

CURRICULUM VITAE of MARK S. ASHTON

PRESENT ADDRESS:

Office:
School of Forestry and Environmental Studies,
360 Prospect Street, Marsh Hall
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Home:
Apt. 1-G, 500 Prospect Street,
New Haven, CT 06511
Cell: (203)-927-4195

EDUCATION:

- 1986-90** Yale University, School of Forestry and Environmental Studies.
Ph.D. in forest ecology (regeneration ecophysiology). Advisor: D.M. Smith
- 1983-85** Yale University, School of Forestry and Environmental Studies.
M.F. in silviculture, economic analysis. Advisors: C.L Binkley; B.C. Larson
- 1979-82** University of Maine, Orono, College of Forest Resources.
B.S. (with high honors) Forestry and Wildlife
B.S. (with high honors) Wood technology.

ACADEMIC APPOINTMENTS:

- 2007-** Morris K. Jessup Chair of Silviculture and Forest Ecology, Yale University
- 2000-2007** Professor of Silviculture and Forest Ecology, Yale University
- 2000-** Director of School Forests, Yale University
- 2002-** Associate Scientist, New York Botanical Garden, Bronx, New York
- 1999-11** Associate Scientist, Smithsonian Tropical Research Institute, Panama
- 1998-02** John D. Musser Director of the Tropical Resources Institute, Yale University
- 1996-00** Associate Professor of Silviculture, Yale University, School of Forestry and Environmental Studies.
- 1992-96** Assistant Professor of Silviculture, Yale University, School of Forestry and Environmental Studies.
- 1991-92** Lecturer of Silviculture, Yale University, School of Forestry and Environmental Studies.

PROFESSIONAL INTERESTS:

Research concerns tree seedling ecology, physiological and morphological adaptations of leaves to environment, forest microenvironments, disturbance and landscape level dynamics of forests and their applications to: 1) regeneration silviculture of native forests; 2) restoration of degraded forestlands; 3) plantation analogs of mixed-species stands and agroforestry systems; and 4) silviculture of non-timber forest crops.

Teaching concentrates on all aspects of silviculture and forest ecology with a particular emphasis on natural forests - worldwide. Other areas of interest include management of protected areas broadly defined; ecosystem services – with particular focus on water and carbon sequestration; forest watershed issues of the urban - rural interface; and agroforestry and forest restoration systems as models for community development.

BIOGRAPHICAL SKETCH:

I was born in the Brunei Sultanate. My early childhood was in Sarawak and Brunei, but later I moved to Scotland and now live in New England, USA. I have traveled widely throughout South and Southeast Asia, Europe, and North and South America. I have conducted long-term field research for over 35 years in Sri Lanka and New England, USA; and for over 15 years in Panama. Short-term research sites (5-10 years) have been in British Columbia and Saskatchewan, Canada; the Peruvian Amazon; Mata Atlantica, Brazil; Ecuador; Mexico, Central African Republic; the Indian Himalayas and Western Ghats; Puerto Rico; southern China; Mongolia; and Malaysia. My native language is English but also speak basic Sinhala and French and rudimentary Spanish.



HONORS AND AWARDS:

