

## CURRICULUM VITAE

### Shawn M. Landry, Ph.D.

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Director, USF Water Institute  
University of South Florida  
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#### EDUCATION

- 2013 Ph.D. in Geography and Environmental Science and Policy, College of Arts and Sciences, University of South Florida, Tampa, FL [Dissertation title Connecting Pixels to People: Management Agents and Social-ecological Determinants of Changes to Street Tree Distributions.]
- 2005 M.S. in Management Information Systems, College of Business Administration, University of South Florida, Tampa, FL [Areas of concentration Design and management of information systems and spatially enabled databases and data warehouses].
- 1996 M.S. in Botany, University of South Florida, Tampa, FL [Thesis Title The Importance of Seed Availability and Microsite Factors Relating to the Distribution of Vascular Epiphytes in West Central Florida.]
- 1992 B.S. in Plant Biology, University of New Hampshire, Durham, New Hampshire.

#### PROFESSIONAL EXPERIENCE

- 2014 – present Professor, School of Geosciences and Director, USF Water Institute, University of South Florida, Tampa, FL.
- 2003 - 2014 Program Director, Florida Center for Community Design and Research, University of South Florida, Tampa, FL.
- 2011 - 2014 Research Associate Professor, Florida Center for Community Design and Research, University of South Florida, Tampa, FL.
- 1998 - 2011 Associate in Research Faculty, Florida Center for Community Design and Research, University of South Florida, Tampa, FL.
- 2000 - present Professional Consultant: Information Technologies. Sole Proprietorship. Tampa, FL.
- 1996 – 1998 Computer Systems Administrator, School of Architecture and Community Design, University of South Florida, Tampa, FL.
- 1995 – 1997 Research Assistant, Florida Center for Community Design and Research, University of South Florida, Tampa, FL.
- 1995 – 1997 Research Assistant, Institute for System Botany, University of South Florida, Tampa, FL.
- 1994 – 1997 Consulting Botanist, Florida Natural Areas Inventory, Tallahassee, Florida.
- 1994 – 1995 Consulting Environmental Scientist, Environmental Lands Acquisition and Protection Program, Hillsborough County Parks and Recreation Department, Tampa, FL.
- 1991 – 1994 University Recycling Coordinator, University of New Hampshire, Durham, New Hampshire.

#### RESEARCH I

on my academic background in geography, plant ecology, spatial sciences and information technology, and I use the project management and grant writing skills I have gained over the past fifteen years as director of an applied research center and faculty researcher.

PEER-REVIEWED ARTICLES

- Panaou, A. and S. Landry (In Press). "Modeling the dispersion of GCM precipitation under various climate change scenarios for Hillsborough County, Florida." Submitted to *Regional Environmental Change*
- Pu, R., S. Landry and Q. Yu (2018). "Assessing the value of multi-seasonal high resolution Pléiades satellite imagery for mapping urban tree species." *International Journal of Applied Earth Observation and Geoinformation* 71: 144-158.

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audiences of all ages. I think my job as a teacher is to help students gain the skills neces

- Grants (\$117,098).
- 2015-2017 PI with Jan Allyn (Co-PI) FWC Species and Habitat Monitoring Programs Catalog (Habitat-CAT). Florida Fish and Wildlife Conservation Commission, State Wildlife Grants (\$47,405).
- 2015-2017 PI. Alabama Butterfly Atlas Website University of West Alabama (\$15,150).
- 2015-2017 PI with Ruiliang Pu. City of Tampa Tree Canopy and Urban Ecological Analysis 2016 of Tampa (\$225,000)
- 2014-2017 PI with Ruiliang Pu (Co-PI) Predicting i-Tree Ecosystem Services from Remote Sensing Metrics. US Department of Agriculture, Forest Service (\$55,736).
- 2015-2017 PI with David Eilers (Co-PI) Hillsborough County Lake Assessment Surveys Hillsborough County, FL (Multiple projects: \$115,356)
- 2011-2017 PI with Jason Scolaro (Co-PI) STORET Data Load Assistance for Local Governments in Florida. Multiple projects: City of Altamonte Springs (\$16,989); City of Kissimmee (\$2,346); Lake County (\$6,700).
- 2012-2017 PI. TampaTreeMap.org: City of Tampa Urban Forest Website City of Tampa (Multiple projects: \$40,400 total).
- 2015-2017 Co-PI with Seneshaw Tsegay Utilizing Green Infrastructure to Manage and Mitigate Stormwater to Improve Water Quality US Forest Service, 2014 National Urban and Community Forestry Challenge Cost-Share Grant Program (\$305,334).
- 2014-2017 PI on subcontract with Andrew Koeser (PI, Univ. Florida) Mobile Tree Failure Prediction for Storm Preparedness and Response

modeling of Nitrogen loading from transportation sources and attenuation by roadside vegetation buffers in an urbanized watershed





