society of Arboriculture. \$500
- 2014-2016 Catherine S. Hill fellowships in forest resources. \$14,000
- 2014 Startup project funding – Brewing a Better Forest. People for Parks. \$5,000
- 2012-2013 Josephine and Waldemore Mohl and Catherine S. Hill Fellowships in forest resources. \$14,625 + tuition

AWARDS

- 2020 Holling Family Award for Teaching Excellence in Agriculture and Natural Resources. University of Nebraska-Lincoln.
- 2020 College of Agricultural Sciences and Natural Resources Outstanding Teaching Award Nominee. University of Nebraska-Lincoln.
- 2018 College of Agricultural Sciences and Natural Resources Outstanding Teaching Award Nominee. University of Nebraska-Lincoln.
- 2016 Minnesota Community Forestry Leadership Award. Minnesota Shade Tree Advisory Committee.
- 2016 College of Food, Agricultural, and Natural Resources Undergraduate Teaching Award Nominee. University of Minnesota-Twin Cities.
- 2014 Innovation Award for Brewing a Better Forest. Minnesota Shade Tree Advisory Committee.

SELECTED PRESENTATIONS

Invited Talks

- 2020 **North, E.A.** Photosynthesis: Why does it matter? Rochester Arborist Workshop, Rochester, MN, February 20.
- 2020 **North, E.A.** Prescription pruning. Nebraska Arborist Association Annual Conference. Lincoln, NE, January 28.
- 2019 **North, E.A.** Tree biology for arborists. 12th Annual International Arboriculture Summit-Hong Kong, Hong Kong, November 13-16.
- 2019 **North, E.A.** N A.W. D'Amato, M. Russell, and G. Johnson. Tree response to sidewalk construction. 12th Annual International Arboriculture Summit-Hong Kong, Hong Kong, November 13-16.
- 2019 **North, E.A.** The value of trees. Great Plains Tree Symposium, Nebraska Forest Service, McCook, NE, October 18.

- 2019 **North, E.A.** Radial Growth Ring Analysis of Urban Trees. Texas Annual Tree Conference, Waco, TX, September 25-26.
- 2019 **North, E.A.** Growing trees in the prairie: Creating an urban forestry program. Arboriculture & Urban Forestry Educators' Symposium & Summit, Morton Arboretum, Lisle, IL, May 19-22.
- 2019 **North, E.A.** It's not easy being green. Minnesota Shade Tree Short Course. Arden Hills, MN, March 18.
- 2019 **North, E.A.** Tree ring analysis in urban areas. North Dakota Arborist Conference. Fargo, ND. January 30.
- 2019 **North, E.A.** The cost of low community forest diversity. Nebraska Arborist Association Annual Conference. York, NE, January 21.
- 2018 **North, E.A.** Urban forest diversity. Trees, People, and Towns Conference, Loveland, CO, June 29-30.
- 2018 **North, E.A.** If trees could scream: How trees respond to people. Minnesota Shade Tree Short Course, Arden Hills, MN, March 14.
- 2018 **North, E.A.** Community tree diversity: Looking beyond EAB. Iowa Shade Tree Short Course, Ames, IA, February 22.
- 2017 **North, E.A.** To climb or not to climb: Impacts of EAB on the stability of ash. Minnesota Society of Arboriculture, Saint Paul, MN, November 7.
- 2017 **North, E.A.** Resources and database for identifying and selecting trees. Nebraska Natural Legacy Program, Nebraska City, NE, October 10.
- 2017 **North, E.A.** Tree, not a tree: An introduction to tree ID. Minnesota Shade Tree Short Course, Arden Hills, MN, March 15.
- 2017 **North, E.A.** How trees work: A look at tree biology. Minnesota Master Naturalist Program. Forest Lake, MN, March 4.
- 2017 **North, E.A., A.W. D'Amato, M. Russell, and G.R. Johnson.** Tree rings and urban tree resistance and resilience to construction and drought. Wisconsin Arborist Association and Wisconsin Department of Natural Resources Annual Conference, Green Bay, WI, February 20.
- 2017 **North, E.A.** Urban dendrochronology: Tree rings as a diagnostic tool. Wisconsin Arborist Association and Wisconsin Department of Natural Resources Annual Conference, Green Bay, WI, February 20.
- 2016 **North, E.A.** Tree selection with a changing climate. Master Gardener State Conference, University of Minnesota Landscape Arboretum, Chaska, MN, June 25.
- 2016 **North, E.A.** Tree rings as a diagnostic tool for arborists. Minnesota Shade Tree Advisory Committee Forum, Saint Louis Park, MN, June 16.
- 2016 **North, E.A.** Complex answers to simple questions: How trees work. University of Minnesota Rochester Connects, UMR Connects Professional Speaker Series, Rochester, MN, May 24.
- 2016 **North, E.A.** Reading rings: The stories trees tell. Minnesota Master Naturalist Gathering Partners Annual Conference, Winona, MN, May, 21.