- 2019 Acknowledgement of Teaching Excellence – Yale F&ES Student Class 2019
- 2019 David M. Smith Award for research and teaching in silviculture, Society of American Foresters
- 2014 Acknowledgement of Teaching Excellence – Yale F&ES student class 2014
- 2013 Yale Sustainability Achievement Award
- 2013 Acknowledgement of Teaching Excellence - Yale F&ES student class 2013
- 2012 Acknowledgement of Teaching Excellence – Yale F&ES Student class 2012
- 2011 Recognition of Service Award – Connecticut Forest and Park Association
- 2010 Acknowledgement of Teaching Excellence – Yale F&ES student class 2010
- 2010 Conservation Service Award – Incarnation Center
- 2009 Acknowledgement of Teaching Excellence – Yale F&ES student class 2009
- 2008 Acknowledgement of Teaching Excellence – Yale F&ES student class 2008
- 2003 Recognition of Public Service, State of Connecticut
- 2002 Acknowledgment of Teaching Excellence - Yale F&ES student class 2002 (large class category).
- 1999 Acknowledgment of Teaching Excellence - Yale F&ES student class 1999 (student advising).
- 1998 Acknowledgment of Teaching Excellence - Yale F&ES student class 1998 (large class category).
- 1997 UNESCO Sultan Quaboos prize for Environmental Conservation.
- 1996 Honorable Mention - Food and Agricultural Sciences Excellence in College and University Teaching.
- 1996 Acknowledgment of Teaching Excellence - Yale F&ES student class 1996 (small class category).
- 1996 Leopold Schepp Award for Forest Conservation
- 1995 Acknowledgment of Teaching Excellence - Yale F&ES student class 1995 (student advising).
- 1995 Nominee - Food and Agricultural Sciences Excellence in College and University Teaching.
- 1994 Acknowledgment of Teaching Excellence – F&ES Yale student class 1994 (large class category).
- 1994 Appalachian Trail Countryside Initiative Award from National Park Service.
- 1993-1994 Massachusetts Trustees of Reservations awards for protected areas management plans.
- 1993 Acknowledgment of Teaching Excellence – F&ES Yale student class 1993 (large class category).

PROFESSIONAL EXPERIENCE AND SERVICE:**Consultant/Advisor:**

- 08-16 Research and development of an applied ecology program for minority regions in China in collaboration with the National University for Minorities, Beijing and New York Botanical Garden.
- 06-17 Founder and Principal investigator, Environmental Leadership and Training Initiative, Yale program in partnership with the Smithsonian and National University Singapore
- 06 Consultant, APRIL plantations, LTD, Sumatra, Indonesia
- 02-ongoing Member, Forest Practices Board, State of Connecticut.
- 01-11 Board of Directors, Connecticut Forest and Park Association, CT.
- 01-06 Chair, Soils/Ecology Working Groups, New England Society of American Foresters
- 00-ongoing Scientific Advisory board - Watershed management for the City of New York, DEP.
- 99-10 Founder and Principal Investigator - PRORENA Program, A Smithsonian/Yale joint research program
- 98-00 Aerial reforestation with Massachusetts Institute of Technology and Lockheed Martin, Inc.
- 98-ongoing Founder and Board of Directors, Sri Lankan Program for Forest Conservation, Sri Lanka.
- 98-99 Consultant for World Wildlife Fund Kikori sustainable forest management project, PNG.
- 97 Silvicultural advisor to Anderson Tully Company, Memphis, TN
- 97 Silvicultural consultant for South African Pulp & Paper Inc., SD. Warren division, ME
- 96-ongoing Scientific Advisory Board, Quabbin Watershed, Massachusetts Water Authority, City of Boston, MA
- 96-08 InterForest LLC, Global forest community development and investment projects
- 94-00 Contract research for Mistik Management, Saskatchewan - regeneration methods for spruce-aspen mixtures.
- 94-95 Consultant for Centre for International Forest Research, Bogor, Indonesia.
- 92 Consultant for World Bank - tropical forest management.
- 91-94 Advisor for Sustainable Forest Systems, Inc. Growing high value hardwoods in the tropics.
- 91-96 Advisor for Smithsonian Tropical Research Institute - long term management sites in forests of southeast Asia.

- 90-00 Consultant for Winrock International, Institute for Agricultural Development.
90 Consultant for Louis Berger International - Indonesian forest management.

Peer Review Contributions:

Associate Editor or Editor: Forest Ecology and Management (1997-ongoing); Forest Science (1998-2006); Biotropica (2003-2007); International Journal of Ecology (2008-10); Journal of Sustainable Forestry (1994-2000); International Journal of Forest Research (2015-2017); Forests (2016-ongoing).

Reviewer: American Journal of Botany, Biological Conservation, Biotropica, Canadian Journal of Botany, Canadian Journal of Forest Research, Conservation Biology, Ecology, Ecological Applications, Ecological Monographs, Economic Botany, Environmental Conservation, Forest Ecology and Management, Forest Science, Journal of Applied Ecology, Journal of Ecology, Journal of Environmental Management, Journal of Forestry, Journal of Sustainable Forestry, Journal of Tropical Ecology, Journal of Tropical Forest Science, Nature, New Forests, New Phytologist, Northern Journal of Applied Forestry, Oecologia, Science.

