

David C. Smith

Curriculum Vitae

Rutgers, the State University of New Jersey, Department of Landscape Architecture

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Education	Master of Science in Ecology 2012 <i>Rutgers, The State University of New Jersey</i> <i>School of Environmental and Biological Sciences, New Brunswick, NJ</i>
	Graduate Certificate in Geospatial Information Science 2011 <i>Rutgers, The State University of New Jersey</i> <i>School of Environmental and Biological Sciences, New Brunswick, NJ</i>
	Post-baccalaureate coursework in Biology 2006-2008 <i>Rutgers, The State University of New Jersey</i> <i>College of Arts and Sciences, Camden, NJ</i>
	Post-baccalaureate coursework in Biology 2004-2006 <i>University of Pennsylvania</i> <i>College of General Studies, Philadelphia, PA</i>
	Bachelor of Arts in Visual Arts 1997 <i>Antioch College</i> <i>Yellow Springs, OH</i>
Teaching Experience	Assistant Teaching Professor 2020 - Present Instructor 2013 - 2020 <i>Rutgers, The State University of New Jersey</i> <i>Department of Landscape Architecture, School of Environmental and Biological Sciences</i>
	Courses Taught
	<i>Spatial Data Visualization and Map Design</i> 2016 – Present
	<i>Introduction to Geomatics (3 cr.) – Grad</i> 2015 – Present
	<i>(co-instructor) Environmental Planning Studio (5 cr.) – Undergrad</i> 2015 – 2017
	<u>Studio Topics:</u>
	Passaic Valley Regional Planning & Design Studio 2017
	Bergen County Parks Master Plan 2016
	Trenton 250 Master Plan 2015
	<i>Fundamentals of Environmental Geomatics (3 cr.) – Undergrad</i> 2014-Present
<i>Advanced Remote Sensing (3 cr.) – Grad/Undergrad</i> 2014	
<i>(co-instructor) Intermediate Landscape Architecture (5 cr.) – Undergrad</i> 2013 - 2014	
<u>Studio Topics:</u>	
Identifying and Responding to Issues and Opportunities in Jersey City 2014	
Superstorm Sandy Resiliency in Monmouth County 2013	
<i>Fundamentals of Environmental Geomatics Lab (1cr.) – Undergrad</i> 2013-Present	

Teaching Experience (Contd.)	Teaching Assistant	2009-2011
	<i>Rutgers, The State University of New Jersey</i>	
	<i>Department of Landscape Architecture, School of Environmental and Biological Sciences</i>	
	Courses Taught	
	<i>Intermediate Environmental Geomatics Lab</i>	Spring 2011 & 2010
	<i>Fundamentals of Environmental Geomatics Lab</i>	Fall 2010
	<i>Field Techniques in Ecology and Natural Resources</i>	Spring 2010 & 2009
	Guest Lectures	
	<i>"A guide, a story, and a work of art: Basic map design"</i>	Spring 2011
	<i>"Maps!: Understanding basic cartography"</i>	Fall 2010
<i>"Here there be monsters: Map design and geovisualization"</i>	Spring 2010	
Single Lessons		
<i>Advanced Environmental Geomatics</i>	Spring 2010 & 2011	
<i>Advanced Remote Sensing</i>	Spring 2011	
<i>Aerial Photo Interpretation</i>	Fall 2010 & 2013	
Labs Developed		
<i>"Hunting the elusive wild shapefile: An introduction to geographic data acquisition"</i>	Spring 2011	
<i>"ModelBuilder"</i>	Spring 2011	
Graduate Thesis Committees	Samuel Ferrara	2020
	<i>"The Contemporary Sublime: Progressing the Human Environment Relationship"</i>	
	Mark Robison	2020
	<i>"The Great American Squirrel Trail"</i>	
Jillian Dorsey	2019	
<i>"The Lower Raritan Watershed: A Resident's Guide to Stewardship"</i>		
Megan Pilla	2016	
<i>"Stream bank revitalization in Somerville, New Jersey: A case study in planning strategy for the integration of ecological and social needs in public open space"</i>		
External Thesis Committees	Leslie O'Hara; Memorial University of Newfoundland	2021
	<i>"The effects of maps on the stakeholder engagement process of marine spatial planning and management"</i>	
Undergraduate Research Support	G. H. Cook Honors Theses	
	Reader: Morgan Crooks	2020
	<i>"The spatial distribution of spring ephemeral species in an old-growth forest"</i>	
Co-advisor: Daryl Krasnuk	2017	
<i>"Remote Sensing and Snow Cover Trends in Unglaciated Regions of Greenland"</i>		
Administrative Positions	Coordinator, Environmental Geomatics Minor	2016 - Present
	Coordinator, Environmental Geomatics Certificate	2015 - Present

