

Dr. Jeffrey William Hollister
Curriculum Vitae

U.S. Environmental Protection Agency
Atlantic Ecology Division
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Education:

Doctor of Philosophy in Environmental Science, December 2004

Department of Natural Resources Science, University of Rhode Island, Kingston, RI

Areas of emphasis: Landscape Ecology, Geospatial Sciences, and Environmental Monitoring

Coursework in: Coastal Ecology, Geographic Information Systems, Landscape Ecology, and Statistics

Dissertation Topic: Predicting Condition of Small Estuarine Systems along the United States' Atlantic Coast. (Advisor: Peter V. August, Ph. D.)

Master of Environmental Management, May 1997

Nicholas School of the Environment, Duke University, Durham, NC

Areas of emphasis: Resource Ecology, Landscape Ecology, and Geospatial Sciences

Coursework in: Ecology, Geographic Information Systems, Remote Sensing, Landscape Ecology, Spatial Statistics and Analysis, Conservation Biology, Statistics, and Forest Ecology

Master's project: An Analysis of Red Spruce Establishment Success in Highland County, Virginia. (Advisor: Patrick N. Halpin, Ph. D.)

Bachelor of Science, Magna Cum Laude, May 1995

Baker University, Baldwin City, KS

Major: Biology with emphasis in ecology. (Advisor: Roger L. Boyd, Ph.D.)

Recent Coursework:

Data Mining and Analysis (STATS 202), Fall 2012

Stanford University, Stanford Center for Professional Development

Introduction to Computer Science using Java I (CSCI E-50a), Fall 2012

Harvard University, Division of Continuing Education

Introduction to Computer Science using Java II (CSCI E-50b), Spring 2013

Harvard University, Division of Continuing Education

Appointments:

Aug 2008 - Present *Research Ecologist*, US Environmental Protection Agency, Atlantic Ecology Division, Narragansett, RI

Jan 2007 – Present *Adjunct Assistant Professor*, Department of Natural Resources Science, University of Rhode Island, Kingston, RI

Dec 2005 – Present *Senior Fellow*, Coastal Institute, University of Rhode Island, Narragansett, RI

May 2006 – July 2008 *Postdoctoral Landscape Ecologist*, US Environmental Protection Agency, Atlantic Ecology Division, Narragansett, RI

Aug 2005 – May 2006 *Postdoctoral Teaching Fellow*, Department of Science, Marine Science Section, U.S. Coast Guard Academy, New London, CT

- Jan 2005 – July 2005 *Postdoctoral Associate*, American Institute of Biological Sciences, National Ecological Observatory Network (NEON) Project Office, Washington, DC
- Jan 2004 – Dec 2004 *Departmental Webmaster*, Department of Natural Resources Science, University of Rhode Island, Kingston, RI
- Sep 2002 – Dec 2004 *Graduate Teaching Assistant*, Department of Natural Resources Science, University of Rhode Island, Kingston, RI
- May 2003 – Aug 2004 *Geographic Information Systems/Biological Database Consultant*, Rhode Island Natural History Survey (RINHS), Kingston, RI
- Jan 2001 – June 2001 *Geographic Information Systems Consultant*, Save the Bay, Inc. Kingston, RI
- Sep 2000 – Sep 2002 *Graduate Research Assistant*, Department of Natural Resources Science, University of Rhode Island, Kingston, RI
- Sep 2000 – Sep 2002 *Predoctoral Fellow*, USEPA Atlantic Ecology Division/University of Rhode Island Northeast Environmental Research Training Program, Narragansett, RI/Kingston, RI
- June 1998 – July 2000 *Lead Research Technician in Landscape Ecology*, Landscape Ecology Lab, Joseph W. Jones Ecological Research Center, Newton, GA
- Aug 1997 – Jan 1998 *Geographic Information Systems Specialist*, Research Triangle Institute, Research Triangle Park, NC

Research:

Statement of Research Interests: It is my general research philosophy to conduct nationally relevant research and apply the results of that research to locally important issues. Both levels of research serve to inform environmental policy and improve the environment, which is the ultimate goal of applied environmental research. Towards that end, I hope to contribute to research in landscape ecology, geospatial technologies (e.g. geographic information systems, spatial statistics, and remote sensing), ecoinformatics/reproducible research/data science, and broad scale environmental monitoring and modeling. Specifically, I wish to continue my past work and use broad scale monitoring data (e.g. Environmental Monitoring and Assessment Program data (EMAP), National Land Cover Dataset (NLCD)) to explore the links between landscape structure (e.g. landscape composition and configuration) and the ecological health and integrity of receiving waters. Furthermore, I am keenly interested in applying cutting edge informatics and data science tools (e.g. semantic web, analytics, “Big Data”, eScience, etc.) to environmental research conducted by the US EPA.

