CURRICULUM VITAE

Name: Jeffrey William Hollister

Date and Place of Birth: 1972-09-23, Kansas City, MO

Citizenship: US

Education:

- 2004: Doctor of Philosophy in Environmental Science, Department of Natural Resources Science, University of Rhode Island, Kingston, RI
  - Areas of emphasis: Landscape Ecology, Geospatial Sciences, and Environmental Monitoring. (Advisor: Peter V. August, Ph.D.)
- 1997: Masters of Environmental Management, Nicholas School of the Environment, Duke University, Durham, NC
  - Areas of emphasis: Resource Ecology, Landscape Ecology, and Geospatial Sciences. (Advisor: Patrick N. Halpin, Ph.D.)
- 1995: Bachelor of Science, Magna Cum Laude, Baker University, Baldwin City, KS - Major: Biology with emphasis in ecology. (Advisor: Roger L. Boyd, Ph.D.)

Brief Chronology of Employment:

- Present - December 2019: Ecologist, GS14, US EPA, Center for Environmental Measurement and Modeling, Atlantic Coastal Environmental Sciences Division
  - TQB package: 2019-05-06, TQB panel: 2019-08-28, Promotion processed: 2019-12-22
- April 2024 - December 2023: Acting Supervisory Ecologist, GS15, US EPA, Center for Environmental Measurement and Modeling, Atlantic Coastal Environmental Sciences Division, Temporary Promotion
- April 2023 - December 2022: Acting Supervisory Ecologist, GS15, US EPA, Center for Environmental Measurement and Modeling, Atlantic Coastal Environmental Sciences Division, Temporary Promotion
- December 2019 - August 2008: Research Ecologist, GS13, US EPA, National Health and Environmental Effects Research Laboratory, Atlantic Ecology Division
- July 2008 - May 2006: Postdoctoral Landscape Ecologist, GS12, US EPA, National Health and Environmental Effects Research Laboratory, Atlantic Ecology Division
- May 2006 - August 2005: Postdoctoral Fellow, US Coast Guard Academy, Department of Science
- July 2005 - January 2005: Postdoctoral Associate, American Institute of Biological Sciences, National Ecological Observatory Network (NEON) Project Office
- July 2000 - June 1998: Lead Research Technician, J.W. Jones Ecological Research Center, Landscape Ecology Lab
- January 1998 - August 1997: Geographic Information Systems Specialist, Research Triangle Institute

Societies:

- American Geophysical Union
- US Chapter of the International Association of Landscape Ecology
- Ecological Society of America
- Northeast Arc Users Group (past)
- Ecological Society of America, Open Science Section (past)
- Rhode Island Natural History Survey (past)
- Society for Conservation GIS (past)

Honors (Year Received):

- 2024: US EPA National Honor Gold Medal Team award for "ORD Reservoir Greenhouse Gas Emissions Team." Nominated by Office of Research and Development
- 2024: US EPA Office of Research and Development Award for providing support to EPA on the topic of Open Science. Nominated by Kacee Deener, Director, ORD-OSAPE
- 2023: US EPA Office of Research and Development Kudos Award for CEMM-wide Collaborative and Open Data Science Team. Nominated by CEMM
- 2023: US EPA Peer-to-peer Shooting Stars Award for ORD Code Based Modeling QAPP Checklist. Nominated by Andrea Bartolotti
- 2023: US EPA Peer-to-peer Shooting Stars Award for R training provided to CEMM Quality Assurance Team. Nominated by Kara Godineaux
- 2022: US EPA Peer-to-peer Shooting Stars Award for ROCS-Net Training and HABs Presentation.
- 2019: US EPA Bronze Medal for Commendable Service for Collaborative Work to Produce the 2016-2019 Safe and Sustainable Water Resources Strategic Action Plan.
- 2017: US EPA Certificate of Appreciation for Co-Leading First EPA R Workshop. Nominated by Office of Environmental Information.
- 2016: US EPA Pathfinder Innovation Program, Stage 1 Award Winner, Watershed Aggregate Effects and Spatial Predictions on Stream Networks, with Michael McManus (PI), Philip Morefield, Jay Christensen, Drew Pilant, and Marc Weber
- 2015: US EPA Bronze Medal for Commendable Service to the Safe and Sustainable Water Resources National Program Team
- 2015: US EPA, Region 1, 2015 Science Achievement Award - Water Quality for Cyanobacteria Monitoring Initiative Team, with Hilary Snook, Betty Kreakie and Bryan Milstead
- 2014: US Regional Association of the International Association for Landscape Ecology Certificate of Appreciation for Outsanding Service the US-IALE as Councilor-at-large.
- 2012: US Regional Association of the International Association for Landscape Ecology Certificate of Appreciation for Outsanding Service the US-IALE as Program Chair of the 2012 Annual Meeting.
- 2011: US EPA Bronze Medal 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, with Jane Copeland
- 2007: USEPA, National Health and Environmental Effects Research 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 Suspended and Bedded Sediments 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

Research Interests:

I am an ecologist and environmental data scientist with interests and expertise at the intersection of limnology, landscape ecology, GIS, open science, R and data science. My past experience is in applications of geospatial technologies (such as geographic information systems, spatial statistics, and remote sensing) to environmental research and broad scale environmental monitoring, modeling and assessment. Currently, my research focus is on monitoring and forecasting cyanobacterial blooms in lakes and ponds. A unifying theme to my research is using Open Science (Open Access, Open Source, and Open Data) and data science to benefit environmental science. My work is unique in that it combines elements of traditional research with expert level consultation and advising on data science and open science.