Reviewer: National Science Foundation, NASA competitive grants, USDA competitive grants program.

Book Manuscript Reviewer: Chicago University Press, Island Press, Kluwer Academic Press, Oxford University Press, Princeton Press, Yale University Press.

Series Editor: New York Botanical Garden/Tropical Resources Institute Regional Field Guides to Tropical Plants (in preparation with C. Peters, D. Stevenson-NYBG).

Professional Societies and Service:

- 2015- Licensed Professional Forester, State of Vermont
2008- Licensed Professional Forester, State of New Hampshire
2002- Licensed Professional Forester, State of Connecticut
2002- Certified Senior Ecologist, Ecological Society of America
2001-2011 Certified Forester, Society of American Foresters
1995- Licensed Professional Forester, State of Maine

Member American Association for Advancement of Science; Botanical Society of America;
British Ecological Society; Ecological Society of America.
Society of American Foresters-Working group member of i) forest ecology, ii) silviculture,
iii) silviculture instructors, and iv) agroforestry.
Sigma Xi; Xi Sigma Pi Forestry Honors Society.

University Service:

School of Forestry and Environmental Studies, Yale University.

Doctoral Admissions Committee 1994-1999; 2004-2006; 2016-ongoing
Tropical Resources Institute Committee 1991-ongoing; Chair 1998-2002.
Strategic visioning committee 2017
Strategic curriculum committee 2017
Masters Admissions Committee 1992-1994; 2001-2004; 2007-2016; 2017-ongoing
Chair - Search Committee for Field Ecologist 2016
MF Accreditation Committee 1993-1994; 1998-1999; 2013-14; Chair 2003-2004.
MF Program Coordinator 1993-2013; 2018-ongoing
Faculty advisor – Urban Resources Initiative 2010-ongoing
Chair - Search Committee for Tree Physiologist 2013
Chair - Search Committee for Tropical Ecologist 2012
Tenure Committee for Industrial Ecology Position 2010
Greenhouse Committee 1998-2009
School Curriculum Committee 1996-2008.
Search Committee for Dean of Forestry and Environmental Studies 2008
Chair - Search Committee for Terrestrial Ecosystem/Soil Ecologist 2007
Tenure Committee for Forest Policy Scientist Position 2006
Student Affairs Committee 1999-2005
Ad Hoc Committee Forest and Forestry Focal Area; Chair 2001-2003.



Tenure Committee for Biometeorologist Position 2002
 Chair - Facilities and Space 1999-2002
 Yale Forest Forum 1997-2000.
 School Transition Committee 1998-1999
 Ad Hoc Committee on Programs and Centers 1998-1999.
 Search Committee for Tropical Resource Scientist Position 1998-1999.
 Search Committee for forest Management Position 1997.
 Search Committee for Landscape Ecologist 1995
 Chair - Ad Hoc School Forest Review Committee 1994-96.
 Academic Standing Committee 1994-96.
 Ad Hoc Committee to Review Centers 1994-1995.
 Ad Hoc Committee to Review Masters of Forestry program 1994-1995.
 Search Committee for Biometeorologist 1994.
 Ad Hoc Committee to Review MES Program 1992-93.

Yale University

Marsh Botanic Gardens committee 1998-2016.
 Participation in the Center for Earth Observation 1998-ongoing.
 Participation in the Studies in Environment Program 1998-2004.
 FES representative to the University Tribunal 1999-2000.

Professional Field Experience:

2001- **Director of School Forests**, Yale University, Licensed practicing forester States of CT, ME, NH, VT; Senior Certified Ecologist (ESA). Charged with overseeing the management, education and research programs of 12,000 acres of University forestlands in CT, VT and NH.

2006-2017 **PI and Founder– Environmental Leadership and Training Initiative**, Yale University, CT. A capacity building and training program in tropical forest restoration and conservation.

1999-2012 **PI and Founder – PRORENA – Program in Native Species Reforestation**, Yale University, CT. A program to select, measure and test native species tree plantings for forest restoration in Central America and to serve as a reforestation extension program for Panamanian landowners

1986-89 **Forest Manager**, Yale-Myers Forest, Eastford, CT. Supervision of student interns and timber sales of an 8,000 acre forest.