Research and Professional Experience:

Aug 2008 - Present *Research Ecologist*, U.S. Environmental Protection Agency, Atlantic Ecology Division, Narragansett, RI

I serve as principle investigator and provide leadership to the division on landscape ecological research, on application of geospatial sciences to the understanding of water quality in fresh and estuarine waters, and on the use of informatics and information management tools in environmental research. In this role, I have developed tools and methodologies (GIS and statistical) using numerous software packages and languages (R, ArcGIS, GRASS, Python, MS Excel) and have continued prior research on technology transfer of data, analytical methods and predictive tools to Northeast States; and developed statistical and modeling tools to facilitate use of defensible techniques in water quality criteria development. Previously I have: served as Co-lead on a project studying ecosystem services related to nutrient cycling in Northeastern lakes and ponds, was the liaison between the National Ecological Observatory Network (NEON) and EPA’s Ecosystem Services Research Program (ESRP), was task lead for our lakes ecosystem

services work, and served as co-task lead for developing decision support tools for a project in Narragansett Bay and its watershed. I am currently serving as a co-Task Lead on a project exploring cyanobacterial risk in lakes of the Northeastern US. I am also exploring the use of data science, Big Data, informatics, and related technologies in our various research programs. These data efforts include course work, a linked open data project, and involvement with various outside organizations such as the ESIP Federation and Data.gov

May 2006 – July 2008 *Postdoctoral Landscape Ecologist*, U.S. Environmental Protection Agency, Atlantic Ecology Division, Narragansett, RI

Contributed to research and technology transfer of National Coastal Assessment data, analytical methods and predictive tools to Northeast States. Developed statistical and modeling tools (e.g. Conditional Probability Analysis with R and Excel) to facilitate use of defensible techniques in water quality criteria development. Provided Landscape Ecology, Spatial Statistics and GIS support to a variety of ongoing projects at the Atlantic Ecology Division and within US EPA's Office of Research and Development. Explored linkages between landscape and downstream receiving waters and examined utility of broad scale monitoring data in identifying and assessing ecological impairment.

Aug 2005 – May 2006 *Postdoctoral Fellow*, U.S. Coast Guard Academy, Dep. of Science, Marine Sciences Section, New London, CT

Continued prior research on multi-scale interactions between landscape structure (via NLCD) and sediment metal concentrations (via EMAP) and predictive modeling of estuarine impairment. Worked with students, faculty and colleagues in the Marine Sciences Section, the International Ice Patrol, and Information Services Division on a wide variety of Geographic Information Systems projects.

Jan 2005 – July 2005 *Postdoctoral Associate*, American Institute of Biological Sciences, National Ecological Observatory (NEON) Project Office, Washington, DC

Researched and assisted in planning of ecological observatories designed to address the National Research Council's Environmental Grand Challenges. Made specific contributions in the design of the land use change component of NEON and design of a Multi-Scaled Remote Sensing System designed to support and develop NEON analytical tools and ecological forecasting models. Other duties included managing Geographic Information Systems operations in the Project Office, maintaining the NEON web presence (<http://www.neoninc.org>), interacting with research scientists and educators on the NEON Senior Management Team and National Network Design Committee, and assisting with the day-to-day operations of the NEON Project Office.

Sep 2000 – Dec 2004 *U.S. EPA/URI Pre-doctoral Fellow/Doctoral Research/Graduate Research Assistant*, USEPA Atlantic Ecology Division/University of Rhode Island Northeast Environmental Research Training Program, Narragansett, RI/Kingston, RI

Used monitoring data from the Environmental Monitoring and Assessment Program (EMAP) and the National Land Cover Dataset (NLCD) to explore relationships between landscape structure and indicators of estuarine condition. I specifically researched the accuracy of the NLCD at multiple spatial scales, the role of spatial scale on the relationship between landscape organization (e.g. landscape composition) and ecological health and integrity of Atlantic coast estuaries, and built predictive models of estuarine condition designed to locate estuaries with impacted ecological integrity. As member of Landscape Ecology Working Group, discussed and assisted on projects at USEPA Atlantic Ecology Division and URI utilizing landscape ecology, spatial analysis and broad scale environmental monitoring data, in particular NLCD and EMAP.