Committee and Consultant Appointments, Professional Society Elected Appointments, Adjunct Faculty Appointments, Advisory and Editorial Appointments:

- Present - 2024: Member, White House Office of Science and Technology's Policy's, Subcommittee on Open Science, Subgroup on Engagement (paused as of Jan 2025)
- Present - 2024: Co-lead, USEPA Center for Environmental Measurement and Modelling Data Science Technical Exchange
- Present - 2021: Associate Editor, rOpenSci Software Peer Review
- Present - 2019: Member, Research Area Coordination Team, ORD Safe and Sustainable Water Resources, Assessment and Management of Harmful Algal Blooms
- Present - 2019: International Association of Landscape Ecology - North America Listserv/Google Groups Manager
- Present - 2019: Site Selection Committee for International Association of Landscape Ecology - North America
- Present - 2016: Adjunct Associate Professor, University of Rhode Island, Natural Resources Science Department
- Present - 2016: Co-lead, US EPA R Users Group
- Present - 2015: Invited and Founding Member, Interagency R User's Group, U.S. Bureau of Labor Statistics (Lead)
- Present - 2014: Data Carpentry/Software Carpentry Instructor
- Present - 2014: rOpenSci Member and Package Reviewer
- Present - 2008: List administrator for R-sig-ecology, a Special Interest Group mailing list on the use R in Ecology
- Present - 2005: Senior Fellow, Coastal Institute, University of Rhode Island
- Present - 2000: Peer Reviewer for: Ecological Applications, Journal of Open Source Software, Journal of Open Source Education, rOpenSci, Ecological Informatics, 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 USEPA Office of Research and Development
- 2024 - 2024: Editor-in-chief, rOpenSci Software Peer Review
- 2024 - 2023: Member, White House Office of Science and Technology's Policy's Subgroup on the Year of Open Science 2023
- 2024 - 2021: Co-chair, Data Carpentry Geospatial Curriculum Advisory Committee.
- 2023 - 2023: Member, USEPA R User Group Annual Meeting Planning Committee
- 2022 - 2019: Section Editor, Methodological Developments, Current Landscape Ecology Reports
- 2022 - 2016: Co-chair, USEPA R User Group Annual Meeting
- 2021 - 2021: Guest Editor, rOpenSci Software Peer Review
- 2021 - 2018: Member, Data Carpentry Geospatial Curriculum Advisory Committee.
- 2020 - 2015: Founder and lead for rhodyRstats, an R Study Group for the Rhode Island research community

- 2020 - 2015: Co-task Lead, SSWR 4.01C: A Data Intensive Investigation of Temperature Impacts and Bloom Modeling
- 2019 - 2019: Member, Open Source Software Task Force, U.S. Army Research Laboratory
- 2019 - 2018: US-IALE Listserve Manager
- 2019 - 2018: Member, USEPA Code Ownership and Development at EPA (CODE) Workgroup
- 2019 - 2012: Site Selection Committee (Chair, 2012-2014) for US Chapter of the International Association of Landscape Ecology
- 2018 - 2016: Member, Ecological Society of America Ecology Data Publication Task Force
- 2018 - 2018: Member, R Consortium Diversity and Inclusion Working Group
- 2018 - 2016: Co-chair and co-founder, Nor'eastR Conference.
- 2017 - 2016: Founder and lead for USEPA Atlantic Ecology Division R Study Group
- 2016 - 2009: Awards Committee for US Chapter of the International Association of Landscape Ecology
- 2016 - 2007: Adjunct Assistant Professor, University of Rhode Island, Natural Resources Science Department
- 2015 - 2015: Invited Member, Lower Colorado Drought Visualization Development Team, with USGS(lead), Bureau of Reclamation, Oregon State University, Western States Water Council, and others.
- 2015 - 2013: Co-Task Lead (with B. Kreakie) for SSWR 2.3C: Cyanobacteria, Nutrients, and Land Use – a Nexus for Sustainable Water Resources and Human Health Protection
- 2015 - 2013: Oral Defense Committee, Galen Scott, Ph. D., University of Rhode Island, Kingston, RI
- 2014: Steering Committee for The Nature Conservancy's Northeast Lake and Pond Classification System. link:
- 2014 - 2012: Counselor-at-large on US Chapter of the International Association of Landscape Ecology Executive Committee
- 2013 - 2012: Co-Task Lead (with J. Copeland) for SSWR 6.1C: Narragansett Bay and Watershed Sustainability – Demonstration Project
- 2013 - 2012: Task Lead for SHC 3.3.1.6: Northeast Lakes Ecosystem Services Task
- 2012 - 2010: Program Chair for 2012 US Chapter of the International Association of Landscape Ecology Executive Committee Annual Meeting
- 2011 - 2010: Liaison between USEPA's Ecosystem Services Research Program (ESRP) and the National Ecological Observatory Network (NEON)
- 2010: Social Chair and Host Committee, Northeast Arc Users Group Annual Meeting in Newport, RI
- 2010 - 2007: Section Editor,"Ecology on the Web" of the Bulletin of the Ecological Society of America
- 2008: Thesis Defense Committee, Kylie Bishop, Ph. D. Deakin University, Warrnambool, Australia
- 2008: Comprehensive Exam Committee, Ann Borowick, Masters of Environmental Science and Management, University of Rhode Island, Kingston, RI
- 2006: Poster Session Chair and Host Committee, Northeast Arc Users Group Annual Meeting in Mystic, CT
- 2006 - 2004: Strategic Planning Committee, US Chapter of the International Association of Landscape Ecology Executive Committee

Invited Lectures, Seminars, Workshops, and Panels:

32. **Hollister, J. W.** (2024). Can't Get There From Here. Invited by Stefanie Butland and Julia Stewart-Lowndes, Presentation to USEPA/CEMM Openscapes Cohort Call. April 2024.