1981-83 **Forestry and Natural Resource Consultant**. Weston, MA. Management plans and wildlife inventories for non-industrial private landowners

1981 **Intern Field Forester** (summer) Diamond International, ME. Inventory of industrial timberlands.

1980 **Horticultural Intern** (summer) Arnold Arboretum, Harvard University, MA. Propagation techniques, hardiness testing, and verification of living collections.

1979 **Park Naturalist** Cape Cod National Seashore, National Park Service, MA. Monitored fledgling success for seabirds. Provided walks and lectures on ornithology to visitors.

TEACHING AND MENTORING:

Courses: (current)

1991-Ongoing¹ The Practice of Silviculture: Applied Forest Ecology (4 cr, 70 lecture hrs; 8 field days) (30-50³).
 1992-Ongoing¹ Management Plans for Protected Areas. (6 cr, 50 lecture hrs; 15 field days) (10-20³)⁴.
 1994-Ongoing¹ Field Trips in Silviculture and Forest Management. (SC, 8-15 days). (12-18³)⁴
 2000-Ongoing¹ Apprentice Forester Program (SC, 50 field days) (6-12³)⁴
 2009-Ongoing¹ Seminar in Analysis and Communication for Forest Ecology (6 cr, 100 lecture hrs.) (6-12³)⁴
 2016-Ongoing² Tropical Forest Restoration (flip/online) (4 cr, 50 Lecture hrs; 7 field days) (12-15³)²

Courses: (past)

2015-Alternating² An Introduction to Tropical Forest Restoration (4 cr. Online-Flip 6 weeks) (12-16³)⁴
 2008-Alternating² Payments for Ecosystem Services (4 cr. 50 lecture hrs).(12-14³)⁴
 1999-Occasional² Seminar in Agroforestry (3 cr, 60 lecture hrs) (10-20³)⁴
 1996-Alternating² Analysis of Silvicultural Problems. (3 cr, 50 lecture hrs). (6-12³)⁴
 1994-Alternating² Seminar in Advanced Silviculture. (3 cr, 50 lecture hrs). (6-12³)⁴
 1993-Alternating² Rapid Assessments in Forest Conservation (4 cr, 40 lecture hrs; 10 field days) (12-14³)⁴.

¹Taught every year; ²Taught every other year; ³Approximate number of students; ⁴Restricted; cr-credit

Thesis Supervision: Chairperson - doctoral students.

