

Eric A. North

3310 Holdrege Street, 720 Hardin Hall
Lincoln, Nebraska 68583
(402) 472-3838, eric.north@unl.edu
www.notesontrees.com

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
- Lead course and curriculum development for a new undergraduate degree program in Regional and Community Forestry
 - Develop and teach four new urban forestry courses: Dendrology – Study and Identification of Trees and Shrubs, Tree Biology, Arboriculture – Maintenance and Selection of Landscape Trees, and Green Space and Urban Forestry Management (Graduate/Undergraduate)

TEACHING EXPERIENCE

University of Nebraska-Lincoln

- Dendrology: Study and Identification of Trees and Shrubs, (Scheduled Fall 2018, Fall 2017)
- Tree Biology (Scheduled Fall 2018)
- Study Abroad – Botswana: Wildlife Conservation (Summer 2018)
- Arboriculture: Maintenance and Selection of Landscape Trees (Spring 2018)
- Graduate Independent Research (Spring 2018)

University of Minnesota-Twin Cities

- Issues in the Environment (Spring 2016)
- Dendrology: Identification of Trees and Shrubs (Fall 2013, Fall 2014, Fall 2015, Fall 2016)
- Arboriculture: Selection and maintenance of trees (Spring 2013, Spring 2014, Spring 2015, Spring 2016)
- Urban Forest Management: Managing Greenspaces for People (Spring 2014, Spring 2015, Spring 2016; graduate and undergraduate students)
- Orientation and Information Systems (Fall 2011)

RESEARCH EXPERIENCE

- 2017-Present Assistant Professor of Practice, University of Nebraska-Lincoln
- Collaboration with Nebraska Forest Service on planting depth study
- 2014-2017 Research Fellow, University of Minnesota-Twin Cities
- Collaborated with Minneapolis Park and Recreation Board on storm damage and failure of street and park trees
 - Investigated survival and growth of bare root trees held in community gravel beds
- 2012-2014 Graduate Research Fellow, University of Minnesota-Twin Cities
- Led research in urban tree biometrics, modeling crown and trunk flare diameters for Minnesota street trees; developed predictive models using regression techniques for tree morphological characteristics
 - Analyzed urban forest inventory data to identify species trends

GRANTS AND FELLOWSHIPS

- 2018 Professional Development Travel Grant. University of Nebraska-Lincoln. \$500
- 2017-Present Bachelor of Science in Regional and Community Forestry. PI: **Eric North, Ph.D.**; Co-PI: John Carrol, Ph.D., Roch Gaussoin, Ph.D., Scott Josiah, Ph.D. 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. Principal Investigator: Stan Hokanson, Ph.D.; Contributor: **Eric North**. \$3,000
- 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

PUBLICATIONS

Peer-Reviewed

- In-review* **North, E. A.**, A. W. D'Amato, M. B. Russell. Performance metrics for street and park trees in urban forests. *Journal of Forestry*. (*Submitted October 2017, R & R February 2018*)
- 2018 Banks, N., **E.A. North**, G.R. Johnson. An analysis of agreement between volunteer- and researcher-collected urban tree inventory data. *Arboriculture & Urban Forestry*. 44(2). 73-85.
- 2017 **North, E. A.**, A. W. D'Amato, M. B. Russell, G. R. Johnson. 2017. The influence of sidewalk replacement on urban street tree growth. *Urban Forestry & Urban Greening*. 24:116-124. DOI: 10.1016/j.ufug.2017.03.029
- 2014 **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. *Urban Forestry & Urban Greening*. 14(1): 65-71.

Professional

- 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.

SELECTED PRESENTATIONS

Research

- 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*. (ACCEPTED)

- 2018 **North, E.A.** If trees could talk: The science of reading tree rings. Agronomy and Horticulture Departmental Seminar Series, University of Nebraska-Lincoln, February 2. (INVITED)
- 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.**, 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.
- 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.
- 2014 **North, E. A.**, G.R. Johnson, and T. E. Burk. Trunk flare diameter predictions. Minnesota Shade Tree Short Course, Arden Hills, MN, March 18-19. (INVITED)
- 2014 **North, E. A.** Using trunk flare to inform planting & design of street trees. Minnesota Shade Tree Advisory Committee, Saint Paul, MN, January 16. (INVITED)
- 2012 **North, E. A.**, G.R. Johnson, and T. E. Burk. Modeling urban tree morphology and infrastructure conflicts. University of Minnesota Department of Forest Resources Seminar Series, Saint Paul, MN, May 16.