31. **Hollister, J. W.** (2023). Can't Get There From Here. Invited by Julia Stewart-Lowndes, Presentation to USEPA/CEMM Openscapes Cohort Call. February 2023.

30. **Hollister, J. W.**. (2022). Automating an ecological data workflow with Github Actions and R. Invited by Valerie Bataille, Tribal Data management Work Group. April 2022

29. **Hollister, J. W.**, G. Hagler, T. Gleason. (2022). R in 10 Minutes, Invited by Gayle Hagler and Alice Gilliland, CEMM Management Team Meeting. February 2022.

28. **Hollister, J. W.** and S. D. Shivers. (2021). HABs monitoring in Shubael Pond. Invited by Tim Gleason, Nutrients Solutions Driven Research Pilot Partners Call. July 2021.

27. **Hollister, J. W.** (2021). Introduction to R, Invited by Amanda Russell and Chelsea Proctor, EPA's Emerging Leaders Network. February 2021. https://github.com/jhollist/eln_r_talk

26. **Hollister, J. W.** (2020). Open source tools to calculate and predict lake morphometry metrics. Invited by Michael Frederick Meyer, Virtual Summit: Incorporating Data Science and Open Science in Aquatic Research. July 2020. https://www.youtube.com/watch?v=Qs0PZuSF5Dw

25. **Hollister, J. W.** (2019). Scaling Data Science at the EPA. Invited by RStudio, Online Webinar, November 2019. https://posit.co/resources/videos/scaling-data-science-at-the-epa/

24. **Hollister, J. W.** (2019). Two steps forward, one step back: A reluctant open data science transformation at the US EPA. Invited by USGS, Samantha Oliver, Madison, WI. July 2019. https://github.com/jhollist/two_steps_forward

23. **Hollister, J. W.** and S. Shivers. (2019). Mini-workshop on R Spatial and Limnology Packages. Invited by Trout Lake Station, University of Wisconsin. July 2019. https://github.com/jhollist/troutlake_rspatial

22. **Hollister, J. W.** (2019). A primer for R with ESRI Workshop. Invited by UConn CLEAR, University of Rhode Island, Kingston, RI. March 2019. https://github.com/jhollist/clear_r_2019

21. **Hollister, J. W.** (2018). Git, GitHub and EPA. US EPA's Water Quality Benefits Workgroup (BEN-SPLASH) Webinar. August 2018.

20. **Hollister, J. W.** and S. Wilson. (2018). Introduction to R Workshop. USEPA, Region 2, New York, NY. June 2018. https://github.com/USEPA/workshops/tree/main/r/2018/region2_r

19. **Hollister, J. W.** (2018). Introduction to R and Markdown Workshop. Narragansett Bay Commission, Providence, RI. April 2018. https://github.com/jhollist/narrabay_r

18. **Hollister, J. W.** and F. Nojavan. (2018). Introduction to Reproducible Workflows with R, Markdown, and GitHub Workshop. Yale University, New Haven, CT. March 2018. https://github.com/jhollist/yale_r_2018

17. **Hollister, J. W.** and B. J. Kreakie. (2017). Using Chlorophyll *a* as a Surrogate for Exceeding Microcystin Health Advisory Concentrations. Invited speaker. "Cyanobacteria - Monitoring and Treating Drinking Water: A Workshop for Water Suppliers." December 2017. Worcester, MA.

16. **Hollister, J. W.** and M. Beck. (2017). Introduction to R for Analysis of Coastal and Estuarine Data Workshop. Coastal and Estuarine Research Federation Annual Meeting, Providence, RI. November 2017. https://github.com/USEPA/workshops/tree/main/r/2017/cerf_r.

15. **Hollister, J. W.** (2017). R-a-palooza: Introduction to R, Reproducible Research with R, and Spatial analysis/GIS with R Workshops . Co-hosted with Stephen Krabbe (USEPA Region 7). US EPA Region 7 Laboratory and Regional Offices. Kansas City, KS and Lenexa, KS. October 2017. https://github.com/USEPA/workshops/tree/main/r/2017/epa_r_workshop_2017.

14. **Hollister, J. W.** (2017). An Open Science Framework for Research on Cyanobacteria in Lakes and Ponds. US EPA Region 7 Regional Office, October 2017. Lenexa, KS.

13. **Hollister, J. W.** (2017). Introduction to R Workshop . Co-hosted with Stephen Krabbe(USEPA Region 7). US EPA Region 7 Regional Laboratory. Kansas City, KS. February 2017. https://github.com/USEPA/region7_r/blob/master/README_feb_2017.md.

12. **Hollister, J. W.** (2016). Introduction to R Workshop. Co-hosted with Erik Beck (USEPA/Region 1) and Katrina Kipp (USEPA/Region 1). US EPA New England Regional Laboratory. Chelmsford, MA. June 2016. https://github.com/USEPA/workshops/tree/main/r/2016/region1_r.