- 2019- David Woodbury, Restoration ecology of tropical forests; Mine land reclamation
- 2017- Danica Doroski. Urban forest stand dynamics and restoration pathways
- 2014- Meredith Martin. Dry tropical forest dynamics of community managed forest, Guerrero, Mexico (in Progress; co-chair with C. Peters NYBG).
- 2010-2016 Marlyse Duguid. Diversity and composition of forest understories in relation to forest management (Completed; co-chair with L. Kelly NYBG; now Lecturer in Field Ecology, Yale University).
- 2009-2015 Thomas James. Stand dynamics and demographics of mixed larch-spruce of boreal Mongolia (Completed; co-chair with C. Peters; now Director of Forest Resources, HumaHuma, Inc, WA).
- 2007-2015 Jeff Stoike. The political ecology of reforestation in Bahia, Brasil. (Completed; co-chair Michael Dove; now Research analyst, U.S. Department of State).
- 2006-2011 Daniel Piotto. Successional dynamics of second growth forests in the Atlantic rain forest region, Brazil (co-chair with F. Montagnini and NYBG). (Completed: now Dean, College of Agroforestry, Federal University of Southern Bahia, Brazil).
- 2006-2015 Elaine Hooper. Regeneration diversity and composition of Amazonian forests and effects of fragmentation (co-chair with D. Daly, NYBG; Post-doctoral researcher, Univ. Victoria, British Columbia).
- 2004-2011 Brent Frey. Comparative cohort dynamics of forest understories in oak and mixed dipterocarp forests (Completed; now Assist. Prof. Mississippi State University).
- 2001-2007 David Ellum. Understanding mechanisms in pattern and process of regeneration that can better define concepts about redundancy and resiliency of southern New England forests, USA. (Completed; now Prof. Warren Wilson College).
- 2001-2007 Helen Mills-Poulos. Climate, fire, and vegetation dynamics of the Chihuahuan desert borderlands. (Completed; co-chair with A. Camp; now Assist. Prof. Wesleyan Univ., CT).
- 1999-2004 Heather Peckham. The ecology of forest regeneration on abandoned pasture lands of seasonal dry tropical forest, Panama. (Completed; co-chair with Dennis Stevenson, NYBG; now Assoc. Prof. James Madison Univ., VA.)
- 1997-2005 Richard Karty. Floristic pattern across and urban rural gradient of southern New England (Completed; co-chair with C. Peters, NYBG; now Research Scientist at New College, NY).
- 1996-2005 Cesar Flores. The demographics of *Cedrella* spp. in relation to physiographic gradients and disturbance in the western Amazon basin, Peru (Completed; now Director of Science, Manu National Park, Peru)
- 1996-2002 Jefferson Hall. Is the distribution of sympatric *Entandrophragma* species in Central Africa the result of differences in competitive ability across soil moisture and fertility gradients? A study linking seedling performance, physiology and landscape scale edaphic variability (Completed; now Dir. Applied Ecol. and staff scientist, Smithsonian Trop. Res. Inst., Panama).
- 1996-2003 Bronson Griscom. Bamboo control of forest dynamics in the Peruvian Amazon. (Completed; co-chair with D. Daly, NYBG; now chief carbon scientist TNC).
- 1994-1999 Rajesh Thadani. Human disturbance, changing microclimate and the regeneration of banj oak (*Quercus leucotrichophora* A. Camus) in the forests of the central Himalaya (Completed; co-chair with G.P. Berlyn; now Director, The Center for Environment and Development, India).
- 1993-1999 Heidi Asbjornsen. The ecological consequences of habitat fragmentation in a human-dominated high-elevation oak-pine forest in Oaxaca, Mexico. (Completed; co-chair with K. Vogt; now Assoc. Prof. Univ. New Hampshire.).
- 1993-2001 James Grogan. Investigations on the demography and regeneration ecology of bigleaf mahogany (*Swietenia macrophylla* King) in south Para, Brazil (Completed; now research scientist, IMAZON, Brazil).
- 1992-1998 Peter Palmioto. The role of specialization in nutrient-use efficiency as a mechanism driving species diversity in a tropical rain forest. (Completed; co-chair with K. Vogt; now Prof. Antioch College, NH).

Committee member: doctoral students.

- 1992-2015 R. Ashley, D. Astiani, M. Booth, J. Bulkan, M. Campos, J. Chow, D. Craven, K. Dayananda, M. Ducey, C. Erhingham, A. Evans, A. Finkral, U. Goodale, N. Hendriksen, A. Hohl, M. Krishnadas, W-L. Li, A. Mathews, W.K. Moser, A. Ponette, A. Richardson, H. Rodriguez, B. Shivaramakrishnan, S. Stout, J. Sturgeon, J. Tuxill, J. Velasquez-Runk, X Zhang (completed).



In progress I. Cameron, C. Pregitzer, H. Venugopalannairradhamoni

Thesis supervision: Masters students who published peer-reviewed research under my supervision.