May 2003 – Aug 2004 *Geographic Information Systems/Biological Database Specialist*, Rhode Island Natural History Survey, Kingston, RI

Contributed towards the design and implementation of the Rhode Island Natural History Survey (RINHS) Biodiversity Databases, specifically the Odonata of Rhode Island and the Biota of Rhode Island. Designed field sampling methodology to accurately map invasive species with geostatistical techniques.

Jan 2001 – June 2001 *Geographic Information System/Eelgrass Restoration Modeling Consultant*, Save the Bay, Inc., Kingston, RI

Compiled bathymetry, current and historic eelgrass locations, historic, and water quality data sets for use in eelgrass restoration efforts. Using the Short et al. (2002) methodology, built geographic information system models of eelgrass restoration potential and generated maps of areas in Narragansett Bay with higher potential of eelgrass restoration success.

June 1998 – July 2000 *Lead Research Technician in Landscape Ecology*, J.W. Jones Ecological Research Center, Landscape Ecology Lab, Newton, GA

Conducted research on ecological impacts of small wetland loss in the Southeastern United States, use of home range in the design of gopher tortoise (*Gopherus polyphemus*) reserves, and habitat use and landscape ecology of Northern Bobwhite Quail. Other research duties included remote sensing data analysis (e.g. Landsat Thematic Mapper, SPOT-XS, B&W and CIR Aerial Photography), analysis of vector and raster GIS data, and field data collection (e.g. GPS, vegetation data). Supervised and assisted other technicians, graduate students and summer field workers and managed day-to-day operations of the Landscape Ecology Lab.

Aug 1997 – Jan 1998 *Geographic Information Systems Specialist*, Research Triangle Institute, Research Triangle Park, NC

Developed a GIS methodology and series of Arc Macro Language scripts to facilitate the identification of river reaches, as required by the Clean Water Act, in the states of North Dakota and Arkansas.

May 1996 – July 1997 *Resource Ecology Master's Research*, Duke University, Landscape Ecology Lab, Durham, NC

Researched environmental, ecological, and spatial controls on the establishment success of Red Spruce (*Picea rubens*) in northwestern Virginia. Research techniques included a variety of geographic information systems analytical tools (e.g. Topographic Convergence Index) and spatial statistics techniques (e.g. partial mantel's tests).

Teaching:

Jan 2007 – Present *Adjunct Assistant Professor*, University of Rhode Island, Department of Natural Resources Science, Kingston, RI

Team taught in alternating Spring Semesters, with Dr. Peter V. August, Ecology of Fragmented Landscapes (NRS 534) a graduate level seminar course in Landscape Ecology. Course included readings and group discussion of the concepts and principles of landscape ecology.

Aug 2005 – May 2006 *Postdoctoral Teaching Fellow*, U.S. Coast Guard Academy, Department of Science, Marine Sciences Section, New London, CT

Responsible for teaching 3 laboratory sections of Introduction to Geospatial Sciences (major topics include: introduction to ESRI products, geospatial data management, spatial analysis, cartography, coordinate systems and projections, geodatabases, development of geodatabase for emergency management and hazardous materials response) and teaching 3 sections of a core course in Oceanography (major topics include: marine and coastal ecology, fisheries, meteorology, physical oceanography, coastal oceanography, estuarine classification, and oil spill impact/response).

Sep 2002 – Dec 2004 *Graduate Teaching Assistant*, University of Rhode Island, Department of Natural Resource Science, Kingston, RI

Coordinated Conservation of Populations and Ecosystems course (major topics include: conservation biology, ecological and socioeconomic importance of biodiversity, introductory population, community, and ecosystems ecology, genetics, metapopulations, landscape ecology, and data analysis for conservation biology). Taught laboratory sections for Fundamentals of Geographic Information Systems (major topics include: operating systems essentials for GIS, ArcInfo Workstation, Editing and creating spatial data, cartography, and introductory spatial analysis).

May 2003 – Aug 2004 *Geographic Information Systems/Database Consultant*, Rhode Island Natural History Survey, Kingston, RI

Provided training to Rhode Island Natural History Survey and Ecological Inventory and Monitoring Stewardship Program Staff on ArcView and ArcMap GIS and Trimble GPS. Training focused on use of these products for ecological and natural history applications.

June 2001 *Geographic Information Systems Consultant*, National Park Service, Gateway National Recreation Area, Staten Island, NY

Trained Gateway National Recreation Area staff in use of ArcView, Spatial Analyst, and Trimble GPS products.

