

JEAN MARIE HARTMAN, Ph.D.

Associate Professor
Department of Landscape Architecture
Blake Hall, Cook College
Rutgers, The State University of New Jersey
93 Lipman Drive
New Brunswick, NJ 08901-8524
(848) 932-8488
jhartman@rci.rutgers.edu
<http://www.hartmanlab.rutgers.edu>

EDUCATION

- 1984 University of Connecticut. Ph.D. Ecology
Specialization: Population and community ecology.
Thesis: The role of wrack disturbance in the vegetation of a New England salt marsh plant community.
- 1981 University of Wisconsin - Madison. M.S. Landscape Architecture
Specialization: Restoration and management of native plant communities.
Thesis: A comparison of sampling methods for tall grass prairies in terms of management problems.
- 1976 University of Wisconsin - Madison. B.S. Botany

PROFESSIONAL EXPERIENCE AND RESEARCH

- 2007-2010 Department Chair. Department of Landscape Architecture, Cook College, Rutgers University. New Brunswick, NJ.
- 2005-2007 Interim Department Chair. Department of Landscape Architecture, Cook College, Rutgers University. New Brunswick, NJ.
- 2005 Acting Department Chair. Department of Landscape Architecture, Cook College, Rutgers University. New Brunswick, NJ.
- 1994-present Associate Professor. Department of Landscape Architecture, Cook College, Rutgers University. New Brunswick, NJ.
- 1988-94 Assistant Professor. Department of Landscape Architecture, Cook College, Rutgers University. New Brunswick, NJ.
- 1988 Visiting Lecturer. Department of Landscape Architecture, Rhode Island School of Design. Providence, RI.
- 1986-88 Postdoctoral Research Associate and Lecturer. Department of Landscape Architecture, Graduate School of Design, Harvard University. Cambridge, MA.
- 1984-86 National Research Council Associate. Global Biology Program, NASA Langley Research Center. Hampton, VA.
- 1983-84 Visiting Investigator. Demographic Methods for Prediction of Toxic Substance Effects. Biology, Woods Hole Oceanographic Institution. Woods Hole, MA.
-

