

Daniel J. Marcucci, PhD, MLA, AICP

Research Interests

Holistic Landscapes, Climate Change Adaptation, Green Infrastructure, Coastal Management, Environmental Impact Analysis, Urban Environments, Sustainably Global Systems

Education

Ph.D. University of Pennsylvania, Philadelphia, City and Regional Planning

- Dissertation: *Planning a Changing Landscape: Ecology, History, and Planning at Long Pond, Pennsylvania*. Advisor: C. Dana Tomlin, with examiners Seymour Mandelbaum, James F. Thorne, and Christa Wilmanns-Wells

Master of Landscape Architecture. University of Pennsylvania, Philadelphia, PA

- Studied with Ian McHarg
- Graduate Research Assistant for Anne Whiston Spirn on the West Philadelphia Landscape Plan

M.A. University of Pennsylvania, Philadelphia, City and Regional Planning

B.A. Harvard University, Cambridge, MA, Mechanical Engineering

Certification

American Institute of Certified Planners, #022689

Employment History

Virginia Tech, Center for Leadership in Global Sustainability

- Faculty and Fellow, 2014 – present
- Develop and deliver online courses on global sustainability

University of Massachusetts – Amherst, Department of Landscape Architecture and Regional Planning

- Adjunct Instructor, Summer 2014, 2015

East Carolina University, Planning Program, Department of Geography

- Assistant Professor, 2006 –2013
- Principal Investigator, Mid-Currituck Bridge Study, built team and led \$955,000 project
- Affiliate Faculty, Center for Sustainable Tourism
- Affiliate Faculty, Institute for Coastal Science and Policy

South Central Assembly for Effective Governance

- Director of Planning and Research, 2005 - 2006
- Regional Planner, South Central Assembly for Effective Governance, 2003 - 2005

York College of Pennsylvania

- Adjunct Lecturer, January, 2004 - 2005

Gettysburg College, Environmental Studies Program

- Visiting Assistant Professor, Spring, 2000
- Assistant Adjunct Professor, Fall, 1999

Consulting

- Town of Nashville, NC, Comprehensive Plan Commission, 2007-2008
- Pennsylvania Planning Association, 2002 – 2003
- Benatec Associates, 1997 – 1998

A-Frame Software

- Director of Sales and Marketing, 2001-2002
- Responsible for \$1.5 million in sales

SCAN Furniture

- Sales

Black and Decker

- Junior Manufacturing Engineer

RESEARCH AND PROFESSIONAL WORK

Blog

Lay of the Landscape – simple stories of complex places. (layofthelandscape.com)

Podcast

Wired Ivy — a virtual salon for real academics in online classrooms. (wiredivy.org)

Publications

Peer Reviewed Articles/Proceedings

Marcucci, D. J. & Jordan, L. M. (2013). Benefits and Challenges of Linking Green Infrastructure and Highway Planning in the United States. *Environmental Management*. 51:182–197.

Crawford, T; Marcucci, D.J.; Bennett, A.T. (2013). Impacts of residential development on vegetation cover for a remote coastal barrier in the Outer Banks of North Carolina, USA. *Journal of Coastal Conservation: Planning and Management*. 17 (3): 431-443.

Hamin, E.M; Marcucci, D.J (2013). Mainstreaming Climate in the Classroom: Teaching Climate Change Planning. *Planning Practice and Research*. 28 (4): 470-488.

Wang, Y.; Deng, X; Marcucci, D.J.; Le, Yuen (2013). Sustainable Development Planning of Protected Areas near Cities: a Case Study in China. *Journal of Urban Planning and Management*. 139 (2): 133–143.

Crawford, T; Bradley, D.; Marcucci, D.J. (2013). Impacts of In-migration and Coastal Amenities on Housing Growth in Coastal North Carolina, USA. *Population, Space and Place*. 19 (3): 223-238.

Marcucci, D. J.; Brinkley, J. D.; Jordan, L. M. (2012). A Case for Coastal Theory with Lessons from Planning Theory. *Coastal Management*. 40 (4): 401-420.

