

Joseph N. Orefice, Ph.D.

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Curriculum Vita

CURRENT POSITION

Yale University, School of Forestry & Environmental Studies, New Haven, Connecticut, USA
Lecturer and Director of Forest & Agricultural Operations August 2018 - Present

- Direct forest resources operations on Yale F&ES School Forests
- Develop and manage agricultural operations on School Forests
- Lecturer in Temperate Agroforestry and Forest Management

PROFESSIONAL EXPERIENCE

Hidden Blossom Farm Union, CT www.hiddenblossomfarm.com

Owner/Operator 2018-present

- Practice agroforestry in the forms of silvopasture, raise grass-fed beef cattle in diversified pastures
- Produce vegetables, figs, and fig trees in greenhouses and outdoor systems
- Perform woodlot management and manage silvicultural treatments

Cornell University, Department of Natural Resources, Lake Placid, New York, USA

The Henry Uihlein II & Mildred A. Uihlein Director of the Uihlein Forest and Northern New York Maple Specialist March 2017 – July 2018

- Develop and conduct education and research programs relevant to the maple products industry
- Direct operations of Cornell's maple research and education forest and facilities in Lake Placid, New York
- Conduct research and education into maple and birch syrups on Cornell's 6,000 tap sugarbush
- Supervise permanent and seasonal employees in all aspects of the management of an agroforest
- Collaborate with extension educators to support and advance maple and agroforestry production

Paul Smith's College, Department of Forestry Paul Smiths, New York, USA

Associate Professor of Forestry August 2009-May 2017

Forestry Program Director August 2015 - June 2016

- Advisor to the student chapter of the Society of American Foresters
- Forest Advisory Committee, Campus Lands Committee, Diversity Council
- Co-founder of the North American Logger Training School at Paul Smith's College (recipient of over \$600,000 of New York State Funding 2014-2016)
- Courses taught: Advanced Silviculture, Wood Properties and Production Processes, Dendrology, Forest Ecology, Timber Harvesting, Forest Mensuration II, Sustainable Agriculture, Capstone Research Project, Forest Field Ecology, Adirondack Field Ecology, Adirondack Woodsmen's School, Integrated Sustainability Seminar.
- Coach to the rock climbing team, 2012-2014

North Branch Farm Saranac, New York, www.adkfigs.com

Owner/Operator 2010- 2018

- Practice agroforestry in the forms of silvopasture, forest farming, and windbreaks
- Raise grass-fed beef cattle in diversified pastures, produce vegetables, figs, and fig trees in greenhouses and outdoor systems, perform woodlot management and manage silvicultural treatments
- Plan and manage all aspects of business on the 76-acre farm, from equipment repairs to marketing

State of Connecticut DEP, Division of Forestry Western District, Connecticut

State Lands Management Forest Technician May 2006-August 2009(Seasonal)

- Conducted timber sale layout and marking, inventory, timber stand improvement
- Planned forest management, managed forest recreation
- Performed property boundary maintenance and wildland fire suppression

Consulting Forester Harwinton, Connecticut

Self Employed 2007- 2009

- Classified forestland for current use taxation; conducted management planning, timber inventory, boundary work

Yale School of Forestry and Environmental Studies New Haven, Connecticut

Yale-Myers summer MODs Head Cook August 2011

Summer Module Instructor August 2008

- Instructed first year Master's degree students to ecosystem management, measurements, analysis, and interpretation during week long outings at Yale-Myers Forest; caused no food related sicknesses

The Temperate Forest Foundation Portland, Oregon

Summer Research and Education Intern June 2008-August 2008

- Updated and expanded the foundation's online information library; familiarized K-12 teachers with forest resources and management

University of Maine Witter Farm Orono, Maine

Field Work Assistant September 2003- May 2007

- Operated and repaired agricultural machinery; performed carpentry and general farm maintenance; cared for and fed beef and dairy cattle, sheep, and horses

Forestland Consultants, LLC Sharon, Connecticut

Consulting Forester, May 2005-August 2005

- Conducted timber harvest inventories, layouts, monitoring, and close-outs; conducted invasive species management; researched, located and marked property boundaries

University of Maine Orono, Maine

Student Fieldwork Supervisor, June 2004-September 2004

- Researched and located historic property boundaries, conducted forest inventory and map preparation to compare forest vegetation with historic land use on a remote and uninhabited island off the coast of Maine

Camp's Greenhouse and Nursery Harwinton, Connecticut

Horticulturist April 2000-March 2004

- Cultivated and maintained annual and perennial plants as well as shrub and tree stock

EDUCATION

University of New Hampshire, Department of Natural Resources Durham, New Hampshire

Doctor of Philosophy in Natural Resources and Environmental Studies (Ph.D.), May 2015

