

# Marlyse C. Duguid

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## Education

Ph.D. Yale University 2016  
*Joint degree with The New York Botanical Garden, Cullman Fellow*  
M.F. Yale School of Forestry and Environmental Studies 2010  
B.S. Horticulture, University of Connecticut 1999

## Professional Experience

Yale School of Forestry and Environmental Studies; <i>Thomas G. Siccama Lecturer in Environmental Field Studies and Associate Research Scientist</i>	January 2017–Present
Yale School Forests; <i>Director of Research</i>	January 2017–present
Yale School Forests; <i>Research Coordinator</i>	2011–2016
Wakerobin Consulting: Horticulture, Forestry, Conservation and Ecological Design; <i>President</i>	2008–2016
Oliver Nurseries, Fairfield, CT; <i>Perennial Manager</i>	2000–2008
Northeast Organic Farmers Association, CT chapter, <i>Organic Farm Inspector</i>	1999–2003

## Publications

<sup>^</sup> denotes masters student author, \* denotes undergraduate student author,

### In Review or Revision

Doroski, D., **Duguid, M.C.**, Ashton, M., *In review*. Forest patch size predicts seed bank composition in urban. *Applied Vegetation Science*.

Doroski, D., Ashton, M., **Duguid, M.C.**, *In review*. A regional meta-analysis of tree planting for the Northeastern United States: Insights into how current planting programs are driving the future urban forest. *Landscape and Urban Planning*.

Green, L. <sup>^</sup>; **Duguid, M.C.**, *In revision*. Vascular plant diversity of forested wetlands in southern New England. *Rhodora*.

### Peer-reviewed articles

Hanle, J. <sup>^</sup>, **Duguid, M.C.**, Ashton, M., *In press*. Legacy forest structure increases bird diversity and abundance in aging young forests. *Ecology and Evolution*.

Wikle, J. <sup>^</sup>, **Duguid, M.**, & Ashton, M. S., 2019. Legacy forest structures in irregular shelterwoods differentially affect regeneration in a temperate hardwood forest. *Forest Ecology and Management*, 454, 117650.

Mossman\*, A., Lambert, M. R., Ashton, M. S., Wikle, J. <sup>^</sup>, & **Duguid, M. C.**, 2019. Two salamander species respond differently to timber harvests in a managed New England forest. *PeerJ*, 7, e7604.

Lefland, A.B. <sup>^</sup>, **Duguid, M. C.**, Morin, R. S., & Ashton, M. S., 2018. The demographics and regeneration dynamic of hickory in second-growth temperate forest. *Forest Ecology and Management*, 419(420), 187-196.

Covey, K.R., Bueno de Mesquita C.P.\*, Oberle, B., Maynard, D.S., Bettigole, C., Crowther T.W., **Duguid, M.C.**, Steven, B., Zanne, A.E., Lapin M., Ashton, M.S., Oliver, C.D., Lee, X., & Bradford, M.A. 2016. Greenhouse Trace Gases in Deadwood. *Biogeochemistry* 130 (3): 215-226.

**Duguid, M.C.**, Morrell, E.H., Goodale, E., and Ashton, M.S. 2016. Changes in breeding bird abundance and species composition over a 20 year chronosequence following shelterwood harvests in oak-hardwood forests. *Forest Ecology and Management* 376: 221–230.

Crowther, T.W., Glick, H.B., Covey, K.R., Bettigole, C., Maynard, D.S., Thomas, S.M., Smith, J.R., Hintler, G., **Duguid, M.C.**, *et al.* 2015. Mapping tree density at a global scale. *Nature* 525: 201–205.

Covey, K.R., Carroll, C.J., **Duguid, M.C.**, Dorji, K., Dorji, T., Tashi, S., Wangdi, T., Ashton, M.S. 2015. Developmental dynamics following selective logging of an evergreen oak forest in the Eastern Himalaya, Bhutan: Structure, composition, and spatial pattern. *Forest Ecology and Management* 336: 163-173.

**Duguid, M.C.**, Ashton, M.S., 2013. A meta-analysis of the effect of forest management for timber on understory plant species diversity in temperate forests. *Forest Ecology and Management* 303: 81-90.

**Duguid, M.C.** Frey, B.R., Ellum, D.S., Kelty, M., Ashton, M.S., 2013. The influence of ground disturbance and gap position on understory plant diversity in upland forests of southern New England. *Forest Ecology and Management* 303: 148-159.

#### Book chapters

Chamberlain, J.; Davis, J.; **Duguid, M.C.**; et al. 2018. Chapter 2—Non-Timber Forest Products & Production. In: Assessment of nontimber forest products in the United States under changing conditions. Eds: Chamberlain, J. L., Emery, M. R., & Patel-Weynand, T. General Technical Report SRS-232, US Forest Service, Southern Research Station, 1-268.