Administrative Committees	Environmental Geomatics Curriculum Committee (Chair) <i>Rutgers University – School of Environmental and Biological Sciences</i>	2014 – Present
	Undergraduate Curriculum Committee <i>Rutgers University – Department of Landscape Architecture</i>	2013 - Present
	Archiving and Publicity Committee <i>Rutgers University – Department of Landscape Architecture</i>	2014 - 2015
Student Engagement	Faculty Advisor <i>Graduate Student Landscape Architecture Club</i>	2018 - 2019
	Faculty Advisor <i>Environmental Planning and Design Club</i>	2015 - 2016
Professional Organizations and Affiliations	New Jersey Geospatial Forum	2019 - Present
	New Jersey Geospatial Forum Trails Taskforce	2019 - Present
	North American Cartographic Information Society (NACIS)	2017 - Present
	Council of Educators in Landscape Architecture (CELA)	2014 - Present
Ongoing Research	<i>“Delaware Watershed Initiative, William Penn Foundation. 2016-2019. Research for Targeting Regulatory Protections to Vulnerable Forests in the Delaware River Watershed.” (Co-Investigator with PI’s, Jean Marie Hartman, Karen Capiella and Will Price)</i>	
Publications	Hartman, J.M., D. Smith, Z. Tech-Czarny, J. Quispe. 2017. Jersey City Environmental Resource Inventory, Rutgers – The State University of New Jersey. 100 pp. Plus Appendices.	
	Smith, David, H. Merring, [New Jersey State Parks and Forest Brochure Maps]. Map Series. Scale varies. 2013.	
	<i>Barnegat Bay-Great Bay Land Cover for Coastal Habitat (2007)</i> . Scale 1:10,000. Center for Remote Sensing and Spatial Analysis. 2013.	
	<i>Lathrop, Richard and David Smith. “Application of Light Detection and Ranging (LiDAR) Data to Support Science-Based Management of Salt Marsh and Barrier Island Habitat in Marine Protected Networks.”</i> Grant F. Walton Center for Remote Sensing and Spatial Analysis, Rutgers University. 2013. http://crssa.rutgers.edu/projects/coastal/slrhabitat/	
	Montesano, Paul, Scott Haag, and David Smith. <i>New Jersey Boaters Pumpout Guide</i> . Map. Scale varies. 2011	

Talks and Presentations	Why We Should All Think of our Maps as Art <i>North American Cartographic Information Society Annual Meeting</i>	October 2019
	Teaching Formal Frameworks for Structuring Planning and Design Objectives for the Regional Scale <i>Council of Educators in Landscape Architecture Annual Conference</i>	March 2019
	Thinking Beyond Choropleth: Five other Methods for Mapping Statistical Data <i>Rutgers University: GIS Day</i>	November 2017
	Mapping New Jersey's State Parks and Forests <i>Rutgers University – Department of Landscape Architecture: Common Lecture</i>	October 2014
	Transforming New Jersey's State Parks and Forestry Maps <i>Burlington County Community College: GIS Day</i>	November 2014
	Transforming New Jersey's State Parks and Forestry Maps <i>Rutgers University: GIS Day</i>	November 2014
	Background on Sea Level Rise and Habitat Vulnerability <i>JCNERR workshop on Sea Level Rise and Coastal Wildlife Habitat</i>	February 2013
Graduate Research	"Succession dynamics of Pine Barrens riverside savannas: a landscape-survey approach" Master's Thesis: An analytical survey of the declining distribution of a group of endangered wetland communities in the New Jersey Pine Barrens, and the underlying ecological processes driving those declines in the absence of direct anthropogenic disturbance within the past century.	2012
Awards and Competitions	NJDEP Mapping Contest <i>Winner: Best Instructional Presentation</i> "The Transformation of NJ State Parks & Forests Trail Maps"	2014
Outreach, consulting, and Volunteer Work	<i>Consultant: Center for Urban Environmental Sustainability (CUES)</i> Provide GIS support and training on a variety of projects.	2016 – Present
	<i>Co-Organizer: GIS Day at Rutgers University</i> Take part in the organization and presentation of Rutgers University's participation in GIS Day, an international celebration of GIS and a forum for GIS practitioners, educators, and students to present and discuss real-world applications of GIS technology.	2016
	<i>Co-Host/Co-Curator: "Environmental Resources and Issues: Investigations of Environmental Solutions for Jersey City" Exhibit</i> Co-hosted and co-curated exhibit of student work produced in 2014 Intermediate Landscape Architecture studio at Casa Colombo Gallery in Jersey City	2015

Outreach, consulting, and Volunteer Work (Cont'd.)	<i>GISCorps Volunteer: Niassa National Reserve, Mozambique</i>	2012
	Worked with management of this 42,000 km ² wildlife reserve in Mozambique to develop a series of versatile map templates which allow managers to easily create custom thematic maps of key management-related data as needed.	
	<i>COOL Classroom</i>	2010
	Developed interactive modules in Flash for a teacher-guided online educational unit on the role and process of spatial analysis in resource management decisions.	
Graphic Design Experience	Web Designer/Developer <i>Freelance</i>	2002-2003
	Junior Graphic Designer/Consultant – Usability Design Group <i>Broadreach Consulting - Wayne, PA</i>	2000-2001
	Web Designer/Production Artist <i>First USA Bank - Wilmington, DE</i>	1999 - 2000