Professional and Outreach

- 2018 **North, E.A.** The past is prologue for urban forest diversity. International Urban Forestry Congress 2018, Vancouver, BC, October 2. (ACCEPTED)
- 2018 **North, E.A.** Urban Forests Diversity. Trees, People, and Towns Conference How trees respond to people. Minnesota Shade Tree Short Course, Loveland, CO, June 29. (INVITED)
- 2018 **North, E.A.** If trees could scream: How trees respond to people. Minnesota Shade Tree Short Course, Arden Hills, MN, March 14. (INVITED)
- 2018 **North, E.A.** Community tree diversity: Looking beyond EAB. Iowa Shade Tree Short Course, Ames, IA, February 22. (INVITED)
- 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. (INVITED)
- 2017 **North, E.A.** Resources and database for identifying and selecting trees. Nebraska Natural Legacy Program, Nebraska City, NE, October 10. (INVITED)
- 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.

- 2017 **North, E.A.** Tree Not a Tree: An Introduction to tree ID. Minnesota Shade Tree Short Course, Arden Hills, MN, March 14-15. (INVITED)
- 2017 **North, E.A.** How trees work: A look at tree biology. Minnesota Master Naturalist Program. Forest Lake, MN, March 4. (INVITED)
- 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. (INVITED)
- 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.** Tree selection with a changing climate. Master Gardener State Conference, University of Minnesota Landscape Arboretum, Chaska, MN, June 25. (INVITED)
- 2016 **North, E.A.** Tree rings as a diagnostic tool for arborists. Minnesota Shade Tree Advisory Committee Forum, Saint Louis Park, MN, June 16. (INVITED)
- 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. (INVITED)
- 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. (INVITED)
- 2016 **North, E.A.** Tree rings and tree growth. Anoka County Master Gardener Home Landscaping and Garden Fair, Andover, MN, April 9. (INVITED)
- 2016 **North, E.A.** From sapwood to heartwood: Tree rings as a diagnostic tool. Minnesota Shade Tree Short Course, Arden Hills, MN, March 15-16. (INVITED)
- 2016 **North, E.A.** Applied tree biology. Northern Green Expo, Minneapolis, MN, January 13. (INVITED)
- 2015 **North, E.A.** Life of a tree. Sherburne County Soil and Water Conservation District Conservation Dinner and Volunteer Appreciation, Elk River, MN, November 5. (INVITED)
- 2015 **North, E.A.** The Importance of tree canopy. Longfellow neighborhood association's Environment & Transportation Committee, Minneapolis, MN, September, 22. (INVITED)
- 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. (INVITED)
- 2015 **North, E.A.** Trees from around the world. Minnesota Green Corps Volunteer Appreciation Dinner, Glencoe, MN, August 15. (INVITED)
- 2015 **North, E.A.** Advanced tree biology. Minnesota Shade Tree Short Course, Arden Hills, MN, March 17-18. (INVITED)

- 2014 **North, E.A.** Tree physiology for tree care professionals. Minnesota Society of Arboriculture Annual Fall Conference, Chanhassen, MN, October 3, 2014. (INVITED)
- 2014 Roos, S. and **E.A. North**. Street tree design: A focus on diversity. Minnesota Shade Tree Short Course, Arden Hills, MN, March 18-19. (INVITED)
- 2013 **North, E.A.** Where trees come from. University of Minnesota School of Music Rhapsody in Green, Saint Paul, MN, October 24. (INVITED)
- 2013 **North, E.A.** Technology for urban forestry. Minnesota Shade Tree Short Course, Arden Hills, MN, March 12. (INVITED)