- Marcucci, Daniel J.; Jordan, Lauren M. (2010). Overlaying State and County Green Infrastructure Planning with Regional Transportation Planning. *Proceedings of Fábos Conference on Landscape and Greenway Planning 2010*.
- Marcucci, Daniel J.; Brinkley, James D.; Jordan, Lauren M. (2010). Five Concepts in Planning Theory Useful to Coastal Management. *Proceedings of the 22nd National Conference*. The Coastal Society.
- Hamin, E. M. & Marcucci, D. J. (2008). Ad Hoc Rural Regionalism. *Journal of Rural Studies*. 24 (4): 467-477.
- Marcucci, D. J. (2000). Landscape History as a Planning Tool. *Landscape and Urban Planning*, 49: 67-81.
- Hamin, E. M., Marcucci, D. J., & Wenning, M. (2000). The Experience of New Planning Faculty. *Journal of Planning Education and Research*, 20: 88-99.

Research Reports and Monographs

- Marcucci, D. J., Principal Investigator. East Carolina University & Parsons Brinckerhoff (2011). *Mid-Currituck Bridge Study: Indirect and Cumulative Effects Technical Report* (revised). Prepared for North Carolina Turnpike Authority. (226 pages)
- Marcucci, D.J., Principal Investigator. (forthcoming) "Section 3.6 Indirect and Cumulative Effects." In: Parsons Brinckerhoff in association with: CZR Incorporated/East Carolina University/Panamerican Consultants/ Howard Stein – Hudson, Incorporated/PBS&J. *Mid-Currituck Bridge Study Currituck and Dare Counties, North Carolina, Final Environmental Impact Statement*. Prepared for North Carolina Turnpike Authority.
- Marcucci, D.J. and Wang, Y. (2011). "Mid-Currituck Bridge Project – Bridge Deck Runoff Impacts and Mitigations." Project Technical Memorandum to North Carolina Turnpike Authority.
- Marcucci, D.J., Principal Investigator. (2010) "Section 3.6 Indirect and Cumulative Effects." In: Parsons Brinckerhoff in association with: CZR Incorporated/East Carolina University/Panamerican Consultants/ Howard Stein – Hudson, Incorporated/PBS&J. *Mid-Currituck Bridge Study, Currituck and Dare Counties, North Carolina, Draft Environmental Impact Statement*. Prepared for North Carolina Turnpike Authority. Pp. 3-81 to 3-99.
- Marcucci, D. J., Principal Investigator (2009). East Carolina University & Parsons Brinckerhoff, *Mid-Currituck Bridge Study: Indirect and Cumulative Effects Technical Report*. Prepared for North Carolina Turnpike Authority. (196 pages)
- Marcucci, D. J. (2010) "Bicycle/Pedestrian Lane Planning on Long Bridges." Project Technical Memorandum to North Carolina Turnpike Authority.
- Marcucci, D. J., Brent, J.A., & Bennett, A.T., (2009). "Maple Swamp Feasibility Study Report." Prepared for North Carolina Turnpike Authority.
- Marcucci, D. J., & Blizzard, A., (2008). "Mid-Currituck Bridge Study: Indirect and Cumulative Impacts Technical Appendix". Prepared for North Carolina Turnpike Authority.
- Marcucci, D. J. (2008). *Study of Community Opinions: Town of Nashville, North Carolina*. Prepared for Town of Nashville Comprehensive Plan Committee.
- Marcucci, D. J. (2005). *The Mason-Dixon Dilemma: Assessing the Impacts of Regional Growth Patterns in the Chesapeake Watershed Region*. Middletown, PA: South Central Assembly for Effective Governance.
- Spirn, A. W. & Marcucci, D. J. (1991). *Models of Success: Landscape Improvement and Community Development*, Philadelphia: Graduate School of Fine Arts, University of Pennsylvania.