Publications (21 total):

Peer Reviewed Articles

- Milstead, W. B., J.W. Hollister, R. B. Moore, H. A. Walker (Submitted). Estimating Summer Nutrient Concentrations in Northeastern Lakes from SPARROW Load Predictions and Modeled Hydraulic Residence Time. *Submitted to PLoS ONE*.
- Hollister, J. W., W.B. Milstead, M.A. Urrutia (2011). Predicting Maximum Lake Depth from Surrounding Topography. *PLoS ONE* 6(9): e25764. doi:10.1371/journal.pone.0025764. Contribution no. AED-11-013
- Hollister, J. W., W.B. Milstead (2010). Using GIS to Estimate Lake Volume from Limited Data. *Lake and Reservoir Management*. 26(3)194-199. Contribution no. AED-10-018.
- Morzillo, A. T., A. G. Mertig, J. W. Hollister, N. Garner, J. Liu (2010). Socioeconomic Factors Affecting Local Support for Black Bear Recovery Strategies. *Environmental Management*. 45:1299-1311. Contribution no. WED-09-060
- Benyi, S. J., J. W. Hollister, J. A. Kiddon, H. A. Walker. (2009). A Process for Comparing and Interpreting Differences in Two Benthic Indices in New York Harbor. *Marine Pollution Bulletin*. 59:65-71 Contribution no. AED-08-023.
- Hale, S. S. and J. W. Hollister. (2009) Beyond Data Management: How Ecoinformatics Can Benefit Environmental Management Programs. *Environmental Monitoring and Assessment*. 150:227-235. Contribution No. AED-07-077.

- Hollister, J. W., J. F. Paul, and H. A. Walker (2008). CProb: A Computational Tool for Conducting Conditional Probability Analysis. *Journal of Environmental Quality*. 37(6):2392-2396. Contribution No. AED-07-095.
- Hollister, J. W., P. V. August, J. F. Paul, and H. A. Walker. (2008). Predicting Estuarine Sediment Metal Concentrations and Inferred Ecological Conditions: An Information Theoretic Approach. *Journal of Environmental Quality*. 37(1):234-244. Contribution No. AED-07-013.
- Hollister, J. W., P. V. August, and J. F. Paul. (2008). Effects of Spatial Extent on Landscape Structure and Sediment Metal Concentration Relationships in Small Estuarine Systems of the United States' Mid-Atlantic Coast. *Landscape Ecology*. 23(SI):91-106. Contribution No. AED-06-074.
- Hollister, J. W., M. L. Gonzalez, J. F. Paul, P. V. August, J. L. Copeland (2004). Assessing the Accuracy of the National Land Cover Dataset at Multiple Spatial Extents. *Photogrammetric Engineering and Remote Sensing*. 70(4):405-414. Contribution No. AED-02-012.
- Paul, J. F., J. L. Copeland, M. Charpentier, P. V. August, and J. W. Hollister (2003). Overview of Geographic Information Systems applications in Estuarine Monitoring and Assessment Research. *Marine Geodesy*. 26:63-72. Contribution No. AED-02-061
- Eubanks, J. O., J. W. Hollister C. Guyer, and W.K. Michener. (2002). Reserve Area Requirements for Gopher Tortoises (*Gopherus polyphemus*). *Chelonian Conservation and Biology*. 4(2).

Chapters

- Michener, W. K., J. B. Atkinson, D. G. Edwards, J. W. Hollister, P. F. Houhoulis, P. M. Johnson, and R. N. Smith. (2000). Habitat Characteristics of Northern Bobwhite Quail-Hunting Party Encounters: A Landscape Perspective. Pages 173-182 in L.A. Brennan, W.E. Palmer, L.W. Burger, Jr., and T.L. Pruden (eds.). *Quail IV: Proceedings of the Fourth National Quail Symposium*, Tall Timbers Research Station, Tallahassee, FL.

Non Peer Reviewed Submissions (i.e., Letters, Magazine Articles, etc.)