11. **Hollister, J. W.** (2016). Introduction to R Workshop. Co-hosted with Erik Beck (USEPA/Region 1). US EPA Region 1 Headquarters. Boston, MA. May 2016. https://github.com/USEPA/workshops/tree/main/r/2016/region1_r.

10. **Hollister, J. W.** (2016). Introduction to GIS with R Workshop. Co-hosted with Sandra Gaona (USEPA/OEI), Shea Caspersen (USEPA/OEI) and Paul Stey (USEPA/OECA). US EPA. Washington, DC. March 2016. https://github.com/USEPA/workshops/tree/main/r/2016/intro_gis_with_r.

9. **Hollister, J. W.** and others. (2015). Federal Agency Networking Session. Invited panelist. Organizers: Alan Wilson, Henry Gholz, and Daniel B. Stover. 100th Annual Ecological Society of America meeting. August 2015. Baltimore, MD.

8. **Hollister, J. W.** (2015). Open Science: A Zealot's View. Invited Symposium Speaker, "Emerging Issues and Novel Technologies in Coastal Ecosystem Science", New England Estuarine Research Society Spring Meeting. April 2015. Bristol, RI.

7. **Hollister, J. W.** (2015). Introduction to R Workshop . USEPA Gulf Ecology Division. Gulf Breeze, FL. Jan 2015. https://github.com/USEPA/workshops/tree/main/r/2015/introR.

6. **Hollister, J. W.** (2013). R for Spatial Data Management and Analysis Workshop. US Chapter of the International Association for Landscape Ecology Annual Meeting. April 2013. Austin, TX.

5. **Hollister, J. W.** (2012). 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.

4. **Hollister, J. W.**, W. B. Milstead, K. C. Hychka, H. A. Walker, J. L. Copeland. (2011). Nutrients, Ecosystem Services, and Human Health in Northeastern Lakes and Ponds. Invited Seminar at Western Connecticut State University, Dept of Biology Seminar Series.

3. **Hollister, J. W.** (2003). Assessing and Monitoring our 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.

2. **Hollister, J. W.** (2002). Spatial Analysis and Spatial Statistics Workshop , St. Lawrence University, Canton, NY.

1. **Hollister, J. W.**, J. Copeland, P. V. August, J. F. Paul. (2002). Assessing the Predictive Capability of Hydrologically Defined Sampling Units for Landscape Analysis. Invited speaker at St. Lawrence University, Canton, NY.

Bibliography:

27. Kellogg, D. Q., **J. W. Hollister**, C. L. Arnold, A. J. Gold, E. H. Wilson, C. B. Chadwick, D. W. Dickson, Q.Lei-Parent, K. J. Forshay (2024). Assessing landscape N removal in coastal New England catchments using the N-Sink approach with the R Package, *nsink*. F1000Research. https://doi.org/10.12688/f1000research.144100.1

26. Lowndes, J., A. Holder, E. Markowitz, C. Claterbuck, A. Bradford, K. Doering, M. Stevens, S. Butland, D. Burke, S. Kross, **J. W. Hollister**, C. Stawitz, M. Siple, A. Rios, J. Welch, B. Li, F. Nojavan, A. Davis, E. Steiner, J. London, I. Fenwick, A. Hunzinger, J. Verstaen, E. Holmes, M. Virdi, A. Barrett, E.

Robinson. (2024). Shifting institutional culture to develop climate solutions with Open Science. Ecology and Evolution. https://doi.org/10.1002/ece3.11341

25. Raposa, K.B., A. Woolfolk, C. A. Endris, M. C. Fountain, G. Moore, M. Tyrrell, R. Swerida, S. Lerberg, B. J. Puckett, M. C. Ferner, **J. W. Hollister**, D. M. Burdick, L. Champlin, J. R. Krause, D. Haines, A. B. Gray, E. B. Watson, K. Wasson. (2023). Evaluating Thin-Layer Sediment Placement as a Tool for Enhancing Tidal Marsh Resilience: a Coordinated Experiment Across Eight US National Estuarine Research Reserves. Estuaries and Coasts 46. 595–615. https://doi.org/10.1007/s12237-022-01161-y

24. **Hollister, J. W.**, D. Q. Kellogg, Q. Lei-Parent, E. Wilson, C. Chadwick, D. Dickson, A. Gold. C. Arnold. (2022). nsink: An R package for flow path nitrogen removal estimation. Journal of Open Source Software 7(71). 4039. https://doi.org/10.21105/joss.04039.

23. Kreakie, B. J., S. D. Shivers, **J. W. Hollister**, W. B. Milstead. (2021). Predictive Model of Lake Photic Zone Temperature Across the Conterminous United States. Frontiers in Environmental Science 9. https://doi.org/10.3389/fenvs.2021.707874

22. **Hollister, J. W.**, D. Q. Kellogg, B. J. Kreakie, S. D. Shivers, W. B. Milstead, E. M. Herron, L. T. Green, A. J. Gold. (2021). Analyzing long-term water quality of lakes in Rhode Island and the northeastern United States with an anomaly approach. Ecosphere 12:6. https://doi.org/10.1002/ecs2.3555.