Invited Articles/Reviews/Proceedings

- Marcucci, D.J. (2012). Book Review: *Regional Planning for a Sustainable America: How Creative Programs are Promoting Prosperity and Saving the Environment*, edited by Carleton K. Montgomery. *Journal of Regional Science*. 52(3), 525-7. DOI: 10.1111/j.1467-9787.2012.00780_12.x
- Crawford, T and Daniel J. Marcucci (2010). “North Carolina’s Final Coastal Frontier: Changing Landscapes, People, and Places. Proceedings of Shape of the Coast 2010, The University of North Carolina – Chapel Hill, School of Law.
- Marcucci, D. J. (2009). “Planning for Sea Level Rise: Managing the Coastal Mosaic” in *North Carolina Sea Level Rise Project: Application to Management*. NOAA Workshop White Paper. October 2009. Pp. 17-18.
- Marcucci, D. J. (2007). Book Review: *Measuring Landscapes: A Professional Planner's Manual* by André Botequilha Leitão, Joseph Miller, Jack Ahern, and Kevin McGarigal. *Journal of Planning Education and Research*, 26 (4), 518-519.

Research Grants

Funded-External

Mid-Currituck Bridge Study – Task Order 3: Total Amount funded: \$597,164
Marcucci, D. J. (PI and Project Director).
North Carolina Department of Transportation.
January 2009 – December 2011

Mid-Currituck Bridge Study – Task Order 2: Amount funded: \$193,486.
Marcucci, D. J. (PI – Natural Environment Team.)
North Carolina Department of Transportation,
February 2008 – December 2008

Mid-Currituck Bridge Study – Task Order 1: Amount funded: \$164,317
Marcucci, D. J. & Blizzard, A. F. (PIs – Natural Environment Team.)
North Carolina Department of Transportation,).
February 2007 – January 2008

Funded-Internal

2007 “Dune district management alternatives”
Research Development Summer Grant, Coastal Maritime Council, East Carolina University.
Gares, P., Allen, T., Landry, C., & Marcucci, D.J.,
Amount funded: \$20,000

Presentations of Research Papers

International

- Marcucci, Daniel J. & Wang Yuhong (2012, June). “Nonpoint Source Pollution from Coastal Bridges.” The Coastal Society’s 23rd International Conference. Miami, FL.
- Marcucci, Daniel J. & Jordan L. M. (2010, July). “Connecting Green Infrastructure Planning with Transportation Planning.” Fábos Conference on Landscape and Greenway Planning, Budapest, Hungary.

- Marcucci, D. J. (2010, June). "Applying Planning Theory to Coastal Resource Management." The Coastal Society's 22nd International Conference. Wilmington, NC.
- Swain, D. F. & Marcucci, D. J. (2010, June). Long-Term Planning for Coastal Pasquotank County-Elizabeth City, North Carolina. The Coastal Society's 22nd International Conference. Wilmington, North Carolina.
- Crawford, T.; Marcucci, D; Bennett, A (2010). "Linkages of Coastal Policy with Patterns of Land Development and Impacts on Vegetation Cover for a Remote Barrier Island in North Carolina, USA." Annual Meeting of the Association of American Geographers, Seattle, Washington.
- Marcucci, D. J. & Jordan, L. M. (2008, July). "Determining the Carbon Impacts of a Vehicular Bridge Project." Presented at ACSP/AESOP Fourth Joint Congress, Chicago, Illinois.
- Marcucci, D. J. & Bennett, A. T. (2008, June) "A path in the sand: The strange history and uncertain future of the Northern Currituck Banks." International Symposium on Society and Resource Management, Burlington, Vermont.
- Marcucci, D. J. (2007, June). "Landscape change and planning in coastal North Carolina: a strategy for a long-term landscape model for Currituck County." International Symposium on Society and Resource Management, Park City, Utah.
- Marcucci, D. J. (1991, July). "Suburban Reforestation Strategies for Lansdowne, PA." International Association for Landscape Ecology, Ottawa, Canada.