Ashton, M.S., **Duguid, M.C.**, Barrett, A.L., Kristofer Covey, K. 2015. Yale School Forests, New England, United States of America, In: Forest Plans of North America, Eds: Siry, J., Bettinger, P., Merry, K., Grebner, D.L., Boston, K., and Cieszewski. Academic Press, New York. 482 pps.

Frey, B.R., Campbell, R., **Duguid, M.C.**, Ashton, M.S., 2013. A century of silvicultural research and demonstration in working forests. In: Camp, A.E., Irland, L.C., Carroll, C.J.W. (Eds.), Long-term Silvicultural & Ecological Studies: Results for Science and Management: Global Institute of Sustainable Forestry, Yale School of Forestry and Environmental Studies, New Haven, CT, pp. 15-30.

#### Non-technical articles, reports, and science communication

Poisonous Plants, Backpacker magazine, May 2017

A New England Orchid (*Cypripedium acaule*), Hidden Beauties in Newtown's Woods. Whispers in the Forest, newsletter of the Newtown Forest Association. 2014.

A Natural Resource Assessment, Botanical Inventory, and Management Plan for Greenleaf Preserve. Prepared for Newtown Forest Association. 2010.

Common Plants of the Quiet Corner, a Functional Field Guide. Yale University, New Haven, CT. co-authors Covey, K., Hodgman, T., and Spalding, D.. 2010

Symposium on the Future of Connecticut's Forests. YFF Review Vol 12, No. 1. Yale Forest Forum, Global Institute of Sustainable Forestry, Yale University, New Haven, Connecticut. Co-authors Paul, G., Cousins, S., Covey, K., Nerenberg, J., and Campbell, R.W. 2010.

Native Trees for Fall Foliage Interest. Oliver Nurseries Newsletter. 2010

Oliver Nurseries Seasonal Newsletter editor 2000-2008. Selected articles: Plant a Tree (Fall 2007), Invasive Plants (Winter 2004), Swamped; The right plants in a wet garden (Summer 2003), Focus on Ferns (Fall 2001), Woodland Blooms, Springtime in the Understory (Spring 2001).

## Teaching

### Courses—Instructor of record

The New England Forest (EVST 007)	Fall 2017, 2018, 2019
Temperate Woody Plant Taxonomy and Dendrology (F&ES 221/EVST 231)	Fall 2017, 2018, 2019
The Ecology, Economics, and Politics of Species Invasions, (F&ES 694)	Spring 2018, 2020
Indigenous Land Use Reading Seminar (F&ES 1168)	Spring 2018
Ecosystem Measurements for Conservation & Restoration (F&ES 741)	Spring 2019

### Field Modules & Internships

Field Ecology Internship at the Yale Myers Forest, Director	Summer 2017, 2018, 2019
Field-based learning, Yale F&ES Alumni	October 2017, 2018
Ecosystem Measurement Module, Yale-Myers Forest	Summer 2012 – 2015, 2017, 2018
University of New Hampshire Silviculture Field Trip	Fall 2012, 2013, 2014

### Teaching Fellowships

Research Analysis, Writing, and Communication	Spring 2014, Fall 2015
Natural History and Taxonomy of Trees	Fall 2014, 2015
Tropical Field Botany	Spring 2015
Principles in Applied Ecology: The Practice of Silviculture	Spring 2012 – 2014
Forest Dynamics: Growth and Development of Forest Stands	Fall 2012, 2013
Management Plans for Protected Areas	Fall 2009 – 2011
Invasive Species: Ecology, Policy, and Management	Spring 2010

### Guest Lectures

Field Science: Environment and Sustainability (EVST 234)	Fall 2013 – 2018
Forest Dynamics: Growth and Development of Forest Stands (F&ES 660)	Fall 2014, 2015, 2017
Ecology and Russian Culture (RUSS 355 / RSEE 355/HUMS 294/EVST 294)	Fall 2017

## Presentations, Invited Talks and Workshops

The Not-So-Secret Life of Trees. One World Lecture Series. Hartford, Connecticut. November 18<sup>th</sup> 2019.

In Land We Trust. REI Women's Speaker Series. West Hartford, Connecticut. June 10<sup>th</sup>. 2019.

Careers in Ecological Restoration Panel, Society of Ecological Restoration New England Regional Conference, New Haven, Connecticut. October 2018.

West River Restoration: Pond Lily Dam Removal and Restoration of Tidal Flow, Society of Ecological Restoration New England Regional Conference, New Haven, Connecticut. October 2018.