21. Raposa, K. B., R. L. Weber, W. Ferguson, **J. W. Hollister**, R. Rozsa, N. Maher, A. Gettman. (2019), Drainage enhancement effects on a waterlogged Rhode Island (USA) salt marsh. Estuarine, Coastal and Shelf Science 231. https://doi.org/10.1016/j.ecss.2019.106435

20. Nojavan A., F., B. J. Kreakie, **J. W. Hollister**, S. S. Qian. (2019). Rethinking the Lake Trophic State Index. PeerJ 7:e7936 https://doi.org/10.7717/peerj.7936

19. Raposa, K. B., R. A. McKinney, C. Wigand, **J. W. Hollister**, C. Lovall, K. Szura, J. A. Gurak Jr., J. McNamee, C. Raithel, and E. B. Watson. (2018). Top-down and Bottom-up Controls on Overabundant New England Salt Marsh Crab Populations. PeerJ 6:e4876. https://peerj.com/articles/4876/

18. Kuhn, A., S. G. Leibowitz, Z. C. Johnson, J. Lin, J. A. Massie, **J. W. Hollister**, J. L. Ebersole, J. L. Lake, J. R. Serbst, J. James, M. G. Bennett, R. J. Brooks, C. T. Nietch, L. C. Alexander, J. E. Compton. (2018). Performance of National Maps of Watershed Integrity at Watershed Scales. Water 10:5. https://doi.org/10.3390/w10050604

17. **Hollister, J. W.** and J. J. Stachelek. (2017). lakemorpho: Calculating Lake Morphometry Metrics in R. F1000Research 6:1718. https://dx.doi.org/10.12688/f1000research.12512.1.

16. Chamberlain, S, and **J. W. Hollister** (2017). lawn: R Client for turf.js for Geospatial Analysis. Version 0.3.3. Journal of Open Source Software 2:11. https://dx.doi.org/10.21105/joss.00194.

15. Hart, E., P.Barmby, D. LeBauer, F. Michonneau, S. Mount, P. Mulrooney, T. Poisot, K. H. Woo, N. Zimmerman, **J. W. Hollister**. (2016). Ten Simple Rules for Digital Data Storage. PLoS Computational Biology. e1005097. https://dx.doi.org/10.1371/journal.pcbi.1005097.

14. **Hollister, J. W.**, W. B . Milstead, B. J. Kreakie. (2016). Modeling Lake Trophic State: A Random Forest Approach. Ecosphere 7:3. https://onlinelibrary.wiley.com/doi/10.1002/ecs2.1321/full.

13. **Hollister, J. W.**, B. J. Kreakie (2016). Associations Between Chlorophyll *a* and Various Microcystin-LR Health Advisory Concentrations. F1000Research 5:151. https://dx.doi.org/10.12688/f1000research.7955.2.

12. Milstead, W. B., **J. W. Hollister**, R. B. Moore, H. A. Walker. (2013). Estimating Summer Nutrient Concentrations in Northeastern Lakes from SPARROW Load Predictions and Modeled Lake Depth and Volume. PLoS ONE 8(11): e81457. https://dx.doi.org/10.1371/journal.pone.0081457

11. **Hollister, J. W.**, W. B. Milstead, M.A. Urrutia (2011). Predicting Maximum Lake Depth from Surrounding Topography. PLoS ONE 6(9): e25764. https://dx.doi.org/10.1371/journal.pone.0025764.

10. **Hollister, J. W.**, W. B. Milstead (2010). Using GIS to Estimate Lake Volume from Limited Data. Lake and Reservoir Management. 26(3)194-199. https://dx.doi.org/10.1080/07438141.2010.504321.

9. 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. https://dx.doi.org/10.1007/s00267-010-9485-3.

8. 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. https://dx.doi.org/10.1016/j.marpolbul.2008.11.009.

7. 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. https://dx.doi.org/10.1007/s10661-008-0675-x.

6. **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. https://dx.doi.org/10.2134/jeq2007.0536.

5. **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. https://dx.doi.org/10.2134/jeq2007.0105.

4. **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. https://dx.doi.org/10.1007/s10980-007-9143-1.

3. **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. https://dx.doi.org/10.14358/PERS.70.4.405.

2. 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. https://dx.doi.org/10.1080/01490410306704.

1. 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). https://github.com/jhollist/jwhollister.com/tree/main/docs/public_files/files/Eubanks_etal_2002.pdf.

Book Chapters, Conferences, Proceedings, Monographs:

1. 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. https://www.jonesctr.org/research/research_publications/Pdf/MichenerProcIVNatQuailSymp.pdf.

Other Reports (i.e., in-house technical reports, deliverables, etc.):

18. Kreakie, B. J., **J. W. Hollister**, and W. B. Milstead (2015). SSWR 4.01C Task Plan: A Data Intensive Investigation of Temperature Impacts and Bloom Modelling.

17. Kreakie, B. J., **J. W. Hollister**, W. B. Milstead, F. Nojavan A. (2015). Computational Ecology and Open Science: Tools to Help Manage Cyanobacteria in Lakes. LakeLines Magazine. https://z0ku333mvy924cayk1kta4r1-wpengine.netdna-ssl.com/wp-content/uploads/LakeLine/35-2/Articles/35-2-8.pdf.

16. Kreakie, B. J., **J. W. Hollister**, W. B. Milstead (2014). Modeling Cyanobacteria Ecology to Keep Harmful Algal Blooms at Bay. US EPA It All Starts with Science Blog. https://blog.epa.gov/science/2014/06/modeling-cyanobacteria-ecology-to-keep-harmful-algal-blooms-at-bay/.