2017-2019 Caroline Tasirin (Lecturer, University of Sam Ratulangi, North Suluwesi, Indonesia)
 2017-2019 David Woodbury (Doctoral student – Yale University, CT)
 2017-2019 Laura Ostrowski (Research assistant, Yale University, CT)
 2016-2018 Jessica Wikle (Post graduate fellow – Yale University, CT)
 2015-2017 Danica Doroski (Doctoral student, Yale University, CT)
 2015-2017 Juliana Hanle (Post-graduate fellow, YF&ES)
 2015-2017 Aaron Lefland (Director of New Canaan Land Trust, CT)
 2015-2017 Irene Montes (FAO, Panama)
 2014-2016 Camille Delavaux (Doctoral student, University of Kansas, KS)
 2014-2016 Kyra Prats (Doctoral student, Yale University, CT)
 2013-2015 Hale Morrell (Naturalist, National Park Service, ME)
 2013-2015 Jaeun Sohng (Research assistant, Yale University, CT)
 2012-2015 Molly Roske (Research Forester, Univ. Minnesota, Cloquet, MN).
 2012-2014 Matthew Bare (MBA, Univ. delosAndes, Bogota, Colombia)
 2012-2014 Klaus Geiger (Forester, Rain Forest Alliance, Washington DC)
 2011-2013 Erin Raboin (Research botanist, Missouri Botanical Garden, St Louis, MO)
 2010-2012 Nathan Rutenbeck (PhD student, University of Maine)
 2010-2012 Tina Schneider (Research Forester, Forest Program, WRI)
 2010-2012 Kayanna Warren (Forester, San Diego, US Forest Service)
 2010-2012 Meredith Martin (Research assistant NYBG; PhD candidate Yale).
 2009-2012 Blake Troxel (City of San Francisco, Urban Forester)
 2008-2010 M. Duguid (PhD. 2016, Yale University)
 2008-2010 E. Jack-Scott (Extension Coordinator, Boulder, CO)
 2007-2010 K. Covey (PhD. 2016, Yale University)
 2007-2010 F. Eaton (Carbon Certification Forester, SCS, San Francisco, CA)
 2007-2010 T. Ilany (Research Fellow, Institute of Ecology, Edinburgh)
 2007-2010 R. Koirala (Natural Resource Assistant, World Bank Fellow)
 2007-2009 J. Orefice (Ph.D. 2014; UNH; Instructor – Paul Smiths College; Director School Forests Yale)
 2007-2009 B. Milakowsky (WWF Forester, Vladivostok, Russia)
 2006-2008 C. Tomimura (Rainforest Alliance, Bali, Indonesia)
 2006-2008 T. James (PhD. 2015, Yale Univ.)
 2005-2007 A. Macalady (Ph.D. 2013 Univ. Arizona; Scientist AAAS)
 2003-2006 D. Braden (Biology Teacher, High School, MA)
 2003-2006 D. Craven (Ph.D 2012, Yale University; Post Doctoral Scientist, Bayreuth Univ., Germany)
 2003-2006 L. Yocom (PhD candidate Northern Arizona Univ.)
 2002-2004 M. Aikens (PhD candidate, Univ. Virginia)
 2002-2004 F. Rockwell (Ph.D 2012 Harvard Univ.; Research Associate, Harvard Univ.)
 2002-2004 V. Medjibe (Ph.D. 2011, Univ. Florida; Post doctoral Scientist, Duke Univ.)
 2001-2003 M. Francis (Research Fellow, CIFOR, Brazil)
 1999-2001 D. Ellum (Ph.D. 2007, Yale University; Prof. Warren Wilson Univ., NC)
 1999-2001 S. Quazi (PhD. 2010, Univ. Hawaii; Prof. International University, Bangladesh)
 1999-2001 M. Fladeland (Research Scientist, NASA, Los Angeles, CA)
 1999-2001 U. Goodale (Ph.D. 2009, Yale University; Assoc. Prof. Forestry, Univ. Guangxi)
 1998-2000 C. Kuebler (Program manager, American Forests Foundation)
 1998-2000 C. Young (Carbon Certification Forester, SCS, San Francisco, CA)
 1997-1999 B. Hammond (Ecologist, The Nature Conservancy)
 1996-1998 L. Camara-Cabrales (Ph.D. U. Massachusetts; Prof. Univ. Merida, Yucatan).
 1996-1998 P. Barreto (Research Forester and Ass. Dir., IMAZON, Brazil).
 1995-1997 A. Evans (PhD 2006 Yale University; Chief Scientist, The Forest Guild, NM).
 1995-1997 T. Shibayama (Environmental Consultant, JICA, Tokyo)
 1995-1997 W. Stanley (Research Forester, Nature Conservancy)
 1993-1996 R. Cherry (Manager, Levi's Inc, Singapore)