2011-2014	Implementation and Maintenance (multiple projects). Manatee County, FL (\$105,076) Co-PI with Terry Johnson (PI) Orange County Water Atlas Maintenance Orange County, FL (\$172,950).
2010-2011	Co-PI with Jim Griffin (PI) Orange County Water Atlas Maintenance Orange County, FL (\$57,650).
2006-2010	Co-PI with Ron Chandler (PI) Orange County Water Atlas Maintenance Orange County, FL (\$230,600).
2005-2006	PI with Ron Chandler (Co-PI) Orange County Water Atlas Implementation and Maintenance Orange County, FL (\$103,529).
2005-2007	Co-PI with Jim Griffin (PI) Pinellas County Water Atlas Pinellas County, FL (\$129,645).
2004-2005	PI. Pinellas County Water Atlas. Pinellas County, FL (\$5,000).
2013-2014	Co-PI with Terry Johnson (PI) and Jim Griffin (Co-PI) Polk County Water Atlas Maintenance Polk County, FL (\$25,000).
2009-2013	Co-PI with Terry Johnson (PI), Ron Chandler (Co-PI) and Jim Griffin (Co-PI) of Lakeland support for the Polk County Water Atlas (multiple projects). City of Lakeland, FL (\$20,000).
2009-2013	Co-PI with Terry Johnson (PI), Ron Chandler (Co-PI) and Jim Griffin (Co-PI) of Winter Haven support for the Polk County Water Atlas (multiple projects). City of Winter Haven, FL (\$20,000).
2004-2009	Co-PI with Ron Chandler (PI) Polk County Water Atlas Maintenance (multiple projects). Polk County, FL (\$239,000).
2001-2004	PI with Kyle Campbell (Co-PI) Polk County Water Atlas Implementation and Maintenance (multiple projects). Polk County, FL (\$205,000).
2011-2014	Co-PI with Terry Johnson (PI) Sarasota Water Atlas Maintenance (multiple projects). Sarasota County, FL (\$221,166)
2011-2012	Co-PI with Terry Johnson (PI) Water Atlas Services for Sarasota Water Atlas New College Coastal Watershed Grant (\$67,813).
2007-2011	Co-PI with Jim Griffin (PI) Sarasota Water Atlas Maintenance (multiple projects). Sarasota County, FL (\$300,141)
2003-2007	PI with Kyle Campbell (Co-PI) Sarasota Water Atlas Implementation and Maintenance (multiple projects). Sarasota County, FL (\$273,939)
2010-2014	Co-PI with Terry Johnson (PI) Seminole County Water Atlas (multiple projects). Seminole County, FL (\$238,600).
2004-2010	Co-PI with Ron Chandler (PI) Seminole County Water Atlas (multiple projects). Seminole County, FL (\$508,731).
1999-2004	Co-PI with Kyle Campbell (PI) Seminole County Water Atlas (multiple projects). Seminole County, FL (\$882,809).
2000-2004	PI with Kyle Campbell (Co-PI) Southwest Florida Water Atlas (multiple projects). Southwest Florida Water Management District (\$264,000).
2012-2014	PI with Jim Griffin (Co-PI) Regional Tampa Bay Water Atlas (multiple projects). Tampa Bay Estuary Program, Manatee County and Pinellas County (\$143,563)
2010-2012	Co-PI with Terry Johnson (PI) Regional Tampa Bay Water Atlas (multiple projects). Tampa Bay Estuary Program, Manatee County and Pinellas County (\$158,125)
2006-2010	Co-PI with Jim Griffin (PI) Regional Tampa Bay Water Atlas (multiple projects). Tampa Bay Estuary Program, Manatee County and Pinellas County (\$308,2587)
2004-2006	PI with Kyle Campbell (Co-PI), Christiana Schumann (Co-PI) and Ron Chandler (Co-PI). Tampa Bay Water Atlas Implementation and Maintenance (multiple projects). Tampa Bay Estuary Program (\$159,850)
2004-2004	PI with Kyle Campbell (Co-PI) and Christiana Schumann (Co-PI) Tampa Bay Water Atlas Implementation United States Geological Survey (\$34,648)
2008-2010	Co-PI with Ron Chandler (PI) Volusia County Water Atlas Maintenance (multiple projects). Volusia County, FL (\$75,800).
2007-2008	PI with Ron Chandler (Co-PI) Volusia County Water Atlas Implementation Volusia County, FL (\$64,041).