Selected participant in "Resources for Collections-Based Undergraduate Education" Faculty Mentoring Network (FMN) a NSF-supported project: Award Number: 1730526, PI/co-PI(s): Anna Monfils, Elizabeth Ellwood, Debra Linton, Lisa White, Project Title: RCN-UBE: Biodiversity Literacy in Undergraduate Education - Data Initiative (BLUE Data Network). May 2017

Connecticut Botanical Society: Plant identification walk at Yale-Myers Forest, May 2017

Urban Resources Initiative: Plant identification Workshop in College Woods, June 2017

Natural History and Plant Communities at Pond Lily Preserve, A dam removal and active vegetative restoration project, New Haven Land Trust and CFE/Save the Sound, October 2016, June 2017

Natural History and Ecology of Ericaceae. The Rhododendron Society – Connecticut Chapter. Windsor, Connecticut. January 2017.

Ecology in the Woodland. New England Hardy Plant Society – Connecticut Chapter. Wethersfield, Connecticut. November 2015.

Patterns and process in understory plant communities in a temperate second-growth forest of eastern North America. International Union of Forest Research Organizations (IUFRO) World Congress 2014. Salt Lake City, Utah.

Understory plant community response to forest management in a temperate second-growth forest. Society of American Foresters National Convention. Salt Lake City, Utah, October 2014.

The influence of ground disturbance and gap position on understory plant diversity in upland forests of southern New England. Society of American Foresters National Convention. Spokane, Washington, 2012.

The influence of ground disturbance and gap position on understory plant diversity. Connecticut Conference on Natural Resources, University of Connecticut. 2012.

Conservation in the Suburban Landscape. Fairfield County Regional Partnership Meeting. Highstead, Redding, Connecticut. June 2010.

Understory Plants and Plant Communities of Northeast Connecticut. Summer Research Seminar. Yale-Myers Forest, Eastford, Connecticut. July 2010

A Natural Resource Inventory, Botanical Inventory, and Management Plan for Greenleaf Preserve. Annual Meeting of the Newtown Forest Association. C.H. Booth Library, Newtown, CT. May 2010.

## Awards, Grants and Fellowships

Northeast Sustainable Agriculture Research & Education, \$15,000	2019
<i>Award Number: GNE19-221-33243, Proposal Number: G19-052</i>	
Rosenkranz Awards for Pedagogical Advancement, Poorvu Center, \$10,000	2019
Supporting Whole Persons Award, Yale School of Forestry and Environmental Studies	2018
Excellence in Pedagogy Teaching Award, Yale School of Forestry and Environmental Studies	2018
Yale Institute for Biospheric Studies, \$3500	2015
Society for Ecological Restoration, \$500	2015
Conference Travel Fellowship, Yale Graduate School Assembly, \$750	2014
Doctoral Conference Travel Grant, Yale School of Forestry and Environmental Studies, \$500	2014
Lewis B. and Dorothy Cullman Doctoral Research Award, \$5000	2014
Andrew M. Greller Graduate Student Award, Torrey Botanical Society, \$1000	2014
Doctoral Conference Travel Grant, Yale School of Forestry and Environmental Studies, \$500	2012
Yale Institute for Biospheric Studies, \$5000	2011
Lewis B. Cullman Fellowship	2011-2016

## Professional Affiliations and Certifications

Sigma Xi, The Scientific Research Honor Society, Full member; Northeast Organic Farmers Association; Society of American Foresters; Botanical Society of America; Connecticut Botanical Society; Arnold Arboretum; Torrey Botanical Society; New England Botanical Club; Society for Ecological Restoration; Certified Forester, Connecticut Department of Environmental Protection; Game of Logging, Levels 1 & 2

## Service & Volunteer Work

Reviewer: *Forest Ecology and Management, Environmental Monitoring and Assessment, Journal of Arid Environments, PloS One, Scientific Reports, Annals of Forest Science, Canadian Journal of Forest Research, Ecology and Evolution, Southwestern Naturalist, BMC Ecology, International Journal of Environmental Research and Public Health, MDPI Forests*

Board Member at Large, Society for Ecological Restoration New England	2020 – Present
Newtown Forest Association, Consultant to the Board	2008 – Present
Secretary and Board member: Newtown Earth Day	2013 – 2016
Forest Ecology Field Trip: Eastford Middle School	Fall 2104, 2015
Treasurer: Society of American Foresters, Yale chapter	2008-2010
Symposia Chair: Society of American Foresters, Yale chapter	2009
Organic Land Care Committee Member: Northeast Organic Farming Association CT chapter	2003
Certification Committee Member: Northeast Organic Farming Association CT chapter	2000-2002