- 1993-1996 A. Leighton (Ph.D. 2004, Univ. Massachusetts; Assoc. Prof, Flat Head Community College, MT)
1993-1996 L. Raleigh (Ecologist, Trustees of Reservations, MA)
1993-1995 C. Flores (PhD candidate, Yale University; Director Manu National Park, Peru)
1993-1995 M. McGroddy (Ph.D. 2003, Berkeley; Assoc. Prof., Univ. W. Virginia)
1993-1995 L. Olander (Ph.D. 2002, Stanford University; Assist. Dir. Duke Environment Inst.)
1993-1995 A. Troy (Ph.D. 2002, UC Berkeley; Assoc. Prof. Univ. Colorado, CO).
1992-1994 P. Baker (PhD 1999, University of Washington; Assoc. Prof. U. of Melbourne, Australia)
1992-1994 C. Carron (PhD 1999, Cornell University; Assoc. Prof. Clark Univ., MA)
1992-1994 A. Cohen (PhD candidate, University of Washington; deceased)
1992-1994 R. Thadani (PhD 1999, Yale University; Director CEDAR, India)
1990-1992 J. Hall (Phd. 2002, Yale University; Staff Scientist, Smithsonian)
1990-1992 M. Ducey (Ph.D. 1996, Yale University; Prof., UNH).

Thesis advisor: Masters students who published peer-reviewed research, University of Peradeniya.

- 1992-2002 S. Gamage, J. Samarasingha, H. Kaatacheri (completed).

Thesis advisor: Masters students who published peer-reviewed research, University of Sri Jayawardenapura.

- 1995-2007 P. Attygalle, M. Bandumala, S. Ediriweera, H. Gamage, K. Pandithirathna, R. Uduporuwa (completed)

FUNDING

Grant and funding achievements available upon request. PI or Co-PI for over 25 million U.S. dollars of program and research funds (1991-2019)

INVITED SPEAKING

Speaking engagements available upon request. Invited to speak at over 300 engagements and presentations (1990-2019).

RESEARCH PUBLICATIONS OF MARK S. ASHTON

BOOKS & MONOGRAPHS - IN PREPARATION

- Forrest, T., & M.S. Ashton. ---- . 3rd edition. Field Guide to the Common Trees and Shrubs of Puerto Rico. NYBG Press, New York. (in prep).
Ashton, M.S., & P.S. Ashton. ----- . The silviculture and restoration ecology of tropical forests. Oxford University Press, (in prep).

AUTHORED BOOKS, EDITED BOOKS & MONOGRAPHS - PUBLISHED OR IN PRESS

18. Ashton, M.S., & M.J. Kelty. 2018. The Practice of Silviculture: Applied Forest Ecology. 10th edition, Wiley & Sons, New York.
17. Hall, J.S., and M.S. Ashton. 2016. Reforestation Handbook for Native Species for Central America. Smithsonian Tropical Research Institute, Panama.
16. Ashton, M.S., U.M. Goodale, K.S. Bawa, P.S. Ashton, and J.D. Neidel (Editors). 2014. Restoring Working Forests in Human Dominated Lands of Tropical South Asia. Forest Ecology and Management, Special Issue V. 329
15. Alcott, E, Ashton, M.S., and B.S. Gentry (Editors). 2013. Natural and Engineered Solutions for Drinking Water Supplies: Lesson from the Northeastern United States and Directions for Global Watershed Management. CRC Press, Boca Raton, FL. 290 p.
14. Ashton, M.S., Tyrrell, M.L., Spalding, D., & B. Gentry (Editors). 2012. Managing Forest Carbon in a Changing Climate. Springer Verlag, New York. 410p.
13. DuVal, A., Murotagoiena, T., & M.S. Ashton (Editors). 2012. Multiple-Use Management of Protected Natural Areas: Integrating Conservation, Restoration and Recreation in the Spanish Basque country. Nova Publ., New York.