15. **Hollister, J. W.**, B. J. Kreakie, and W. B. Milstead. (2014). Opening Our Science: Open Science and Cyanobacterial Research at EPA. US EPA It All Starts with Science Blog. https://blog.epa.gov/science/2014/06/open-science-and-cyanobacterial-research-at-epa/.

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Abstracts and Presentations:

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62. Deemer, B. R., J. J. Beaulieu, K. Forshay, N. Griffiths, L. Herger, **J. W. Hollister**, S. Jacobs, P. Leinenbach, R. Pilla, S. Shivers, A. Tatters. (2024). Moedling methane and carbon dioxide emissions from U.S. reservoirs. American Geophysical Union 2024. Washington, DC/Online. December 2024.

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59. Shivers, S. D., **J. W. Hollister**, J. Stankoski. (2024). Evaluation of Sample Shipping, Handling, and Storage on Algal Pigments (Chlorophyll a and Phycocyanin). Association for the Science of Limnology and Oceanography Annual Meeting, Madison, WI. June 2024.

58. Stankoski, J., S. D. Shivers, **J. W. Hollister**, S. Fournier, B. J. Kreakie. (2024). Comparing Fluorometric Methods (in-vivo vs Extracted) for cyanoHAB Monitoring in Six Rhode Island Ponds. Northeast Aquatic Biologists Conference. Fairlee, VT. February 2024.

57. **Hollister, J. W.**. (2022). Automating an Ecological Data Workflow with GitHub Actions and R. Government Advances in Statistical Programming (GASP), Virtual. February 2022.

56. East, A., P. S. Price, K. Dionisio, K. Isaacs, **J. W. Hollister**, D. Dawson, E. Hubal, R. Tornero-Velez, K. Phillips, G. Glen, H. Hubbard, J. Levasseur, J.Luh, A. Fisher. (2021). The Residential Population Generator (RPgen): A Tool for Creating Internally Consistent Populations and Households. ISES Annual Meeting, Virtual. August 2021.

55. Shivers, S. D., B. J. Kreakie, **J. W. Hollister**, S. Fournier, W. B. Milstead. (2021). Temporal Dynamics of Cyanobacteria Blooms in Three Rhode Island Ponds. 12th National Monitoring Conference, Virtual. April 2021.

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53. Shivers, S.D., B. J. Kreakie, W. B. Milstead, **J. W. Hollister**. (2019). Lake Photic Zone Temperature Across the Conterminous United States. 39th International Symposium of the North American Lake Management Society. Burlington, VT. November 2019.

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International Symposium of the North American Lake Management Society. Burlington, VT. November 2019.

51. Kreakie, B. J., **J. W. Hollister**, D. Q. Kellogg, S. D. Shivers, E. Herron, L. Green, A. Gold. (2019). 25 Years of Water Quality Change in Rhode Island Lakes and Ponds. Society for Freshwater Science. Salt Lake City, UT. May 2019.

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49. Snook, H., B. J. Kreakie, W. B Milstead, and **J. W. Hollister**. (2018). The Cyanobacteria Monitoring Collaborative: Multi-Tiered Approach to Citizen Science Based Cyanobacteria Monitoring. Office of Research and Development Regional Science Poster Session, Durham, NC. September 2018.

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44. Nojavan A., F., B. J. Kreakie, **J. W. Hollister**. (2017). A Bayesian Multilevel Model for Microcystin Prediction in Lakes of the Continental United States. American Association of Geographers Annual Meeting. April 2017, Boston, MA.

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42. Kreakie, B. J., F. Nojavan A., **J. W. Hollister**, W. B. Milstead. (2016). Computational Approaches to Predict Indices of Cyanobacteria Toxicity, National Water Quality Monitoring Council (NWQMC) Annual Meeting. May 2016, Tampa, FL.

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37. **Hollister, J. W.**, W. B. Milstead, B. J. Kreakie. (2014). Expanding Models of Lake Trophic State to Predict Cyanobacteria in Lakes: A Data Mining Approach. 99th Annual Ecological Society of America Annual Meeting, Sacramento, CA. August 2014. https://f1000research.com/posters/1096851.

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35. Kreakie, B. J., W. B. Milstead, **J. W. Hollister**. (2014). Combined Influence of Landscape Composition and Nutrient Inputs on Lake Trophic Structure. US Chapter of the International Association for Landscape Ecology Annual Meeting, Anchorage, AK. May 2014.

34. **Hollister, J. W.** (2014). Blogging, Social Media, and Science: EPA Edition. Presentation given at USEPA Atlantic Ecology Division. March 2014.

33. **Hollister, J. W.**, W. B. Milstead, K. C. Hychka, H.A. Walker, J. L. Copeland. (2011). 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.

32. Copeland, J. L., **J. W. Hollister**. (2010). Geospatial Tools for Ecosystem Services. ESRI International Users Conference, San Diego, CA. June 2010.

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30. Milstead, W. B., **J. W. Hollister**, H. A. Walker, J. A. Kiddon, J. L. Copeland, H. W. Buffum, M. A. Charpentier, D. J Keith. (2010). A Northeastern US Lakes Database to Support Ecosystem Services Research. Annual Meeting of the North East Association of Environmental Biologists, Newport, RI, March 2010.