- Hollister, J.W. (2010). Ecology on the Web – 3 Years Old. Submitted to Ecology on the Web, *Bulletin of the Ecological Society of America*. 91(2).
- Morzillo, A. T., J. W. Hollister, C. A. Drew, M. E. Rocca, M. E. Baker, J. M. Bossenbroek, C. A. Mazzarella. (2008). A Young Scientist's Guide to Gainful Employment: Recent Graduates' Experiences and Successful Strategies. *Bulletin of the Ecological Society of America*. 89(2)193-203. WED Contribution No. WED-07-178. Contribution No. AED-08-047.
- Hollister, J. W. (2007). Moving Forward with Ecological Informatics and Reproducibility. *ESA News and Views Blog*. <http://www.esa.org/esablog/?p=62>. Contribution No. AED-07-097.
- Hollister, J. W. (2007). Natural Resource Management Partnership Annotated Website Link. Submitted to Ecology on the Web, *Bulletin of the Ecological Society of America*. 88(2).
- Hollister, J. W. and H. A. Walker (2007). Beyond Data: Reproducible Research in Ecology and Environmental Science. *Frontiers in Ecology and the Environment*. 5(1):11-12. Contribution No. AED-07-003.
- Hollister, J. W. and L. M. Ernst (2001) Eelgrass Habitats get a Boost from Geographic Information Systems. *Maritimes*. 43(1):16-18.

Thesis/Dissertations

- Hollister, J. W. (2004). Predicting Condition of Small Estuarine Systems Along the United States' Atlantic Coast. *Ph.D. Dissertation, University of Rhode Island*. 143 pp.
- Hollister, J. W. (1997). An Analysis of Red Spruce Establishment Success in Highland County, Virginia. *Masters of Environmental Management Project, Duke University*.

Presentations (40 total):

Special Sessions and Workshops

- "Who am I and Why am I here: Lakes, Linked Data, and R" (Invited presentation to Data.gov Semantic Web and Linked Data working group). Aug 2012
- "Job Hunting Experiences of Recent Graduates in Landscape Ecology" (Co-organized with Anita Morzillo). US Chapter of the International Association for Landscape Ecology Annual Meeting, Tucson, AZ. April 2007.
- "Conditional Probability Analysis: Demonstration using R and R-Excel" (Co-presented with John F. Paul).

Workshop for Developing Suspended and Bedded Sediment Water Quality Criteria, Arlington, VA. November 2006.

- "Marine and Coastal Applications of Landscape Ecology" (Co-organized with Matt Nicholson, Elizabeth Hinchey and Brad Robbins). US Chapter of the International Association for Landscape Ecology Annual Meeting, Las Vegas, Nevada. April 2004.
- "Spatial Analysis Workshop" (Invited workshop on Spatial Statistics and Spatial Analysis for St. Lawrence University Faculty and Staff). St. Lawrence University, Canton, NY. December 2002.

Seminars, Presentations, and Accepted Abstracts

- Hollister, J.W., W. B. Milstead, K. C. Hychka, H.A. Walker, J. L. Copeland. Nutrients, Ecosystem Services, and Human Health in Northeastern Lakes and Ponds. Invited Seminar at Western Connecticut State University, Dept of Biology Seminar Series. 30 November, 2011.
- Hollister, J. W. and W. B. Milstead. Using GIS to Estimate Lake Volume from Limited Data. Annual Meeting of the North American Lake Management Society, Hartford, CT. October 2009. Contribution No. AED-09-068.
- Hollister, J. W. and W. B. Milstead. A Simple GIS Approach for Estimating Lake Volume from Limited Data. Northeast Arc Users Group Annual Meeting, Nashua, NH. October 2009. Contribution No. AED-09-067.
- Hollister, J.W. "Using CProb in R and Excel to conduct conditional probability analysis" Annual Meeting of the North East Association of Environmental Biologists, Westport, CT. March 2009.
- Walker, H. A., J. W. Hollister, B. Wilson, R. Scarborough, D. Carter, D Kreeger, K. Laudenabuch-Nelson, A. Howell, C. Strobel. More precise assessment of benthic conditions in Delaware Bay using probability survey data, targeted sampling and acoustic habitat maps. Sixth National Monitoring Conference, "Monitoring: Key to understanding our waters". Atlantic City, New Jersey. May 2008. Contribution No. AED-08-xxx
- Hollister, J. W. The new space race: Getting landscape data more fully integrated into causal analysis. Super Causal Analysis Team Workgroup (SuperCAT) Meeting. February 2008.
- Hollister, J. W. Estuarine monitoring and assessment: The integral role of GIS. Rhode Island Geographic Information Systems Conference, Narragansett RI, June 2007. Contribution No. AED-07-074
- Walker, H. A., J. W. Hollister, B. Wilson, R. Scarborough, D. Carter, D Kreeger, K. Laudenabuch-Nelson, A. Howell, C. Strobel. More precise assessment of benthic conditions in Delaware Bay. Environmental Monitoring and Assessment Program Annual Symposium, Washington DC, April 2007. Contribution No. AED-07-027.
- Hollister, J. W. Ecoinformatics: What is it and why should you care? Seminar at US EPA Atlantic Ecology Division, February 2007.
- Hollister, J. W. Predicting Condition of Small Estuarine Systems along the United States Atlantic Coast. Seminar at US EPA Atlantic Ecology Division, June 2006.
- Hollister, J. W., P.V. August, J.F. Paul. Predicting Estuarine Sediment Metal Concentration along the United States' Atlantic Coast. North Atlantic Chapter of the Society of Environmental Toxicology and Chemistry 12th Annual Meeting, Portland, ME. June 2006.
- Hollister, J. W., P. V. August, J. F. Paul. Predictive modeling of estuarine condition along the United States' Atlantic Coast. US Chapter of the International Association for Landscape Ecology Annual Meeting, San Diego, CA. April 2006.
- Hollister, J. W., J. Copeland, P. V. August, J. F. Paul. Coastal landscape structure and estuarine condition relationships: How does scale alter model reliability? US Chapter of the International Association for Landscape Ecology Annual Meeting, Las Vegas, Nevada. April 2004.
- Hollister, J. W. Assessing and Monitoring out Nation's Estuaries: The Past, Present and Future of Geographic Information Systems Applications? Invited Speaker for Geographic Information Systems and Environmental Monitoring special session at the North Atlantic Chapter of the Society of Environmental Toxicology and Chemistry 9th Annual Meeting, Mystic, CT. April 2003
- Hollister, J. W., J. Copeland, P. V. August, J. F. Paul. Assessing the Predictive Capability of Hydrologically Defined Sampling Units for Landscape Analysis. Invited speaker at St. Lawrence University, Canton, NY. December 2002
- Hollister, J. W., J. Copeland, P. V. August, J. F. Paul. Utilizing Hydrologically Defined Sampling Units for Landscape Analysis. Northeast Arc Users Group Annual Meeting, Mt. Washington Hotel, Bretton Woods, NH. November 2002.