Recent Publications

- Hartman, J.M. and B. Park. In Prep. The relationship between land use and stream water quality in the Raritan Basin. For Environmental Management.
- Hartman, J.M., and J. Quispe. In Prep. The prospects of vegetation coverage with hydrologic change in Marshes Creek, NJ. For Wetlands.
- Hartman, J.M., D. Smith, Z. Tech Czarny, and J. Quispe. 2017. Jersey City Environmental Resource Inventory.
- Miitchell, R.J., and J.M. Hartman. 2017 Tamarack Bog Mitigation Progress Report. Submitted to ACOE, Ohio EPA.
- Hartman, J.M., and J. Quispe. 2015. Environmental Resource Inventory for the Borough of Roosevelt, Monmouth County.
- Hartman, J.M., and D. Webb. 2013. A Watershed Event: Communicating Landscape Processes. pp 36-44. IN: Fábos, J.G., Lindhult, M., Ryan, R.L., & Jacknin, M. (Eds). 2013. Proceedings of Fábos Conference on Landscape and Greenway Planning: Pathways to Sustainability. University of Massachusetts, Amherst, April 12-13, 2013. Full papers. Amherst, MA: Department of Landscape Architecture and Regional Planning, University of Massachusetts, Amherst.
- Novy, A., S.L. Flory, J.M. Hartman. 2013. Evidence for rapid evolution of phenology in an invasive grass. *Journal of Evolutionary Biology* 26: 443–450.
- Novy, A., S.L. Flory, J.A. Honig, and S. Bonos, J.M. Hartman. 2012. Characterization of polymorphic microsatellites for the invasive grass *Microstegium vimineum* (Poaceae). *American Journal of Botany* 99: e56–e58.
- Novy, A., P. Smouse, J.M. Hartman, L. Struwe, J. Honig, C. Miller, M. Alvarez, S. Bonos. 2010. Erratum to: Genetic Variation of *Spartina alterniflora* in the New York Metropolitan Area and Its Relevance for Marsh Restoration. *Wetlands* (2010) 30: 1007.
- Novy, A., P. Smouse, J.M. Hartman, L. Struwe, J. Honig, C. Miller, M. Alvarez, S. Bonos. 2010. Genetic Variation of *Spartina alterniflora* in the New York Metropolitan Area and Its Relevance for Marsh Restoration. *Wetlands* (2010) 30: 603-608.
- Novy, A., J.M. Hartman, P. Smouse, L. Struwe, C. Miller, W. Skaradek, S. Bonos. 2008. *HortScience* 43: 594.
- Nordstrom, K.F., J.M. Hartman, A. Freestone, Mark Wong, N.L. Jackson. 2007. Changes in topography and vegetation near gaps in a protective foredune. *Ocean & Coastal Management* 50 (2007) 945–959.
- Nordstrom, K.F., N.L. Jackson, J.M. Hartman, Mark Wong. 2006. Aeolian sediment transport on a human-altered foredune. *Earth Surface Processes and Landforms* 32(1): 102 - 115
- Bart, D., D. Burdick, R. Chambers, and J. M. Hartman. 2006. Human Facilitation of *Phragmites australis* Invasions in Tidal Marshes: A Review and Synthesis. *Journal Wetlands Ecology and Management* 14(1) 53-65.
- Seigel, A., C.A. Hatfield, and J.M. Hartman. 2005. Avian Response to Restoration of Urban Tidal Marshes in the Hackensack Meadowlands, New Jersey. *Urban Habitats* 3(1): 87-116.
- Yuhas, C.E., J.M. Hartman, and J.S. Weis. 2005. Benthic Communities in *Spartina alterniflora*– and *Phragmites australis*–Dominated Salt Marshes in the Hackensack Meadowlands, New Jersey. *Urban Habitats* 3(1): 158-191.
- Aronson, M. F. J., C. A. Hatfield, and J. M. Hartman. 2004. Plant community patterns of low-gradient forested floodplain wetlands in a New Jersey urban landscape. *Journal of the Torrey Botanical Club* 131(3): 232-242.
-

RECENT REVIEWED or INVITED PRESENTATIONS and EXHIBITIONS

Hartman, J.M. 2016. Sustainable Raritan Conference. Forest Cover and Watershed Function in the Upper Raritan.

Hartman, J.M. 2016. Friends of the Frelinghuysen Arboretum. Genus Loci: The Spirit of the Garden.

Hartman, J.M. 2016. Garden Club of New Jersey – Environmental Studies Course 3. Environmental Science – Pollution. Ecology and the Atmosphere. Rain Forest Plants. Art in Nature. Environmental Ethics. Earth Stewardship. Wildlife Ecology and Endangerment.

Hartman, J.M. 2016. Garden Club of New Jersey – Environmental Studies Course 4. Aquatic Ecology. Aquatic Plants. Aquatic Animals. Earth Stewardship and Effective Citizenship. Youth Education Programs. Environmental Science of Sustainability.

Buono, C.M., M. Marvosa, E. Nagele, J. J. Quispe, L. Brindisi, J. M. Hartman. 2015. Influence of forest structure and soil composition on watershed performance and management. 100th Annual Ecological Society of America Conference.

Brindisi, L., D. Casey, J. M. Hartman. 2015. Impacts of forest structure on watershed performance. 100th Annual Ecological Society of America Conference.

Quispe, J.J., Rutgers University, J. M. Hartman, C. Buono, D. Blystone, L. Upadhyay. 2015. Influence of riparian forest composition and land use on watershed performance and management planning. 100th Annual Ecological Society of America Conference.