[PlantAtlas.org](http://PlantAtlas.org) (sorted by date)



- 2016-2018 PI, Educational Business Activity for Plant Atlas Website Maintenance for Florida Plant Atlas, Indiana Plant Atlas, New York Plant Atlas, Alabama Plant Atlas and the Jamaica Plant Atlas (\$9,810 annually).
- 2017-2020 PI on Sub-award, Digital PEN: Integrating the Herbaria of Peninsular Florida NSF, PI: Alan Franck (Sub-award \$8,970).
- 2017-2018 PI, Kentucky Plant Atlas Implementation. Eastern Kentucky University (\$2,475 plus a \$3,500 software license issued by USF to ECU).
- 2017-2018 PI, Tennessee Plant Atlas Implementation. University of Tennessee at Chattanooga (\$8,000 plus a \$5,000 software license issued by USF to UT).
- 2017 Inventor. Plant Atlas Software License for Kentucky Plant Atlas Eastern Kentucky University (\$3,500).
- 2017 Inventor. Plant Atlas Software License for Tennessee Plant Atlas University of Tennessee at Chattanooga (\$5,000).
- 2003-2016 PI, Plant Atlas Website Maintenance for Florida Plant Atlas, Indiana Plant Atlas, New York Plant Atlas, and Alabama Plant Atlas (\$62,263 total).
- 2013-2014 PI with Keith Bornhorst (Co-PI) and Jason Scolaro (Co-PI) Indiana Plant Atlas Website Implementation Butler University (\$7,000).
- 2008-2018 PI, Non-native Species in the Florida Atlas of Vascular Plants Florida Fish and Wildlife Conservation Commission (Sub-award on multiple grants to RP Wunderlin (PI); \$3,300 annually).
- 2013 Inventor. Plant Atlas Software License for Indiana Plant Atlas Butler University (\$5,000).
- 2011-2012 PI. Florida Invasive Plant (FLIP) Mobile Web Application Exotic Plant Pest Council. (\$1,000).
- 2009-2010 PI, Alabama Plant Atlas Website Implementation University of West Alabama. (\$8,900).
- 2008 Inventor. Plant Atlas Software License for the Alabama Plant Atlas University of West Alabama (\$5,000).
- 2008 PI, New York Flora Atlas Website Redesign The Nature Conservancy (\$10,500).
- 2007-2008 PI, Redesign and Upgrade the Atlas of Florida Vascular Plants Website Florida Department of Environmental Protection (Sub-award grant to RP Wunderlin (PI); \$12,103).
- 2004 Inventor. Plant Atlas Software License for the New York Plant Atlas New York Flora

- Yu, Qiuyan, Ruiliang Pu, SM Landry and Michael Acheampong (2017). "Understanding association between land surface temperature variation, tree biophysical and biochemical properties for urban heat island studies/assessment using LiDAR and Landsat TM." Association of American Geographers 2017 Annual Meeting. April 5-9, 2017 in Boston, MA.
- Scolaro, Jason, Shawn Landry and Jan Allyn (2017). "Online Water Quality Trend Analysis: Improving Accessibility of a Robust Statistical Analysis Technique." Charlotte Harbor National Estuary Program, Charlotte Harbor Watershed Summit March 28-30, 2017 in Punta Gorda, Florida.
- Landry, SM. (2016). "Urban Tree Cover Change: Was there a temporal change in canopy or are you comparing different methods?" University of South Florida, School of Geosciences Research Symposium: Geographies of Space. November 9, 2016 in Tampa, FL.
- Landry, SM., T.L. Singleton and T. Seneshaw (2016). "From Gray to Green: Tools for Transitioning to Vegetation-Based Stormwater Management." Florida Stormwater Association Annual Conference. June 15-17, 2016 in Ft. Myers, FL.
- Landry, SM. (2016). "Water-CAT, presented in Panel 115 Timely, Florida-specific Monitoring Products ....From a Council of your Peers." National Water Quality Monitoring Council National Monitoring Conference. May 2-6, 2016 in Tampa, FL.
- Landry, SM. (2016). "Extending the life of urban forest field sampling data: Predicting i-Tree model outputs using remote sensing with baseline field data." Association of American Geographers 2016 Annual Meeting. March 29-April 2, 2016