Contributed Posters

- Copeland, J. L., J. W. Hollister. Geospatial Tools for Ecosystem Services. ESRI International Users Conference, San Diego, CA. June 2010. Contribution No. AED-10-076.
- Hollister, J. W., W. B. Milstead. Linking landscapes to ecosystem services: Landscape structure as an indicator and predictor of water clarity in New England lakes. US Chapter of the International Association for Landscape Ecology Annual Meeting, Athens, GA. April 2010. Contribution No. AED-10-021
- Milstead, W. B., J. W. Hollister, H. A. Walker, J. A. Kiddon, J. L. Copeland, H. W. Buffum, M. A. Charpentier, D. J. Keith. A Northeastern US Lakes Database to Support Ecosystem Services Research. Annual Meeting of the North East Association of Environmental Biologists, Newport, RI, March 2010. Contribution No. AED-10-031
- Hollister, J. W., A. Kuhn-Hines, J. L. Copeland. Mapping human population density in and around New Hampshire's common loon lakes: A comparison of dasymetric methods. US Chapter of the International Association for Landscape Ecology Annual Meeting, Snowbird, UT April 2009. Contribution No. AED-09-018
- Hollister, J. W., J. L. Copeland. Where New England Lives: A dasymetric population map for New England. Northeast Arc Users Group Annual Meeting, Hyannis, MA September 2008. Contribution No. AED-08-057
- Hollister, J. W., H. W. Walker. Landscape Thresholds and the Condition of Northeastern Estuaries. New England Estuarine Research Society Spring Meeting. Portsmouth, NH. May 2008. Contribution No. AED-08-035.
- Keith, D. J., J. W. Hollister, A. Kuhn-Hines. The Distribution of Colored Dissolved Organic Matter and Salinity along the Southern New England Coast from Aircraft Remote Sensing. American Society of Limnology and Oceanography annual meeting, Orlando, FL. March 2008. Contribution No. AED-07-111
- Hollister, J.W., A. T. Morzillo, E. J. Weissberger, J. A. Nestlerode, and J. F. Paul. Comparing Apples to Apples: Generating a Nationally Consistent Index of Benthic Biology in Estuarine Waters. Estuarine Research Foundation Annual Meeting, Providence, RI November 2007. Contribution No. AED-07-081.
- Benyi, S.J., Kiddon, J. A., Hollister, J.W., Walker, H. A. Interpreting Differences in Several Benthic Indices. Estuarine Research Foundation Annual Meeting, Providence, RI November 2007.
- Hollister, J.W. and J.L. Copeland. Relating distance weighted measures of landscapes to water quality: Does distance matter? US Chapter of the International Association for Landscape Ecology Annual Meeting, Tucson, AZ. April 2007. Contribution No. AED-07-004.
- Weissberger, E. J., J. A. Nestlerode, A. T. Morzillo, J. W. Hollister, J. F. Paul. Developing a nationally consistent approach for assessing regional associations between nutrients and benthic biological condition in estuarine waters. Environmental Monitoring and Assessment Program Annual Symposium, Washington DC, April 2007. Contribution No. GED-07-2880.
- Hollister, J. W., J. F. Paul, J. L. Copeland, M. L. Gonzalez, P.V. August. Accuracy of the 1992 National Land Cover Dataset area estimates: An analysis at multiple spatial extents. North American Land Cover Summit, Washington, DC. September 2006. Contribution No. OD-06-017.
- Hayden, B, Brewer C., Estrin D., Goldman J., Michener W., Baru C., Cid C., Collinge S., Foster D., Franklin J., Goldberg, D., Huenneke, L., Krishtalka, L., Levitt, J., MacMahon, J., Nadelhoffer, K., Palmer, M., Reichman, O. J., Swain, H., Welge, M., Hollister, J. W. Designing the National Ecological Observatory Network (NEON). North American Carbon Program Data Management Workshop, New Orleans, LA. January 2005.
- Hollister, J. W., J. Copeland, P. V. August, J. F. Paul. Assessing the Predictive Capability of Landscape Sampling Units of Varying Scale in the Analysis of Estuarine Condition. US Chapter of the International Association for Landscape Ecology Annual Meeting, Banff, Alberta. April 2003.
- Hollister, J. W., J. F. Paul, J. Copeland, R. L. Comeleo, M. Charpentier, P. V. August, M. Brush. Relating Estuarine Condition with Landscape Structure in the Mid-Atlantic Region of the United States. Ecological Society of America Annual Meeting, Madison, WI. August 2001.
- Hollister, J. W., J. F. Paul, J. Copeland, R. L. Comeleo, M. Charpentier, P. V. August, M. Brush. Landscape Structure and Estuarine Condition in the Mid-Atlantic Region of the United States: II. Assessing the Accuracy of the National Land Cover Dataset at Multiple Extents. Poster Presentation for the US-International Association for Landscape Ecology Annual Meeting, Tempe, AZ. April 2001.
- J. Ott., J. W. Hollister, C. Guyer, and W. K. Michener. Re-evaluating Guidelines for Gopher Tortoise (*Gopherus polyphemus*) Reserve Design. Ecological Society of America Annual Meeting, Snowbird, UT. August 2000.