Hartman, J.M., and D. Smith. 2015. Environmental Resources and Issues: Investigation of Design Solutions for Jersey City. Coursework from Fall 2014 11:550:331 exhibited at Casa Colombo in Jersey City. June 11- August 27, 2015.

Hartman, J.M. and A. Bakshi. 2015. Building Studies: An Archive of Jersey City Architecture. Coursework from Fall 2014 Exhibited at Casa Colombo in Jersey City. June 11 – August 27.

Recent Presentations and Exhibits

“Communicating Watershed Processes in a Parking Lot.” 2014. Council of Educators in Landscape Architecture.

“Witnessing History at the Corner: Square 575 of the U.S. Capitol Grounds.” 2014. Council of Educators in Landscape Architecture.

CELA 2014. First Annual Art Exhibit. “Watershed Event” and “Water Table.”

Juried Show: “Synaptic Lab, Ground Water I and Ground Water IV” IN: “Earth Moves: Shifts in Ceramic Art and Design Exhibition” ; Show Juried by National Council on Education for the Ceramic Arts at Arvada Center for Arts and Humanities, September 12 – November 10, 2013. <http://nceca.net/static/2013EarthMoves.php>
<https://www.flickr.com/photos/arvadacenter/sets/72157634872142923/show/with/9410170730/>
Reviewed in: http://media.icompendium.com/shanasal_EarthMoves-Salaff.pdf

“Landscape Alternatives to Lawns.” Organic Lawn Care Certification Course. Jan. 2013. Rutgers New Jersey Agricultural Experiment Station.

“Stormwater Management Practices for Lawrence Brook Watershed.” Exhibition of Student Projects. Milltown Library, Jan. 2013.

“Ground/Water” multiple pieces in Art Exhibition at Sculpture Center, Cleveland, OH. 2011.
http://sculpturecenter.org/show_details/2011_Late_Fall_GroundWater.html

HISTORY OF GRANT SUPPORT

Delaware Watershed Initiative, William Penn Foundation. 2016-2019. Research for Targeting Regulatory Protections to Vulnerable Forests in the Delaware River Watershed. (PI with Co-PI's Karen Capiella and Will Price)

McIntire-Stennis Project, NJAES, Rutgers. 2016-2019. Protection Plans and Needs for Forests in the Raritan Basin, NJ. (PI)

National Fish and Wildlife Federation. 2014-2016. "Use green and grey infrastructure to strengthen Marshes Creek and the local Community in Linden, New Jersey." (Co-PI, with Qizhong Guo (PI), Nicole Fahrenfeld, and JoAnna Burger)

McIntire-Stennis, NJAES, Rutgers. 2013-2016. "The Role of Forested Landscapes in Watershed Management Planning."

McIntire-Stennis, NJAES, Rutgers. 2010-2013. "Patterns of Plant Evolution during Temperate Forest Invasion by *Microstegium vimineum* (Japanese Stilt Grass) and Implications for Forest Management Practices"

National Park Service sub-contract through University of North Carolina-Wilmington. "St. Croix Site Planning Project." 2010-2012. (PI, Collaboration with Holly Nelson and David Tulloch)

Weequahic Park Association. "Forestry and Botanic Inventory and Analysis, and Management Recommendations for Weequahic Park, Essex County, NJ." 2003-2004. (Co-PI, Collaboration with S. Handel)

New Jersey Sea Grant. "Assessing Sediment Transport on Coastal Dunes." 2002-2004. (Co-PI, Collaboration with Karl Nordstrom, and Nancy Jackson)

U.S. Fish and Wildlife Service. "Historical Ecology of the Great Swamp." 2002-2004 (PI, Collaboration with E. Southgate and J. Momsen)

New Jersey Department of Environmental Protection "Testing a Wetlands Mitigation Rapid Assessment Tool at Mitigation and Reference Wetlands Within A New Jew Jersey Watershed." 2000-2002. (Co-PI, Collaboration with C. Hatfield)