- Research: Silvopasture systems in the Northeastern United States
- Relevant Coursework: Sampling Design, Biogeochemistry, Biological Statistics II, Social Science Research Methods, The Real Dirt, Writing Seminar

Yale University, School of Forestry & Environmental Studies New Haven, Connecticut

Master of Forestry (MF), May 2009

- Research: Hardwood silviculture and forest carbon science
- Relevant Coursework: Managing Resources, Analysis of Silvicultural Problems, Invasive Species Biology and Management, Financial Analysis for Land Management, Boreal Ecosystems, Local Environmental Law and Land Use Practice, Leadership in Natural Resources, Tropical Forest Ecology, Global Resources and the Environment, Fire Science and Policy, Forest Carbon Science, Taxonomy of Trees

University of Maine Orono, Maine

Bachelor of Science in Forestry, Minor: Surveying Engineering Technology, May 2007

- Summa Cum Laude

SELECTED HONORS AND GRANTS

- **Keynote Speaker** Vermont Grazing Conference. Fairlee, VT. January 17, 2015. “Silvopasturing in the Northeast.”
- **Outstanding Faculty Award** Paul Smith’s College. May 2014. Student selected.
- **Northeastern States Research Cooperative** Theme 1: Sustaining Productive Forest Communities: Balancing Ecological, Social, and Economic Considerations. 2014. \$36,427 grant
- **USDA Sustainable Agriculture Research and Education** Graduate Student Grant. 2013. \$14,904 awarded but I turned it down because I had already secured additional funding
- **USDA Sustainable Agriculture Research and Education** Farmer Grant. 2012. \$14,570
- **Largest Rutabaga** Great Adirondack Rutabaga Festival. 2011 and 2012.
- **Department of Forest Resources Student Leadership Award, Robert I. Ashman Award, Xi Sigma Pi Highest Ranking Student Award, Presidential Scholar Award** University of Maine. 2004-2007

PUBLICATIONS/WRITTEN WORK

Orefice, J. (2020). Silviculture, and why it belongs in a sugarbush. *Maple Syrup Digest*: 59(1): 24-29

Stewart, A., Coble, A., Contosta, A.R, Orefice, J.N., Smith, R.G., and H. Asbjornsen. (2019). Forest Conversion to silvopasture and open pasture: effects on soil hydraulic properties. *Agroforestry Systems* 00:000 (volume in press, available online).

Orefice, J., Smith, R.G., Carroll, J., Asbjornsen, H., and T. Howard. (2019). Forage productivity and profitability in newly-established open pasture, silvopasture, and thinned forest production systems. *Agroforestry Systems* 93: 51-65

Orefice, J. (2018). Preliminary Results on the Timing of Tapping of Maple and Birch in the Northern Adirondacks. *The Maple News* Jun/July 2018

Orefice, J. (2018). Three Years of 3/16” Research at the Uihlein Forest. *The Maple News* Jun/Jul 2018

Orefice, J. (2018). A heavy load: forestry and suicide. *The Forestry Source* 23(3): 17

Orefice, J., Smith, R.G., Carroll, J., Asbjornsen, H., and D. Kelting. (2017). Soil and understory plant dynamics during conversion of forest to silvopasture, open pasture, and heavily thinned woodlot. *Agroforestry Systems* 91: 729-739

Orefice, J. and J. Carroll. (2017). Silvopasture, it’s not a load of manure: differentiating between silvopasture and wooded livestock paddocks in the northeastern United States. *Journal of Forestry* 115(1): 71-72

Orefice, J., Carroll, J., Conroy, D., and L. Ketner. (2017). Silvopasture practices and perspectives in the northeastern united states. *Agroforestry Systems* 91: 149-160

Orefice, J., Carroll, J., and L. Ketner. (2016). Photo Guide to Northeastern United States Silvopasture. Available online at: <http://www.paulsmiths.edu/people/files/2016/06/Photo-Guide-to-Northeastern-United-States-Silvopasture-1lmctmt.pdf>

Covey, K.R., Orefice, J., and X. Lee. (2012). The physiological ecology of carbon science in forest stands. In “Managing Forest Carbon in a Changing Climate” (Eds., M.S. Ashton, M.L. Tyrrell, D. Spalding, and B. Gentry). Springer, Dordrecht Heidelberg London New York.

LEADERSHIP & CERTIFICATIONS

State of Connecticut Certified Forester #000795 with PA490 certification

Association for Temperate Agroforestry

- Board of Directors 2017 - 2019

Society of American Foresters

- Advisor to the Yale student chapter 2018- present and Paul Smith's College chapter, 2009 – 2017
- Chair of the National Agroforestry Working group, 2014 – 2017
- Connecticut Chapter Secretary/Treasurer, 2009

Game of Logging, Chainsaw Safety Levels 1, 2, and 3