- Hollister, J. W., J. Ott, C. Guyer, and W. K. Michener. Estimating Preserve Size for Gopher Tortoises (*Gopherus polyphemus*). US Chapter of the International Association for Landscape Ecology Annual Meeting, Ft. Lauderdale, FL. April 2000.
- Hollister, J. W. and W. K. Michener. Landscape Ecology of the Northern Bobwhite Quail in the Coastal Plain of Georgia. International Association for Landscape Ecology World Congress, Snowmass, CO. July/Aug 1999.

Grants:

- Geospatial Statistical Analysis Seminar, A Cooperative Training Project Between the University of Rhode Island and the US EPA Atlantic Ecology Division, US EPA NHEERL Grant, June 2003. PI's: P. August, L. González; Co-PI's: R. Sand, J. Opaluch, J. Hollister, and D. Grossman-Garber.
- Estuarine Condition and Landscape Structure Relationships in the Mid-Atlantic and Southern New England Regions of the United States, EPA/URI Pre-Doctoral Fellowship (Major Advisor: Peter V. August, EPA Mentor: John F. Paul).

Awards:

- 2011 US EPA, Region 1, Commendable Service Award for Contributions to the Northeast Lakes and Ponds
- 2010 US EPA Science and Technological Achievement Award Honorable Mention
- 2010 ESRI International Users Conference, First Place Poster in Software Integration.
- 2007 USEPA, National Health and Environmental Effects Laboratory, Strategic Goal 4 Award: Science Integration –Interdivisional Laboratory Research, Received with Eric Weissberger, Anita Morzillo, Janet Nestelrode, and John Paul.
- 2006 USEPA, Atlantic Ecology Division, On The Spot Award, Contributions to SABS Workshop
- 2003 Best Student Presentation, North Atlantic Chapter of the Society of Environmental Toxicology and Chemistry 9th Annual Meeting, Mystic CT
- 2003 Rhode Island Surfrider Foundation Robert Lloyd Scholarship
- 2001 NASA-MSU Professional Enhancement Award
- Phi Eta Sigma National Honor Society
- Blue Key National Honor Society

Graduate Advising and Committees:

- Kylie Bishop, 2008, Ph. D. Thesis Defense Committee, Deakin University, Warrnambool, Australia
- Ann Borowik, 2008, Masters of Environmental Science and Management Written Comprehensive Exam Committee, University of Rhode Island, Kingston, RI.