- 2016 **North, E.A.** From soil to air: How trees move and manage water. University of Minnesota Landscape Arboretum, Earth Day Event, April 22.
- 2016 **North, E.A.** Tree rings and tree growth. Anoka County Master Gardener Home Landscaping and Garden Fair, Andover, MN, April 9.
- 2016 **North, E.A.** From sapwood to heartwood: Tree rings as a diagnostic tool. Minnesota Shade Tree Short Course, Arden Hills, MN, March 16.
- 2016 **North, E.A.** Applied tree biology. Northern Green Expo, Minneapolis, MN, January 13.
- 2015 **North, E.A.** Life of a tree. Sherburne County Soil and Water Conservation District Conservation Volunteer Appreciation, Elk River, MN, November 5.
- 2015 **North, E.A.** Your toaster has a manual, so why not your tree? Isanti County Master Gardner Burst into Spring Summer Workshop, Cambridge, MN, March 21.
- 2015 **North, E.A.** Trees from around the world. Minnesota Green Corps Volunteer Appreciation Dinner, Glencoe, MN, August 15.
- 2015 **North, E.A.** Advanced tree biology. Minnesota Shade Tree Short Course, Arden Hills, MN, March 18.
- 2014 **North, E.A.** Tree physiology for tree care professionals. Minnesota Society of Arboriculture Annual Fall Conference, Chanhassen, MN, October 3, 2014.
- 2014 **North, E. A., G.R. Johnson, and T. E. Burk.** Trunk flare diameter predictions. Minnesota Shade Tree Short Course, Arden Hills, MN, March 19.
- 2014 **Roos, S. and E.A. North.** Street tree design: A focus on diversity. Minnesota Shade Tree Short Course, Arden Hills, MN, March 18.
- 2014 **North, E. A.** Using trunk flare to inform planting & design of street trees. Minnesota Shade Tree Advisory Committee, Saint Paul, MN, January 16.
- 2013 **North, E.A.** Where trees come from. University of Minnesota School of Music Rhapsody in Green, Saint Paul, MN, October 24.
- 2013 **North, E.A.** Technology for urban forestry. Minnesota Shade Tree Short Course, Arden Hills, MN, March 12.

Accepted Presentations

- 2019 **North, E.A.** An urban forester in Botswana: Recruiting the next generation. International Society of Arboriculture Annual Conference. Knoxville, TN, August 11-14.
- 2018 **North, E.A., Herbst, G.** This American forest. Partners in Community Forests. Irvine, CA. November 7-8.
- 2018 **North, E.A.** Planting for the future: Diversity in urban forests. Partners in Community Forests. Irvine, CA. November 7-8.
- 2018 **North, E.A., A.W. D'Amato, and M. Russell.** Comparison of performance metrics for street and park trees in urban forests. Society of American Foresters Annual Conference. Portland, OR, October 3-7.
- 2018 **North, E.A.** The past is prologue for urban forest diversity. International Urban Forestry Congress 2018, Vancouver, BC, September 30 – October 3.

- 2018 **North, E.A.**, A.W. D’Amato, and M. Russell. Urban sites and tree architecture as indicators of tree performance. International Society of Arboriculture Annual Conference, Columbus, OH, August 5-8.
- 2017 **North, E.A.**, A.W. D’Amato, M. Russell, and G.R. Johnson. The influence of sidewalk replacement on urban street tree growth. International Society of Arboriculture Annual Conference, Washington, D.C., August 2.
- 2017 **North, E.A.** Trees as witnesses: Two case studies of forensic tree-ring analysis in legal disputes. International Society of Arboriculture Annual Conference, Washington, D.C., July 31.
- 2016 **North, E.A.** From tree inventories to free beer: Broadening community involvement in urban forestry. 2016 Partners in Community Forestry Conference, Indianapolis, IN, November 17.
- 2016 **North, E. A.** Urban Tree Rings: Tree resilience and longevity. International Society of Arboriculture Annual Conference, Fort Worth, TX, August 17.
- 2014 **North, E. A.**, G. R. Johnson, and T. E. Burk. When immovable trees meet irresistible infrastructure. International Society of Arboriculture Annual Conference, Milwaukee, WI, August 4.