- Rains, MC, KC Rains, SM Landry, V Seidel and TL Crisman (2013). "Net wetland loss (1950s-2007) and current wetland condition (2007), Tampa bay watershed, Florida." Joint Conference of the Society of Wetland Scientists South Atlantic Chapter (SWS SAC), Florida Association of Environmental Soil Scientists (FAESS), and Southwest Chapter of the Florida Association of Environmental Professionals (SW FAEP). October 7-9, 2013 in Tampa, FL..
- Landry, SM. (2013). "Street trees in urban neighborhoods: Management responsibilities and temporal change." Association of American Geographers 2013 Annual Meeting. April 8-13, 2013 in Los Angeles, CA
- Lewis, DB, RK Zarger, FA Akiwumi, MC Rains, SM Landry, KA Nilsson, CO Adjei, SJ Feit, GM Larsen, RB Perkerson, PE Thurman, TL Crisman, SS Bell, and T. Co. (2012). "Urban development, power relations, and water redistribution as drivers of wetland change in the Tampa Bay region socioecosystem." Ecological Society of America Annual Meeting, Aug 7-12, 2011 in Austin, TX.
- Zarger, RK, FA Akiwumi, DB Lewis, SM Landry, GM Larsen and CO Adjei. (2012). "Politics, Power, and Perceptions of Hydroecological Change and Water Redistribution in Tam pa Bay." The Society for Applied Anthropology 72nd Annual Meeting, March 27-31, 2012 in Baltimore, MD.
- Andreu, MG, RJ Northrop, SM Landry, MJ Russell, W Zipperer, MH Friedman, C Cheatham-Rhodes and A Abd-Elrahman. (2012). "An analysis of forest ecosystem services in the Tam pa Bay Watershed." 76th Annual Meeting of the Florida Academy of Sciences. March 16-17, 2012 in Tam pa, FL.
- Landry, SM. (2012). "Street Tree Management in Urban Neighborhoods: Resident Attitudes and Drivers of Uneven Tree Distributions." Association of American Geographers 2012 Annual Meeting. February 23-28, 2012 in New York, NY.
- Pham, Thi-Thanh-Hiên, P Apparicio, AM Séguin, S.M. Landry and M Gagnon. (2012). "Disentangling street characteristics and the socioeconomic context underlying tree cover in Montreal using multilevel models."



Campbell, KN, SM Landry, E Budde and JC Griffin. (1999). "Oral History: An Important Tool for Understanding Florida's Lakes." Proceedings of the 1999 Annual Florida Lake Management Society Conference, Safety Harbor, Florida. Florida Lake Management Society.

#### ONLINE PUBLICATIONS

- Landry, SM., J. Allyn, K. Bornhorst, R. Hammond, J. Scolaro (2017-2020). "Terra-CAT: the FWC Species and Habitat Monitoring Programs Catalog. USF Water Institute, University of South Florida [Developed with Florida Fish and Wildlife Conservation Commission]. Web [www.terra-cat.org].
- Landry, SM., K. Bornhorst (2017-2018). "The Alabama Butterfly Atlas." USF Water Institute, University of South Florida. Web [http://alabamabutterflyatlas.usf.edu/].
- Landry, SM., K. Bornhorst, J. Scolaro (2000-2018). "The University of South Florida PlantAtlas.org family of websites." USF Water Institute, University of South Florida. Web [www.plantatlas.org].
- Landry, SM., J. Allyn, K. Bornhorst, D. Eilers, R. Hammond, J. Scolaro (1998-2018). "The Water Atlas Program family of websites." USF Water Institute, University of South Florida. Web [www.wateratlas.org]. Awarded the Florida Lake Management Society Marjorie Stoneman Douglas Award in 2017.
- Landry, SM., R. Northrop, C. Wells, B. Donerly and K. Bornhorst (2014-2018). "The TampaTreeMap.org: a web-based map database of trees within the City of Tampa and USF campus." A version of Open Tree Map source code (opentreemap.github.io). USF Water Institute, University of South Florida. Web [www.tampatreemap.org].
- Landry, SM., J. Griffin, K. Muldoon, J. Allyn, K. Bornhorst, D. Eilers, R. Hammond, J. Scolaro (2014-2020). "Water-CAT: The Florida Water Resource Monitoring Catalog. USF Water Institute, University of South Florida [Developed with Florida Water Resource Monitoring Council]. Web [www.water-cat.org].