National

- Marcucci, Daniel J. & McDonnell, Dylan. (2012, April). "Mapping the Roanoke-Albemarle Region as a climate adaptation mega-corridor." United States Chapter – International Association for Landscape Ecology. Newport, RI
- Crawford, Thomas W.; Marcucci, Daniel J. & Bennett, Andrew T. (2012, April) "Impact of Policy and Parcel Development on Barrier Island Vegetation Patterns in North Carolina, USA. United States Chapter – International Association for Landscape Ecology. Newport, RI
- Marcucci, Daniel J. (2011, October). "A Call for Ecoregional Planning for Climate Change Adaptation." Association of Collegiate Schools of Planning, Salt Lake City, Utah.
- Marcucci, Daniel J. (2011, April). "Landscape-scale green infrastructure as a climate change adaptation strategy." United States Chapter – International Association for Landscape Ecology. Portland, Oregon.
- Marcucci, D. J. & Jordan, L. M. (2010, October). "Overlaying State and County Green Infrastructure Planning with Regional Transportation Planning." Association of Collegiate Schools of Planning, Minneapolis, Minnesota
- Marcucci, D. J. (2009). "A Theoretical Rationale for the Role of Landscape Planning." Association of Collegiate Schools of Planning, Crystal City, Virginia.
- Bennett, A., Crawford, T., & Marcucci, D. J. (2009). "Sand Castles in the Banks." American Planning Association, Minneapolis, Minnesota.
- Marcucci, D. J. & Bennett, A. (2009, January). "Removing Road Access as a Keystone Process: A Case Study of Landscape Change in Coastal North Carolina." Council of Educators in Landscape Architecture, Tucson, Arizona.
- Marcucci, D. J. (2007, October). "Extending Long Term Landscape Planning for an Urbanizing Landscape: Sound Planning in Currituck, NC." Association of Collegiate Schools of Planning, Milwaukee, Wisconsin.

- Marcucci, D. J. (2000, April). "Landscape Fragmentation as a Function of Agricultural Preservation Zoning: A Comparison of Two Townships in York County, Pennsylvania." International Association for Landscape Ecology -- United States Region, Fort Lauderdale, Florida.
- Marcucci, D. J. & Claggett, P. (2005, October). "Assessing a Local Landscape in the Chesapeake Watershed: The Mason-Dixon Zone." Pennsylvania Planning Association, Bethlehem, Pennsylvania.
- Hamin, E. & Marcucci, D. J. (1998, November). "The New Faculty Experience in Planning." Association of Collegiate Schools of Planning, Pasadena, California.
- Marcucci, D. J. (1998, March). "Landscape Change and Planning at Long Pond, Pennsylvania." International Association for Landscape Ecology -- United States Region, East Lansing, Michigan.
- Marcucci, D. J. (1997, November). "The New Challenge for Landscape Planning." Association of Collegiate Schools of Planning, Fort Lauderdale, Florida.
- Marcucci, D. J. (1997, March). "History as a Tool for Planning Evolving Landscapes." International Association for Landscape Ecology -- United States Region, Durham, North Carolina.

Invited Professional Presentations/Lectures

- "Landscapes in the 21st Century: The Quiet Crisis." Department of Geography Colloquium, Virginia Tech University. September 21, 2018.
- National Creating Whole Communities Think Tank. Organized by GP-RED, Denver, CO. July 8-10, 2012.
- "Bridging Environmental and Transportation Planning: Lessons from the Mid-Currituck Bridge Project." Department of Geography Colloquium, East Carolina University. September 16, 2011
- "Taking the Long View in Landscape Planning: With a Closer Look at Currituck, North Carolina." Appalachian State University. April 21, 2011.
- "Complex Models of Consultant-Client Relationships in Landscape Architecture." Texas A&M University, March 28, 2011.
- "Downtown Nashville" presented to the Nashville, NC Town Council. January 13, 2011.
- "Patterns and Impacts of Demographic and Land Use Change in Coastal North Carolina" presented with Thomas Crawford at The Shape of the Coast 2010 program organized by University of North Carolina – Chapel Hill School of Law in New Bern, NC, November 5, 2010
- "Clean Water Act and Geography and Planning" in Ms. Victoria Bridgers AP US Government class at South Central High School in Winterville, NC, October 22, 2010.
- "It is a wild and desert region... covered with forests." Invited lecture give at The South Mountain Summit. Huntsdale, PA. February 19, 2010.
- "South Mountain: Cradle of Conversation." Panel Discussant for the South Mountain Speaker Series: Environmental Discussion in the Spirit of the Michaux Lectures. Chambersburg, PA. February 18, 2010.
- "Planning for Sea-Level Rise: Managing the Coastal Mosaic." Invited presentation at the NC Sea Level Rise Project Final Meeting – NOAA, Morehead City, North Carolina. July 2009.
- "Mid-Currituck Bridge Indirect and Cumulative Effects Reports." Invited presentation at North Carolina Turnpike Authority -- Turnpike Environmental Advisory Committee (TEAC), Raleigh, North Carolina. October, 2008