SELECTED WORKSHOPS

- 2020 Missouri Department of Conservation Arborist Training. Springfield, MO, January 7-8.
- 2019 Your community forestry physical. Texas Annual Tree Conference, Waco, TX, September 25-26.
- 2019 Extension educators training. University of Nebraska-Lincoln, Lincoln, NE, June 11
- 2019 Tree management and maintenance. Master Gardener Program, University of Nebraska-Lincoln, Lincoln, NE
- 2016 Specialty pruning: Espalier and pollarding. Minnesota Shade Tree Advisory Committee Field Day, Saint Paul, MN, August 24. (*Organizer*)
- 2016 Planting, pruning, and watering: The first year of tree maintenance. Minnesota Turf and Ground Foundation Field Day, Saint Paul, MN, August 11.
- 2016 Young and small tree pruning. Minnesota Tree Care Advocate, Saint Paul, MN, April 16.
- 2016 Winter tree identification. Wetland Professionals Association, Saint Paul, MN, February 2.
- 2016 Decay and structural integrity in trees. Maier Tree & Lawn, a Davey Company, Rochester, MN, January 25.
- 2015 Introduction to tree identification. Minnesota Shade Tree Short Course Summer Workshop, Saint Paul, MN, May 30. (*Organizer*)
- 2015 Tree care and maintenance. Minnesota Master Naturalists, Saint Paul, MN, April 25.
- 2015 Midland Hills Pruning Workshop. Minnesota Turf and Grounds Foundation, Saint Paul, MN, April 2.

- 2014 Seven deadly tree defects. Rochester Arborist Workshop, Rochester, MN, July 18,
 2014 Understanding tree roots. Maier Tree & Lawn, a Davey Company, Rochester,
 MN, January 6.
 2013 Tree physiology. Maier Tree & Lawn, a Davey Company, Rochester, MN,
 December 9.

EXTENSION & OUTREACH EXPERIENCE

- 2017-present University of Nebraska-Lincoln
- **Nebraska Wildlife Rehab:** Led high school students in urban forestry tree measurement and tree climbing
 - **Lincoln Garden Club:** Tree care and management
 - **University of Nebraska State Museum Science Café:** Interactive discussion of science in urban forests and tree-themed trivia
 - **Latins for Natural Resources student club:** Introduction to backpacking
 - **Boy Scouts of America Nebraska:** Tree identification
 - **University of Nebraska-Lincoln Preschool:** Trees and careers in trees
 - **Friends of Maxwell Arboretum:** Climbing demonstrations and “Ask an Arborist” booth for Lincoln community – bi-annual festival
 - **Nebraska Conservation Education Fund AmeriCorps Program:** Educated rural Nebraska communities in preparation for emerald ash borer
 - **Urban forestry newsletter:** Disseminate events, conferences, research, and news on urban forestry and arboriculture related issues
- 2014-2017 University of Minnesota-Twin Cities
- **Community Gravel Beds:** Technical assistance on gravel beds construction and use for tree root development
 - **Minnesota Department of Natural Resources Tree Inspector certification program:** Educational workshops and examinations – multiple annual workshops
 - **Minnesota Shade Tree Advisory Committee, Minnesota Tree Care Advocate and Citizen Pruner programs:** Technology transfer and training
 - **Minnesota Pollution Control Agency, Green Corps:** Mentorship and training in urban and community forestry

SERVICE TO THE UNIVERSITY

- 2019 **Faculty search committee chair.** Assistant/Associate Professor position, School of Natural Resources, University of Nebraska-Lincoln
- 2019-present **Faculty advisor.** Forestry Club student organization, School of Natural Resources, University of Nebraska-Lincoln

- 2019-present **Faculty committee member.** Department of Landscape Architecture, University of Nebraska-Lincoln
- 2017-present **Member.** Teaching and Learning Discussion Group, University of Nebraska-Lincoln
- 2017-present **Committee member.** Undergraduate Curriculum Committee, School of Natural Resources, University of Nebraska-Lincoln
- 2018-2019 **Committee member.** Undergraduate Curriculum Committee, College of Agricultural Science and Natural Resources, University of Nebraska-Lincoln
- 2018 **Faculty search committee member.** Assistant/Associate Professor position, School of Natural Resources, University of Nebraska-Lincoln
- 2017 **Faculty search committee member.** Department Head, Department of Forest Resources, University of Minnesota-Twin Cities
- 2016 **Committee member.** Employee Engagement Committee, University of Minnesota, Department of Forest Resource