29. **Hollister, J. W.** and W. B. Milstead. (2009). Using GIS to Estimate Lake Volume from Limited Data. Annual Meeting of the North American Lake Management Society, Hartford, CT. October 2009.

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27. **Hollister, J. W.**, A. Kuhn-Hines, J. L. Copeland. (2009). 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.

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24. **Hollister, J. W.**, H. W. Walker. (2008). Landscape Thresholds and the Condition of Northeastern Estuaries. New England Estuarine Research Society Spring Meeting. Portsmouth, NH. May 2008.

23. Walker, H. A., **J. W. Hollister**, B. Wilson, R. Scarborough, D. Carter, D. Kreeger, K. Laudenabuch-Nelson, A. Howell, C. Strobel. (2008). 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.

22. Keith, D. J., **J. W. Hollister**, A. Kuhn-Hines. (2008). 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.

21. **Hollister, J. W.** (2008). The New Space Race: Getting Landscape Data More Fully Integrated into Causal Analysis. Super Causal Analysis Team Workgroup (SuperCAT) Meeting. February 2008.

20. **Hollister, J. W.**, A. T. Morzillo, E. J. Weissberger, J. A. Nestlerode, and J. F. Paul. (2007). Comparing Apples to Apples: Generating a Nationally Consistent Index of Benthic Biology in Estuarine Waters. Estuarine Research Foundation Annual Meeting, Providence, RI November 2007.

19. Benyi, S. J., J. A. Kiddon, **J. W. Hollister**, H. A. Walker. (2007). Interpreting Differences in Several Benthic Indices. Estuarine Research Foundation Annual Meeting, Providence, RI November 2007.

18. **Hollister, J. W.** (2007). Estuarine Monitoring and Assessment: The Integral Role of GIS. Rhode Island Geographic Information Systems Conference, Narragansett RI, June 2007.

17. Walker, H. A., **J. W. Hollister**, B. Wilson, R. Scarborough, D. Carter, D. Kreeger, K. Laudenabuch-Nelson, A. Howell, C. Strobel. (2007). More Precise Assessment of Benthic Conditions in Delaware Bay. Environmental Monitoring and Assessment Program Annual Symposium, Washington DC, April 2007.

16. **Hollister, J. W.** and J. L. Copeland. (2007). 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.

15. Weissberger, E. J. , J. A. Nestlerode, A. T. Morzillo, **J. W. Hollister**, J. F. Paul. (2007). 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.

14. **Hollister, J. W.** (2007). Ecoinformatics: What Is It and Why Should You Care? Seminar at US EPA Atlantic Ecology Division, February 2007.

13. **Hollister, J. W.**, J. F. Paul, J. L. Copeland, M. L. Gonzalez, P. V. August. (2006). 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.

12. **Hollister, J. W.** (2006). Predicting Condition of Small Estuarine Systems along the United States Atlantic Coast. Seminar at US EPA Atlantic Ecology Division, June 2006.

11. **Hollister, J. W.**, P. V. August, J. F. Paul. (2006). 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.

10. **Hollister, J. W.**, P. V. August, J. F. Paul. (2006). 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.

9. Hayden, B., C. Brewer, D. Estrin, J. Goldman, W. Michener, C. Baru, C. Cid, S. Collinge, D. Foster, J. Franklin, D. Goldberg, L. Huenneke, L. Krishtalka, J. Levitt, J. MacMahon, K. Nadelhoffer, M. Palmer, O. J. Reichman, H. Swain, M. Welge, **J. W. Hollister**. (2005). Designing the National Ecological Observatory Network (NEON). North American Carbon Program Data Management Workshop, New Orleans, LA. January 2005.

8. **Hollister, J. W.**, J. Copeland, P. V. August, J. F. Paul. (2004). 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.

7. **Hollister, J. W.**, J. Copeland, P. V. August, J. F. Paul. (2003). 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.

6. **Hollister, J. W.**, J. Copeland, P. V. August, J. F. Paul. (2002). Utilizing Hydrologically Defined Sampling Units for Landscape Analysis. Northeast Arc Users Group Annual Meeting, Mt. Washington Hotel, Bretton Woods, NH. November 2002.

5. **Hollister, J. W.**, J. F. Paul, J. Copeland, R. L. Comeleo, M. Charpentier, P. V. August, M. Brush. (2001). 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.

4. **Hollister, J. W.**, J. F. Paul, J. Copeland, R. L. Comeleo, M. Charpentier, P. V. August, M. Brush. (2001). 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.

3. Ott. J., **J. W. Hollister**, C. Guyer, and W. K. Michener. (2000). Re-evaluating Guidelines for Gopher Tortoise (*Gopherus polyphemus*) Reserve Design. Ecological Society of America Annual Meeting, Snowbird, UT. August 2000.

2. **Hollister, J. W.**, J. Ott, C. Guyer, and W. K. Michener. (2000). Estimating Preserve Size for Gopher Tortoises (*Gopherus polyphemus*). US Chapter of the International Association for Landscape Ecology Annual Meeting, Ft. Lauderdale, FL. April 2000.

1. **Hollister, J. W.** and W. K. Michener. (1999). 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.