“The Mason-Dixon Effect: Leapfrogging Development of Maryland Cities in Southern Pennsylvania. Invited presentation at the Center for Urban Environmental Research and Education, University of Maryland, Baltimore County. October 29, 2004.

Review/Commentary

Panels Moderated/Commentated

“Session 3.4 – Coastal Planning and Management” (2011) Discussant/Moderator at Association of Collegiate Schools of Planning 52nd Annual Conference. Salt Lake City, Utah.

“Session 3.13 – Planning Problem Lands: What to do with Waste and Brownfields?” (2010). Discussant at Association of Collegiate Schools of Planning 51st Annual Conference. Minneapolis, Minnesota.

“Session 3.8 – Habitat and Biodiversity Planning.” (2008) Discussant at Association of Collegiate Schools of Planning Annual Conference. Chicago, Illinois.

Journals Edited

2011 *Natural Hazards Review*, guest editor

Papers Refereed

2017 *Journal of Environmental Planning and Management*

2016 *Landscape and Urban Planning*

2015 *Landscape and Urban Planning*

Landscape Research

2014 *Landscape and Urban Planning*

Journal of Infrastructure Systems

Ocean and Coastal Management

Town Planning Review

2013 *Town Planning Review*

Ocean and Coastal Management

2011 *Landscape Ecology*

Natural Hazards Review

Ocean and Coastal Management

2009 *Journal of Human Ecology*

Journal of Environmental Planning and Management

Landscape Ecology

Task Force/Stakeholder Work

South Mountain Landscape Initiative, 2005 - 2007

South Central Pennsylvania Regional Goods Movement Task Force, 2004 -2006

TEACHING AND MENTORING

Virginia Tech Courses (2014 – present)

- NR 5174: Sustainability Systems
- NR 5884: Landscape Systems and Strategies
- NR 5884: Coastal and Marine Systems
- NR 5214: Urban Water Systems (formerly NR 5884)
- NR 5884: Sustainability Systems – Living in the Biosphere
- NR 5114: Global Issues in Natural Resources (includes Global Field Experience in China)
- NR 5114: Global Issues in Sustainability (includes Global Field Experience in Argentina) (in development)

U Mass –Amherst Course (2014, 2015)

- LandArch 547: Landscape Pattern and Process

ECU Courses (2006 – 2013)

- PLAN 3020: Environmental Planning
- PLAN 4096: Planning Studio
- PLAN 4305: Ecological Landscape Planning
- PLAN 5025: Coastal Area Planning and Management
- PLAN 5045: Environmental Resources Planning and Management
- PLAN 6009: Research in Urban Planning – Advanced Planning Theory
- PLAN 6020: Seminar in Environmental Planning
- PLAN 6029: Research in Environmental Planning
- PLAN 6305: Development Planning and the Environment

York College of Pennsylvania Courses (2004 – 2005)

- Introduction to Geography

Gettysburg College Courses (2000 – 2001)

- Introduction to Geography
- Landscape – A multidisciplinary concept
- Senior Capstone Project