SERVICE TO THE PROFESSION

- 2019-present **Editorial board member.** Arboriculture & Urban Forestry and Arborist News, International Society of Arboriculture
- 2018-present **Committee member.** Credentialing Council, International Society of Arboriculture
- 2018-present **Committee member.** Conference Planning Committee, International Society of Arboriculture
- 2017-present **Reviewer.** Arboriculture & Urban Forestry
- 2017-present **President, president-elect, vice president.** Arboricultural Research and Education Academy
- 2017-present **Committee member.** Science and Research Committee, International Society of Arboriculture
- 2016 **Committee member.** Program and Education Committee, Minnesota Society of Arboriculture
- 2016 **Committee member.** Legislative-Citizen Commission on Minnesota Resources Grants Steering Committee, Minnesota Department of Natural Resources
- 2015-present **Reviewer.** Urban Forestry & Urban Greening
- 2012-2016 **Member, Co-chair.** Minnesota Shade Tree Short Course Steering Committee

SERVICE TO THE COMMUNITY

- 2019-present **Steering committee member.** Project Learning Tree. Nebraska
- 2017-present **Chair, committee member.** Community Forestry Advisory Board, Lincoln, NE
- 2017-present **Board member.** Friends of Maxwell Arboretum, Lincoln, NE
- 2015-2016 **Board member.** Tree Advisory Panel, City of Saint Paul, MN
- 2014-present **Co-founder, board member.** Brewing a Better Forest, 501(c)(3)
- 2012-2016 **Board member, technology subcommittee chair, executive committee member.** Minnesota Shade Tree Advisory Committee

PROFESSIONAL EXPERIENCE

- 2016 **Consultant**, Heritage Shade Tree Consultants, Mendota Heights, MN
- 2016 **Consultant**, TreeBiz, Inc., Minneapolis, MN
- 2015 **Consultant**, Rochester Golf and Country Club, Rochester, MN
- 2015 **Consultant**, Genus Landscape Architects, Des Moines, IA
- 2012 **Urban forestry outreach specialist**, Minneapolis Park and Recreation Board, Minneapolis, MN
- 2011 **Tree inspector**, City of Saint Paul Forestry Department, Saint Paul, MN

MEDIA COVERAGE

- 2020 What's a 'Tree Husker'? Students at UNL can now find out. Omaha World Herald, February 25.
- 2020 New forestry major coming to the University of Nebraska. 1011 Now KOLN/KGIN, February 17.
- 2019 East campus an outdoor classroom for dendrology students. Lincoln Journal Star, October 17.
- 2019 Hiring an arborist. Backyard Farmer, PBS, August 7.
- 2019 Digging deeper in urban forestry. Backyard Farmer, PBS, July 29.
- 2019 Is young Groot the same as the first? And just where is his brain? A UNL professor weighs in. Omaha World-Herald, April 28.
- 2019 IANR Vice Chancellor Boehm shares research focused on tree growth in urban areas, KRVN radio, April 24.
- 2019 What is Groot's growth rate, scientifically speaking? How tall could he get? SYFY Wire, April 22.
- 2018 Let's diversify community forests. Tree City USA Bulletin
- 2018 School of Natural Resources works to establish forestry major. The Daily Nebraskan, November 12.
- 2018 You Post It, We Report It: South Dakota & UNL tree climbing. KLKN-TV, July 23.
- 2018 City wants to diversify street trees to avoid decimation by disease. Lincoln Journal Star, April 26.
- 2018 NCEF conducts presentation on issues surrounding emerald ash borer. The Columbus Telegram, April 20.
- 2017 Trees get degrees, UNL professor proposes new major. The Daily Nebraskan, September 21.
- 2017 Professor hopes to interest UNL students in being "Treehuskers". Lincoln Journal Star, September 13.
- 2017 How Does Sidewalk Replacement Impact Tree Growth? Alliance for Community Trees, April 24.

- 2017 For urban foresters, citizen involvement builds more than data sets. Landscape Architecture Magazine, February.
- 2016 3 Solutions to winter tree injury. Farm Press, March.
- 2015 Dying Dinkytown trees to come down. Minnesota Daily, April 9.
- 2012 The importance of watering street trees in Minneapolis, MN. The Journal MPLS, July 11.
- 2012 University of Minnesota QR coding campus trees. Minnesota Daily, April 30.

PROFESSIONAL MEMBERSHIPS

- 2019-present Tree Climbers International
- 2017-present Midwest Chapter of the International Society of Arboriculture
- 2017-present Nebraska Arborist Association
- 2015-present Arboricultural Research and Education Academy
- 2012-present International Society of Arboriculture
- 2012-2017 Minnesota Society of Arboriculture

CERTIFICATIONS

- 2012-present International Society of Arboriculture Certified Arborist #MN-4483A
- 2011-present Minnesota Certified Tree Inspector #20104241
- 2015-2017 International Society of Arboriculture Certified Exam Proctor