12. Hall, J.S., Ashton, M.S., & E.J. Garen (Editors). 2011. The Ecology and Ecosystem Services of Native Trees: Implications for Reforestation and Land Restoration in Mesoamerica. Forest Ecology and Management, Special Issue. V. 261.
11. Tyrrell, M.L., Ashton, M.S., Spalding, D., & B. Gentry (Editors). 2009. Forests and Carbon: A Synthesis of Science, Management, and Policy for Carbon Sequestration in Forests. FES Bulletin 23, 450 p.
10. Clark, T.W., Cherney, D.N., Ashton, M.S., Bond, A., & A. Johnson (Editors). (2009). Development and environmental challenges in Podocarpus National Park, Ecuador. Journal of Sustainable Forestry, Special Issue 28: 597-893.
9. Clark, T.W., Dixon, L., Ashton, M.S., & B. Petit (Editors). 2006. Innovation and Appraisal of Sustainability Efforts in La Amistad, Bocas del Toro, Panama and Talamanca, Costa Rica. Journal of Sustainable Forestry, Special Issue 22: 1-185.
8. Clark, T.W., Ashton, M.S., Zimmerman, K., & Q. Newcomer (Editors). 2004. Conservation and Development of the Condor Biosphere Reserve, Ecuador. Journal of Sustainable Forestry, Special Issue 18: 1-327.
7. Clark, T.W., Ashton, M.S. & J. Tuxill (Editors). 2003. Conservation or Development? The Case of the Amisconde Project, La Amistad Biosphere Reserve, Costa Rica. Journal of Sustainable Forestry, Special Issue 16: 1-211.
6. Asbjornsen, H.A., & M.S. Ashton (Editors). 2002. Balancing Conservation with Development: A Comparison of Two Forest Communities in Oaxaca, Mexico. Journal of Sustainable Forestry Special Issue 15: 1-131.
5. Ashton, M.S. & F. Montagnini (Editors). 1999. The Silvicultural Basis for Agroforestry Systems. CRC Press, Boca Raton, Florida. 278 p.
4. Ashton, M.S., O'Hara, J. & R. Hauff (Editors). 1998. Protecting Watershed Areas: Case of the Panama Canal. Haworth Press, Binghamton, New York. 214 p.
3. Ashton, M., Gunatilleke, S., de Zoysa, N., Gunatilleke, N., & S. Wijesundera. 1997. A Field Guide to the Common Trees and Shrubs of Sri Lanka. Wildlife Heritage Trust, Colombo. 432 p.
2. Smith, D.M., Larson, B.C., Kelty, M.J., & P.M.S. Ashton. 1997. The Practice of Silviculture: Applied Forest Ecology. 9th edition, Wiley & Sons, New York. 537 pp.
1. Ashton, P.M.S. 1989. Second edition. Foresters Field Guide to the Common Trees and Shrubs of Puerto Rico. Tropical Resources Institute, Yale University, New Haven, Connecticut, USA. 180 p.

JOURNAL RESEARCH PAPERS/REVIEWS (Peer Reviewed) - IN REVIEW

- Effah, R., Gregoire, T.G., Brown, H., & M.S. Ashton. ---- . Allometric equations for estimating above-ground biomass of Teak (*Tectona grandis* L.) plantations in Ghana. Forest Ecology and Management (in review).
- Ellum, D.S., G.P. Berlyn, and M.S. Ashton. ----- . Leaf-level responses of forest understory herbs to seasonal changes in light environment: Implications for plant conservation after timber harvests. American Journal of Botany (in review).
- Hooper, E.R. and M.S. Ashton. ---- . Fragmentation reduces community-wide taxonomic and functional diversity of dispersed tree seeds in the Central Amazon. Journal of Ecology (in review).
- Piotto, D., F. Montagnini, M.S. Ashton, W. Thomas, and C.D. Oliver. ----- . Distance from mature forest affects floristic and functional recovery of secondary forests in southern Bahia, Brazil. Journal of Vegetation Science (in review).
- Ashton, P.M.S., ----- . Germination and seedling growth of *Quercus* (section *Erythrobalanus*) in simulated light environments of a broadleaved forest. Canadian Journal of Forest Research (in review).
- Frey, B. and M.S. Ashton. ---- . Alternative shelterwood approaches for natural regeneration of oak-dominated hardwood stands on mesic sites in southern New England. Journal of Sustainable Forestry (in review)

JOURNAL RESEARCH PAPERS/REVIEWS (Peer Reviewed) - PUBLISHED OR IN PRESS

162. Hooper, E and M.S. Ashton. 2019. Fragmentation reduces community-wide taxonomic and functional diversity of dispersed tree seeds in the Central Amazon. Ecological Applications, (in press)
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