OUTREACH AND PROFESSIONAL EXPERIENCE

- 2017-Present **Assistant Professor of Practice**, University of Nebraska-Lincoln
- Partner with Nebraska Conservation Education Fund – AmeriCorps Program to provide education to rural Nebraska communities in preparation for emerald ash borer
 - Work with local Boy Scouts of America troop to engage scouts in tree identification and the benefits of urban forests
 - Provide technical support to Home Owners Associations regarding tree tours and pruning
 - Develop urban forestry outline newsletter to disseminate events, conferences, research, and news on urban forestry and arboriculture related issues
 - Assist University Landscape Services in facilitating campus tree tours
- 2014-2017 **Research fellow**, University of Minnesota-Twin Cities
- Collaborated with Minnesota Department of Natural Resources to manage state Tree Inspector certification program through development and delivery of educational workshops and examinations
 - Managed external communication and website content for Minnesota Shade Tree Advisory Committee, Minnesota Tree Care Advocate, and Citizen Pruner programs as part of technology transfer to increase capacity and improve management of Minnesota’s urban forests
 - Provided mentorship and training to urban and community forestry members of the Minnesota Green Corps program in partnership with the Minnesota Pollution Control Agency
 - Worked with local non-profit, Tree Trust, to provide technical assistance on a volunteer-run tree inventory initiative
 - Developed the Community Engagement and Preparedness program with lead investigator to assist communities in assessing their vulnerability to emerald ash borer and future urban forestry issues

- 2016 **Consultant**, Heritage Shade Tree Consultants, Mendota Height, MN
 - Construction damage assessment via tree ring analysis
- 2016 **Consultant**, TreeBiz, Inc., Minneapolis, MN
 - Municipal tree inspections
- 2015 **Consultant**, Rochester Golf and Country Club, Rochester, MN
 - Herbicide influence on tree growth and function
- 2015 **Consultant**, Genus Landscape Architects, Des Moines, IA
 - Tree condition and growth assessment
- 2012 **Urban forestry outreach specialist**, Minneapolis Park and Recreation Board, Minneapolis, MN
 - Created and delivered educational content to engage diverse youth communities in urban forestry
- 2011 **Tree Inspector**, City of Saint Paul Forestry Department, Saint Paul, MN
 - Identified diseases and hazardous trees for removal
 - Worked with property owners to address issues with publicly managed trees

SERVICE TO THE UNIVERSITY

- 2018 **Thesis committee member**. Allie Schiltmeyer, University of Nebraska-Lincoln
- 2017-Present **Committee member**. Undergraduate Curriculum Committee, University of Nebraska-Lincoln, School of Natural Resources
- 2017 **Thesis committee member**. Maggie Harthoorn, University of Nebraska-Lincoln
- 2016 **Committee member**. Employee Engagement Committee, University of Minnesota, Department of Forest Resource

SERVICE TO THE PROFESSION

- 2018 **Committee member**. Conference Planning Committee, International Society of Arboriculture
- 2018 **Reviewer**. Arboriculture & Urban Forestry
- 2017-Present **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 and Urban Greening
- 2012-2016 **Co-chair**. Minnesota Shade Tree Short Course Steering Committee

SERVICE TO THE COMMUNITY

- 2017-Present **Chair.** 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
2012-2016 **Board member, technology subcommittee chair, executive committee member.** Minnesota Shade Tree Advisory Committee

SELECTED WORKSHOPS

- 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.

AWARDS

- 2018 College of Agricultural Sciences and Natural Resources Outstanding Teaching Award Nominee
2017 Minnesota Community Forestry Leadership Award
2016 College of Food, Agricultural, and Natural Resources Undergraduate Teaching Award Nominee

MEDIA

- 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.
- 2010 One-of-a-kind tree survey begins in Morris. Steven County Times, July 13.

PROFESSIONAL MEMBERSHIPS

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

CERTIFICATIONS

- International Society of Arboriculture Certified Arborist #MN-4483A
- International Society of Arboriculture Certified Exam Proctor
- Minnesota Certified Tree Inspector #20104241