Meadowlands Environmental Research Institute. "Vegetation History and Land Use Maps for the Hackensack Meadowlands District." 2000-2001 (PI, Collaboration with E. Russell)

New Jersey Department of Environmental Protection. "Development of Wetland Quality and Function Assessment Tools and Demonstration." 1998-2001 (PI, Collaboration with C. Hatfield)

Hackensack Meadowlands Development Commission. "Monitoring of Three Wetland Restoration Projects." 1998-2006. (PI)

USDA Forest Service. "Reforestation potential of hemlock-hardwood stands following large scale hemlock mortality." 1998-1999. (PI)

NJ Department of Environmental Protection. "Analysis of endangered plant species population health and threats." 1998-2001. (Co-PI, Collaboration with T. Breden, NJDEP) .

New Jersey Department of Environmental Protection. "Assessing The Hydrogeomorphic Model for Wetlands Assessment in New Jersey." 1997-2002. (PI, Collaboration with C. Hatfield)

US National Arboretum. "Recommendations for restoration of Beech Woods." 1997. (PI)

USDA Forest Service. "The Influence of Trees on the appraisal value of urban land." 1996-1999. (PI, Collaboration with S. Strom and D. Tulloch)

Ducks Unlimited/Hackensack Meadowlands Development Commission. "Pre-restoration site analysis for Harrier Meadow." 1996-1998. (PI)

New Jersey Agricultural Experiment Station Special Initiatives. "Establishment of soil processes in restored sites." 1995. (PI)

Clayton Mining Corporation. "Population ecology of the rare plant, *Chrysopsis falcata*." 1994-1997. (PI, Collaboration with S. Handel)

US DOI-NPS. "Affects of Hurricane Andrew on the spread of invasive species." 1994-1997.

Chemical Waste Management Inc. "Ecological Factors Influencing the Restoration of a Population of *Helonias bullata* in a Southern New Jersey Wetland." 1993-1997.

New Jersey Agricultural Experiment Station. "Restoration of community processes in constructed wetlands." 1993-1995

New Jersey Office of State Planning. "The use of geographic information systems in the designation of scenic highways." 1993-94. (PI, Collaboration with Cook College Remote Sensing Center)

New Jersey Department of Transportation. "Wetland mitigation site selection in Passaic County" (Co-PI, Collaboration with Cook College Remote Sensing Center). 1993-1994.

Rutgers Research Council. "The influence of Martha Brookes Hutcheson on Landscape Architecture." 1993.

New Jersey Agricultural Experiment Station. "Potential beneficial uses of municipal solid waste compost for land reclamation." 1992-1995.

New Jersey Department of Environmental Protection and Energy. "Urban Forestry: Applications for Two New Jersey Cities." 1992-1994. (Co-PI, Collaboration with S. Strom)

New Jersey Department of Transportation. "Wetland mitigation for the Route 18 realignment project." 1992-1993. (Co-PI, Collaboration with Cook College Remote Sensing Center)

McIntire-Stennis Project 84301, New Jersey Agricultural Experiment Station. "Controls of native plant establishment and persistence." 1988-1997.

HONORS AND AWARDS

2015-17	Faculty Leading Change. Committee Member.
2010	Synapse Group, Invited Member (ongoing)
2007	Certificate of Appreciation. "Outstanding Service In Efforts to Advance the Profession of Landscape Architecture." NJASLA
2002-5	Visiting Professor of Restoration Ecology. Three Gorges University, Yichang, Hubei Province, Peoples Republic of China.
1997	NJ APA Creative Planning Award with March Associates for Lubbers Run Greenway Design.
1995	NJASLA Honor Award for Communication, with R. Wood and S. Strom.
1995	NJASLA Merit Award for Landscape Planning, with S. Strom.
1995	Certificate of Appreciation. New York City Audubon Society.
1994	Award of Distinction. Council of Educators in Landscape Architecture.
1992	Merit Award for Research, American Society of Landscape Architects, New Jersey Chapter.
1992	Creative Land Planning Award for Tewksbury Open Space Study. New Jersey Federation of Planning Officials.
1991	Citation of Merit for Creative Design. New Jersey Federation of Planners.
1990	Faculty Advisor - 3rd Place. Environmental Management Competition, Environmental Expo Advisory Board and New Jersey Department of Environmental Protection.
1990	Faculty Advisor - Honorable Mention. Environmental Management Competition, Environmental

Expo Advisory Board and New Jersey Department of Environmental Protection.