Workshops:

15. **Hollister, J. W.** (2023). Introduction to R: USEPA Atlantic Coastal Environmental Sciences Division and Center for Environmental Meaurement and Modelling Quality Assurance Staff. Virtual Workships. January 2023 - March 2023. GitHub

14. **Hollister, J. W.**, S. Krabbe, D. Boring, S. Henderson. (2019). Introduction to R: Co-hosted with EPA Region 7 and Kansas Department of Health and Environment. University of Kansas Edwards Campus, December 2019. GitHub

13. Litterman, R., S. Shivers, H. Dekker, R. Schwartz, and **J. W. Hollister**. (2019). Data Carpentry Social Science Workshop. Co-hosted with rhodyRstats and URI Coastal Institute. University of Rhode Island, Kingston, RI. January 2019. https://rhodyrstats.github.io/2019-01-15-uri/.

12. **Hollister, J. W.** (2017). Spatial Analysis/GIS with R. Workshop at USEPA R User Group Workshop, Washington, DC. Sep 11- 13, 2017. https://github.com/usepa/rspatial_workshop.

11. Schwartz, R. S. and **J. W. Hollister**. (2017). Data Carpentry Workshop. Co-hosted with rhodyRstats and URI Coastal Institute. Co-taught with Rachel Schwartz. University of Rhode Island Coastal Institute, Narragansett, RI. June 07-08, 2017. https://rhodyrstats.org/2017-06-07-uri/

10. **Hollister, J. W.** (2017). rhodyRstats Introduction to R Workshop. Co-hosted with rhodyRstats and URI Coastal Institute. University of Rhode Island Coastal Institute, Narragansett, RI. Jan 19, 2017. https://github.com/rhodyrstats/intro_r_workshop.

9. **Hollister, J. W.** and R. Peek (2016). Data Carpentry Workshop. Co-hosted with rhodyRstats and URI Coastal Institute. Co-taught with Ryan Peek. University of Rhode Island Coastal Institute. Aug 29-30, 2016. https://rhodyrstats.org/2016-08-29-uri.

8. **Hollister, J. W.** (2016). Introduction to R. US EPA Atlantic Ecology Division. Narragansett, RI, July 2016. https://github.com/USEPA/aed_r/tree/master/workshop.

7. **Hollister, J. W.** (2016). rhodyRstats Intro to R Workshop. Co-Hosted with J. Swift and P. V. August. University of Rhode Island Coastal Institute. Narragansett, RI. January 2016. https://github.com/rhodyrstats/intro_r_workshop.

6. **Hollister, J. W.**, W. B. Milstead, B. J. Kreakie, and S. Chamberlain (2015). An Open Science and Reproducible Research Primer for Landscape Ecologists. Co-presented with W. B. Milstead, B. J. Kreakie,

and S. Chamberlain. International Association for Landscape Ecology World Congress. Portland, OR. July 2015. https://github.com/jhollist/iale_open_science.

5. **Hollister, J. W.** (2015). Introduction to R Workshop. USEPA Atlantic Ecology Division. Narragansett, RI Jan 2015.

4. **Hollister, J. W.** (2014). Introduction to R Workshop. USEPA Atlantic Ecology Division. Narragansett, RI Dec 2014. 0 3. Fuller, P., I. Gonzalez, and **J. W. Hollister** (2014). Software Carpentry Bootcamp. Co-hosted with J. Swift and P. V. August. Co-taught with P. Fuller and I. Gonzalez. University of Rhode Island Coastal Institute. Narragansett, RI. January 2014.

2. Morzillo, A. T. and **J. W. Hollister** (2007). Job Hunting Experiences of Recent Graduates in Landscape Ecology. (2007). US Chapter of the International Association for Landscape Ecology Annual Meeting, Tucson, AZ.

1. **Hollister, J. W.,** J. F. Paul. (2006). Conditional Probability Analysis: Demonstration using R and R-Excel. Workshop for Developing Suspended and Bedded Sediment Water Quality Criteria, Arlington, VA.

R Packages (date of current release):

7. **Hollister, J. W.**, D. Q. Kellogg, Q. Lei-Parent. (2023). nsink: Flow path nitrogen removal estimation. Current Version 2.0.0, 3rd release.https://usepa.github.io/nsink.

6. **Hollister, J. W.** and J. Stachelek (2023). lakemorpho: Lake Morphometry in R. Current Version 1.3.2, 8th release. https://cran.r-project.org/package=lakemorpho.

5. **Hollister, J. W.** and T. Shah. (2023). elevatr: Access Elevation Data from Various APIs. Current Version 0.99.0, 14th release. https://cran.r-project.org/package=elevatr.

4. Chamberlain, S, and **J. W. Hollister** (2021). lawn: R Client for turf.js for Geospatial Analysis. Version 0.6.0, 9th release. Archived. https://cran.r-project.org/package=lawn

3. **Hollister, J. W.** (2021). dadjokeapi: Return a Random Dad Joke. Version 1.0.2. https://cran.r-project.org/package=dadjokeapi.

2. **Hollister, J. W.** (2018). quickmapr: Quickly Map and Explore Spatial Data. Current Version 0.3.0, 3rd release, Archived. https://cran.r-project.org/package=quickmapr.

1. **Hollister, J. W.** (2014). manuscriptPackage: Template Package For Creating Manuscripts within an R Package. Version 0.1. https://github.com/jhollist/manuscriptPackage.

Mentorship

- Jake Stankoski (Oct 2022 - Present)
- Sophie Fournier (Aug 2018 - Aug 2022)
- Stephen Shivers (Jan 2017- Dec 2020)
- Farnaz Nojavan (Aug 2014 - Dec 2017, Jan 2019 - May 2019)