Professional Activities:

- Liaison between USEPA's Ecosystem Services Research Program (ESRP) and the National Ecological Observatory Network (NEON).
- Provided Peer Review for: *Landscape Ecology, Trends in Ecology and Evolution, Plant Ecology, Integrated Environmental Assessment and Management, Remote Sensing of Environment, Journal of Environmental Quality, Selbyana*, Minnesota Sea Grant, and numerous USEPA Office of Research and Development internal reviews.
- List administrator for R-sig-ecology, a Special Interest Group mailing list on the use R in Ecology.
- Participated in the Causal Analysis/Diagnosis Decision Information System (CADDIS) Planning Retreat at Hueston Woods Conference Center, Oxford, OH, April 30 – June 3.
- Co-organized (along with Jason Grear, Suzy Ayyazian, Peter August and Deb Coty) a short course by David Anderson entitled, "Information Theoretic Model Selection and Multimodel Inference in Science and Management", March 28-29, URI Coastal Institute, Narragansett, RI.
- Section Editor, "Ecology on the Web" Department of the Bulletin of the Ecological Society of America, Feb 2007 - Present
- Attended Science Environment for Ecological Knowledge (SEEK) Postdoctoral and New Faculty Training in econinformatics: Jan 8-12, 2007, University of New Mexico.
- Graduate Student Representative to Department of Natural Resources Science at the University of Rhode Island for 4 years
- Graduate student representative at URI-ADVANCE workshops with Department of Natural Resources Science at the University of Rhode Island

- Helped draft a Diversity Statement for Department of Natural Resources Science at the University of Rhode Island
- Assisted with compiling links of software and graduate programs in spatial ecology for the US-IALE web page (<http://www.usiale.org/rellinks.htm>).

Society Memberships and Committees (Past and Current):

- US Chapter of the International Association of Landscape Ecology
 - Counselor at Large, 2012-Present
 - Chair, Site Selection Committee 2012- Present
 - Program Chair, 2012 Annual Meeting, Newport, RI
 - Strategic Planning Committee, 2004-2006
 - Awards Committee, 2009 - Present
- Society for Conservation GIS
- Ecological Society of America
- Rhode Island Natural History Survey
- Northeast Arc Users Group
 - Host Committee and Social Chair for 2010 Northeast Arc Users Group annual meeting in Newport, RI.
 - Chair, Poster session 2006 Northeast Arc Users Group annual meeting in Mystic, CT
 - Host Committee for 2006 Northeast Arc Users Group annual meeting in Mystic, CT

Software and Computing Skills:

- Geographic Information Systems: approximately 18 years experience with ArcGIS, Arc/INFO, ArcView; approximately 3 years experience with Geostatistical Analyst; approximately 1 year experience with ArcIMS and ArcGIS Server
- Remote Sensing: approximately 3 years experience with ERDAS Imagine
- GPS: approximately 3 years experience with Trimble ProXR, Trimble GeoExplorer, Trimble GeoXT, Trimble Pathfinder Office
- Statistics: approximately 8 years experience with R, including using R as a GIS; approximately 5 years experience with SAS; approximately 2 years experience with SPSS; approximately 1 year experience with S-Plus, and SigmaPlot
- Database: approximately 3 years experience with MS Access and SQL
- Webpage Maintenance, Design and Administration: approximately 3 years experience with HTML; approximately 2 years experience with Dreamweaver; approximately 1 year experience with Typo3; approximately 1 year experience with Apache and Internet Information Server; approximately 1 year experience with MovableType; approximately 1 year experience using Drupal; less than 1 year experience with RApache and javascript
- Programming: approximately 9 years experience with Arc Macro Language; approximately 5 years experience with Python; approximately 2 years experience with Visual Basic for Applications - MS Access, and MS Excel; less than 1 year experience with Java
- Operating Systems and Office Software: daily use and systems administration with Windows NT/2000/XP; daily use and extensive knowledge of Microsoft Office 2000; former daily UNIX user. Red Hat and Ubuntu Linux user.

Additional Information:

- Award Winning Homebrewer
- Barbeque-er
- Mediocre Dart player
- SCUBA Certified

References:

Available upon request