THESES DIRECTED

Jennifer Ryan. 2017. MLA. Consider the Shrub: Ecology and Design in Parking Lots.

Bo Young Park. 2016. MLA. The relationship between land use and water quality in two sub-watersheds of the Raritan river, NJ.

Ellen Oettinger. 2016. MLA. Environmental Effects of Road Design: Using Spatial Analysis to Trace Design History.

Tyson Triplett. 2015. MLA. Best Management Practices for Warm Season Grass Meadows.

Adam Cesanek. 2013. MLA. Artful Rainwater Design in the Emerald City: Classifying Philadelphia's Stormwater Management Systems.

Ari E. Novy. 2012. Ph.D. Plant Biology. Evolutionary and demographic processes in the invasive weed *Microstegium vimineum*. xiv, 201p.

Joseph Cherichello. 2012. MLA. The ecological design of a trail system through a brownfield redevelopment at Liberty State Park. 133 p.

Alexandra Emily Chen Fowler. M.S. Plant Biology. 2011. The long-term impact of initial resource availability and seed bank on woody vegetation during early succession on the New Jersey Piedmont. xix, 140 p. : ill.

Bonnie Farrell. M.S. Plant Biology. 2008. Histological documentation and ecological implications of bulbils in *Aconitum noveboracense* (RANUNCULACEAE), a federally protected, threatened plant species.

Jennifer Momsen. Ph.D. Ecology and Evolution Graduate Program. 2007. Multi-scale approach to reconstructing landscape history in the Great Swamp National Wildlife Refuge, Morris County, New Jersey.

Polly Hicks. M.S. Ecology and Evolution Graduate Program. 2004. Seed dispersal dynamics and vegetation community development in a restored brackish marsh: implications for restored brackish marsh: implications for restoration and management.

David Bart. Ph.D. Ecology and Evolution Graduate Program. 2003. Environmental determinants of *Phragmites australis* invasion in a New Jersey salt marsh: Interactions among human activities, disturbance, and edaphic conditions.

Jocelyn Tutak. 2003. G.H. Cook Honors Thesis. Patterns of seedling establishment in Kearny Marsh, New Jersey.

Myla Johnson. 2002. Floodplain forest vegetation, soils, and land use of the Upper Passaic River Basin, NJ.

Cathy Yuhas, M.S. Environmental Science, NJIT. 2001. Benthic communities in *Spartina alterniflora* and *Phragmites australis* dominated salt marshes.

Julie Conklin. G.H. Cook Honors Thesis. 2001. Effects of herbivores on selected salt marsh flora.

Diana Raichel. M.S. Ecology and Evolution Graduate Program. 2000. The influence of *Phragmites* dominance on marsh nekton.

JoAnna Hebberger. Ph.D. Ecology and Evolution Graduate Program. 2000. The effects of soil amendments on Mycorrhizae and growth of *Quercus rubra* (Northern Red Oak) seedlings.

Jamie Morf. B.S. Departmental Thesis. 2000. College Avenue Campus Gateways: Analysis and Proposals.

Sylvan Kaufman. Ph.D. Ecology and Evolution Graduate Program. 1999. The effect of habitat and species characteristics on the invasiveness of *Melaleuca quinquenervia* (Cav.) Blake.

Eliza Goodwin. M.S. Ecology and Evolution Graduate Program. 1999. The influence of some environmental factors on germination and early seedling growth of *Nartheicum americanum* Ker Gawler (Liliaceae).