Student Mentoring

- Dissertation Chair, PhD Coastal Resources Management
 - Lauren M. Jordan: *Exploring the Role of Knowledge in Green Infrastructure Planning*. 2012
 - April W. Evans: *An Analysis of Waterfowl Management in the South Atlantic Region of the Marine Protected Area Network*. 2013
- Dissertation Reader, PhD Coastal Resources Management
 - Jingyuan Li: *Community flood hazard mitigation and the Community Rating System of National Flood Insurance Program*. 2012

- Andrew Bennett: *Characterizing Patterns and Drivers of Land Use Land Cover Change Along the Atlantic Coast Barrier Islands: Examining the Roles of Development Pressure, Spatial Accessibility, and Policy*. 2013
- Thesis Advisor, MA Geography
 - Andrew Bennett: *Combining the Tools of Smart Growth and Citizen Participation*. 2009
 - James Edwards: *Carolina Bay Landscape Position: An Analysis of Spatial Variability*. 2011
- Graduate Student Committees
 - Served on 10 additional masters' thesis committees in planning, geography, and landscape architecture
- BS Urban and Regional Planning Advisor
 - Approximately 15 advisees per semester while at ECU
- Graduate Research Assistants Supervised
 - Directly supervised 12 graduate research assistants

Guest Lectures at East Carolina University

“Conservation AND Development Drivers of Landscape Tourism.” Invited Lecture for SUTO 6100 at East Carolina University. September 9, 2011.

“Rebuilding Greensburg, Kansas.” Invited lecture for PLAN 1900 Planning for the Human Environment. March 25, 2011.

Center for Sustainable Tourism, East Carolina University. Meet and Greet and Learn panel discussant. February 28, 2011

“Conservation and Control: The Case of the Red Cockaded Woodpecker.” Guest lecture to Dr. Holly Hapke’s GEOG 4325/6325 (Resources, Populations and Development), March, 4, 2010.

“Organizing a Professional Planning Project.” Guest lecture for Dr. Wubneh’s PLAN 4099 Practicum in Planning. January 11, 2010.

“What Shapes the Coastal Mosaic, or Reading the Coast.” Guest lecture to Lorry King’s CRM 6100 Introduction to Coastal Problems and Their Management. October 16, 2009.

“Organizing a Professional Planning Project.” Guest lectures for Dr. Wubneh’s PLAN 4099 Practicum in Planning. April 12 and February 2, 2009.

“Where on the Coast is ...?” Guest Lecture to Dr. Gares’s COAS 2025 Survey of Coastal and Marine Resources. October 28, 2008.

“Environmental Issues in Transportation.” Guest Lecture to Mr. Hankins’s PLAN 3015 Planning for Circulation. April 16, 2008.

SERVICE

East Carolina University

- Graduate Planning Coordinator, 2007- 2012
- Graduate School Faculty Member
- Coastal Resources Management Program, Affiliate Faculty Member
- Center for Sustainable Tourism, Affiliate Faculty Member
- SPAN (Student Planners’ Action Network), Faculty Advisor, 2008 – 2010

- Department of Geography Assignments
 - Advisory Committee, 2006-07, 2007-08, 2010-11, 2011-12
 - Graduate Program Committee, 2007-08 through 2010-11
 - Personnel Committee, 2009-10
 - Planning Program Committee, 2006-2007 through 2011-2012
 - Search Committee for Planning Assistant Professor, 2009-10
 - Search Committee for Planning Program Director, 2009-10
 - Unit Code Revision Committee, 2007-08 through 2008-09
- College and University Appointments
 - Center for Sustainable Tourism Affiliate Faculty
 - Coastal and Marine Studies Minor Advisory Committee
 - PhD in Coastal Resources Management Advisory Committee
 - Graduate School Faculty

Professional Memberships (current and recent)

American Institute of Certified Planners

American Planning Association

American Society of Environmental History/Forest History Society

American Society of Landscape Architects

International Association of Society and Natural Resources

International Association for Landscape Ecology

The Coastal Society