#### INVITED TALKS

- 4/8/2017 Panel Participant: "Trees in the City 4: Monitoring Approaches to Understand the Socio-ecological Dynamics of the Urban Forest." Association of American Geographers 2017 Annual Meeting. April 5-9, 2017 in Boston, MA.
- 6/7/2017 Invited talk: "Mobile and Web-based Tree Inventory Technology." Trees Florida 2017 International Society of Arboriculture Conference and Trade Show. June 5-7, 2017 in Palm Coast, Florida.
- 5/25/2016 "Urban Tree Canopy" all-day training for the Florida Urban Forestry Council, Urban Forestry Institute, May 25, 2016 in Tampa, FL.
- 1/29/2016 "USF Water Institute: An Introduction." ES College of Arts and Sciences, Dean's Advisory Council Meeting. University of South Florida, Tampa, FL.
- 1/22/2015 "TampaTreeMap.org: a tree inventory system built for citizen-science" Integrating informational text and environmental education workshop for teachers of grades 4 – 8, presented by the Tampa Bay Times Newspaper in Education program. January 22, 2015 in Tampa, FL.
- 10/17/2014 "Where the Live Oak meets the McMansion: Urban forest research, regulation and management in Tampa." Weekly Seminar Series, Univ. Maryland Baltimore County, Center for Urban Environmental Research and Education. October 17, 2014 in Baltimore, MD.
- 9/16/2014 "Introduction to TampaTreeMap.org." City of Tampa, Urban Forest Management Internal Technical Advisory Committee in Tampa, FL
- 1/28/2014 "Tampa Open Tree Map Program: Citizen Involvement in Urban Tree Inventory." Invited speaker to 2014 Southern Group of State Foresters Urban Forestry Committee Winter Meeting, January 27-29, 2014 in Tampa, Florida.
- 10/7/2013 Guest lecturer for "Landscape and Ecology as Urbanism" taught by Shannon Bassett at University of South Florida.
- 5/15/2013 "Connecting Pixels to People: Patterns of (in)equity and the public-private management of urban street trees." Invited lecture and research visit,

- 4/4/2012 Invited participant at the Florida League of Cities, "Research Roundtable" in Tampa, FL.
- 10/21/2011 Guest lecturer for "Landscape and Ecology as Urbanism" taught by Shannon Bassett at University of South Florida.
- 10/5/2011 "Social Surveys – What they Tell Us." Urban Forest Management Plan Public Meeting. October 5, 2011 in Tampa, FL.
- 3/7/2011 "The Ecological Benefits of Natural Systems." Citizen Environmental Advisory Committee of Hillsborough County. March 7, 2011 in Tampa, FL.
- 10/19/2010 Guest speaker for "Urban Green Spaces" course taught by Geoffrey Buckley at Ohio University, Athens, OH..
- 4/7/2010 Guest lecturer for "Urbanizing Forest Management" course taught by Michael Andreu and Rob Northrop at University of Florida, Plant City, FL campus.
- 7/28/2009 Discussion with City of Tampa Mayor Pam Iorio. Mayor's Environmental Roundtable, Tampa, FL.
- 10/10/2008 "Ecosystem services and the spatial distribution of Tampa's Urban Forest." Department of Geography Colloquium Series, Fall 2008. October 10, 2008 at University of South Florida, Tampa, FL.
- 6/25/2008 "Trees and the Urban Forest." Hillsborough County Livable Roadways Committee. June 25, 2008 at Hillsborough Area Regional Transit, Tampa, FL.
- 8/19/2008 "Results from the City of Tampa Urban Ecological Analysis 2007." City of Tampa Mayor's Symposium on Community Trees and the Urban Forest. Tampa Convention Center, Tampa, FL.
- 4/24/2008 "Tampa Urban Ecological Analysis." Presentation to Tampa City Council. April 24, 2008 at







2016                      Reviewer, Professional Geographers

**SERVICE**

Hillsborough County Integrated Conservation Plan Development Committee 1998 - 2000

Local Inter-organizational Networked Knowledge Systems (LINKS) Advisory Committee 1998-2000

Hillsborough Tomorrow Research Committee 1997

International Society of Arboriculture. 2017-

Florida Water Resources Monitoring Council Metadata Expert Panel. Coordinated by Florida Department of Environmental Protection. Panel Member, 2007-2008

ADDITIONAL EDUCATION AND CERTIFICATIONS

Intermediate Microsoft Access, University of South Florida; Microsoft Certified Systems Engineer +Internet (Computer Based Training), Forefront Direct; STORET X Training Workshop, Environmental Protection Agency; Introduction to Visual Basic, St. Pete Junior College; Inte