Melanie McCool. G.H. Cook Honors Thesis. 1998. Avian community ecology in the hemlock forest of northern New Jersey: Possible response to hemlock decline.

Claire Homitzky. G.H. Cook Honors Thesis. 1997. Prospects for a sustainable agriculture in Greene County, NY.

Andrew Bersch. Rutgers Honors Thesis. 1996. Genetic variation in five populations of swamp pink, *Helonias bullata* (Liliaceae).

Lisa Boyles. M.S. Ecology and Evolution Graduate Program. 1996. Use of municipal solid waste compost in landscape restoration.

Owen Boyle. G.H. Cook Honors Thesis. 1996. Reestablishment of Atlantic White Cedar after fire.

Denise Royle. M.S. Ecology and Evolution Graduate Program. 1996. Monitoring Hemlock Decline in Northern New Jersey.

Jill Dodds. M.S. Plant Biology Graduate Program. 1995. Restoration of *Helonias bullata* to its natural habitat.

Robert Jordan. Ph.D. Ecology and Evolution Graduate Program. 1993. Demography and Recruitment in Shrub Communities of *Acer rubrum* Swamp Forests of Central New Jersey.

Mike Van Clef. G.H. Cook Honors. 1993. Effects of Habitat Isolation on the Reproductive Biology of *Cornus amomum*.

Dawn Holt. G.H. Cook Honors, 1993. Habitat Assessment Techniques for the Wood Turtle.

Michael Renda. M.S. Ecology and Evolution Graduate Program. 1991. Dispersal, Germination, and Establishment patterns of Eastern Red Cedar, *Juniperus virginiana* L.

Denise Royle. G.H. Cook Honors, 1990. Martha Brookes Hutcheson and her Influence on the American Landscape.

Masters Projects Directed

Matt Sudberg. 2014. Understanding Lateral Effects of Human Development Through the Use of Integrated Watershed Modeling Systems. M.L.A.

Kristopher A. Kemper. 2013. Transforming a Former Airfield for Grassland Bird Conservation and Education. M.L.A.

Eric Maietta. 2013. Exploring the Influence of Climate Change on Native Shrubs of the Northeast. M.L.A.

Current Graduate Program Committees

Jennifer Ryan. (April 2016 -2017) Landscape Architecture. Chair. MLA Completed.

Lara Brindisi. (August 2016- 2017) Plant Science. Committee Member. B.S. Completed.

Breanna Robles. (April 2016-present) Landscape Architecture. Committee Member. MLA Completed.

Kate Douthat. (Sept. 2016-present) Ecology and Evolution, Ph.D. Chair.

Johnny Quispe. (Sept. 2015- present) Ecology and Evolution. Ph.D. Chair.

Ellen Oettinger. (April 2014-2016) Landscape Architecture. Chair. MLA Completed.

Boyoung Park. (April 2014-2016) Landscape Architecture. Chair. MLA Completed.

Breanna Roble. (April 2014- 2016). G.H. Cook Thesis. Reader. Completed.

Joseph Rua. (June 2014 – present) Ecology and Evolution. Chair. To be completed March 2016.

Xiaoxia Wang. (April 2013 – 2015) Landscape Architecture. Member. MLA Completed.

Han Yan. (April 2013-May 2014) Landscape Architecture. Member. MLA Completed.

Kristine Kopia. (April 2012-May 2013) Landscape Architecture. Member. MLA Completed.

Mukta Jadhav. (April 2012-May 2013) Landscape Architecture. Member. MLA Completed.

Eliot Nagele. (April 2011- present). Independent Study and G.H Cook Thesis. Advisor.

Kimberly Corbo Nuccio (April 2011-May 2012) Landscape Architecture. Member. MLA Completed.

Laura Shappell. (2010-2016) Ecology and Evolution. Member. Ph.D. completed Jan. 2016
