

Full CV

Todd Robert Lookingbill

University of Richmond
Geography and the Environment
tlooking@richmond.edu
(804) 289-8265

I. EDUCATION

- 1995 B.A., Princeton University, Princeton, New Jersey (Ecology and Evolutionary Biology)
2003 Ph.D., Duke University, Durham, North Carolina (Nicholas School of the Environment and Earth Science)

II. PROFESSIONAL BACKGROUND

- 2015-present Associate Professor, Department of Geography and the Environment, University of Richmond, Richmond, Virginia (joint appointment in Biology)
2015-2017 Chair, Department of Geography and the Environment, University of Richmond, Richmond, Virginia
2009-2015 Assistant Professor, Department of Geography and the Environment, University of Richmond, Richmond, Virginia (joint appointment in Biology)
2005-2009 Research Assistant Professor, Appalachian Laboratory, University of Maryland Center for Environmental Science, Frostburg, Maryland
2004-2005 Postdoctoral Researcher, Appalachian Laboratory, University of Maryland Center for Environmental Science, Frostburg, Maryland
2003-2004 Lecturer, Department of Geography, University of North Carolina, Chapel Hill, North Carolina
1998-2003 Research and Teaching Assistant, Landscape Ecology Laboratory, Duke University, Durham, North Carolina
1995-1998 Research Associate, Industrial Economics Environmental Consulting, Cambridge, Massachusetts
1995 Teacher, EIKEN School for English, Tokyo, Japan

III. RESEARCH

A. Areas of Professional Expertise

Land use change; landscape connectivity; habitat modeling with a focus on climate change and invasive species; watershed assessment; protected areas design, management, and monitoring.

B. Publications

1. Journal Articles (35)

- Lookingbill, T. & M. Zavala. 2000. Spatial pattern of *Quercus ilex* and *Quercus pubescens* recruitment in *Pinus halepensis* dominated woodlands. *Journal of Vegetation Science* 11:607-612. [doi: 10.2307/3246590](https://doi.org/10.2307/3246590)
- Urban, D., S. Goslee, K. Pierce, & T. Lookingbill. 2002. Extending community ecology to landscapes. *Ecoscience* 9:200-212.

- Lookingbill, T. & D. Urban. 2003. Spatial estimation of air temperature differences for landscape-scale studies in montane environments. *Agricultural and Forest Meteorology* 114:141-151. [doi: 10.1016/S0168-1923\(02\)00196-X](https://doi.org/10.1016/S0168-1923(02)00196-X)
- Lookingbill, T. & D. Urban. 2004. An empirical approach towards improved spatial estimates of soil moisture for vegetation analysis. *Landscape Ecology* 19:417-433. [doi: 10.1023/B:LAND.0000030451.29571.8b](https://doi.org/10.1023/B:LAND.0000030451.29571.8b)
- Lookingbill, T., N. Goldenberg, & B. Williams. 2004. Understory plants as soil moisture indicators in Oregon's Western Cascades old-growth forests. *Northwest Science* 78:214-224.
- Pierce, K., T. Lookingbill, & D. Urban. 2005. Beyond slope and aspect: a simple method for obtaining estimates of radiation for vegetation analysis. *Landscape Ecology* 20:137-147. [doi: 10.1007/s10980-004-1296-6](https://doi.org/10.1007/s10980-004-1296-6)
- Lookingbill, T. & D. Urban. 2005. Gradient analysis, the next generation: Towards more plant-relevant explanatory variables. *Canadian Journal of Forest Research* 35:1744-1753. [doi: 10.1139/X05-109](https://doi.org/10.1139/X05-109)
- Dennison, W., T. Lookingbill, T. Carruthers, J. Hawkey & S. Carter. 2007. An eye opening approach to integrated environmental assessments. *Frontiers in Ecology and the Environment* 5:307-314. [doi:10.1890/1540-9295](https://doi.org/10.1890/1540-9295)
- Carter, S., G. Mora-Bourgeois, T. Lookingbill, T. Carruthers & W. Dennison. 2007. The challenge of communicating monitoring results to effect change. *George Wright Forum* 24:48-58. www.georgewright.org/242carter1.pdf
- Ferrari, J., T. Lookingbill & M. Neel. 2007. Two measures of landscape-graph connectivity: assessment across gradients in area and configuration. *Landscape Ecology* 22:1315-1323. [doi:10.1007/s10980-007-9121-7](https://doi.org/10.1007/s10980-007-9121-7)
- Lookingbill, T., R. Gardner, P. Townsend & S. Carter. 2007. Conceptual models as hypotheses in monitoring urban landscapes. *Environ Management* 40:171-182. [doi:10.1007/s00267-005-0246-7](https://doi.org/10.1007/s00267-005-0246-7)
- Hopfensperger, K., C. Soykan, & T. Lookingbill. 2008. The quest for an ecological post-doc. *Frontiers in Ecology and the Environment* 6:49-50. [doi:10.1890/1540-9295](https://doi.org/10.1890/1540-9295)
- Lookingbill, T., S. Carter, B. Gorsira & C. Kingdon. 2008. Using landscape analysis to evaluate ecologic impacts of battlefield restoration. *ParkScience* 25:60-65. www.nature.nps.gov/ParkScience/index.cfm?ArticleID=217
- Gardner, R., T. Lookingbill, P. Townsend, & J. Ferrari. 2008. A general approach for rescaling land cover data. *Landscape Ecology* 25:513-526. [doi:10.1007/s10980-008-9213-z](https://doi.org/10.1007/s10980-008-9213-z)
- Vogt, P., J. Ferrari, T. Lookingbill, R. Gardner, K. Riitters, & K. Ostapowicz. 2009. Mapping functional connectivity. *Ecological Indicators* 9:64-71. [doi: 10.1016/j.ecolind.2008.01.011](https://doi.org/10.1016/j.ecolind.2008.01.011)
- Townsend, P., T. Lookingbill, C. Kingdon, & R. Gardner. 2009. Spatial pattern analysis for monitoring protected areas. *Remote Sensing of Environment* 113:1410-1420 [doi:10.1016/j.rse.2008.05.023](https://doi.org/10.1016/j.rse.2008.05.023)
- Ferrari, J., & T. Lookingbill. 2009. Initial conditions and their effect on invasion velocity across heterogeneous landscapes. *Biological Invasions* 11:1247-1258 [doi:10.1007/s10530-008-9330-2](https://doi.org/10.1007/s10530-008-9330-2)
- Minor, E., S. Tessel, K. Engelhardt, & T. Lookingbill. 2009. The role of landscape connectivity in assembling exotic plant communities. *Ecology* 90:1802-1809 [doi:10.1890/08-1015.1](https://doi.org/10.1890/08-1015.1)

- Ferrari, J., T. Lookingbill, B. McCormick, P. Townsend & K. Eshleman. 2009. Surface mining and reclamation effects on flood response of watersheds in the Central Appalachian Plateau region. *Water Resources Research* 45, W04407 [doi:10.1029/2008WR007109](https://doi.org/10.1029/2008WR007109)
- Lookingbill, T., S. Kaushal, A. Elmore, R. Gardner, K. Eshleman, R. Hilderbrand, R. Morgan, W. Boynton, M. Palmer, & W. Dennison. 2009. Altered ecological flows blur boundaries in urbanizing watersheds. *Ecology and Society* 14: 10 www.ecologyandsociety.org/vol14/iss2/art10/
- Hopfensperger, K., K. Engelhardt, & T. Lookingbill. 2009. Vegetation and seed bank dynamics in a tidal freshwater marsh. *Journal of Vegetation Science*. 20: 767-778 [doi:10.1111/j.1654-1103.2009.01083](https://doi.org/10.1111/j.1654-1103.2009.01083)
- Lookingbill, T., R. Gardner, J. Ferrari, & C. Keller. 2010. Combining a dispersal model with network theory to assess habitat connectivity. *Ecological Applications* 22:427-441 [doi:10.1890/09-0073.1](https://doi.org/10.1890/09-0073.1)
- Lookingbill, T., A. Elmore, K. Engelhardt, J. Churchill, J. Gates, & J. Johnson. 2010. Influence of wetland networks on bat activity in mixed-use landscapes. *Biological Conservation* 143:974-983 [doi:10.1016/j.biocon.2010.01.011](https://doi.org/10.1016/j.biocon.2010.01.011)
- Minor, E. & T. Lookingbill. 2010. A multiscale network analysis of protected-area connectivity for mammals in the United States. *Conservation Biology* 24:1549-1558 [doi:10.1111/j.1523-1739.2010.01558.x](https://doi.org/10.1111/j.1523-1739.2010.01558.x)
- Suarez-Rubio, M., T. Lookingbill, & L. Wainger. 2012. Modeling exurban development near Washington, DC, USA: Comparison of a pattern-based model and a spatially-explicit econometric model. *Landscape Ecology* 27:1045-1061 [doi:10.1007/s10980-012-9760-1](https://doi.org/10.1007/s10980-012-9760-1)
- Carruthers, T., S. Carter, T. Lookingbill, L. Florkowski, J. Hawkey, & W. Dennison. 2012. A habitat-based framework for communicating natural resource condition. *ISRN Ecology* vol. 2012, Article ID 384892, [doi:10.5402/2012/384892](https://doi.org/10.5402/2012/384892)
- Suarez-Rubio, M., T. Lookingbill, & A. Elmore. 2012. Exurban development derived from Landsat from 1986 to 2009 surrounding the District of Columbia, USA. *Remote Sensing of Environment*. 124:360-370 [doi:10.1016/j.rse.2012.03.029](https://doi.org/10.1016/j.rse.2012.03.029)
- Brickle, M., T. Lookingbill, & K. Engelhardt. 2013. Proposing new barrens National Natural Landmarks. *George Wright Forum* 30:253–260 www.georgewright.org/303brickle.pdf
- Suarez-Rubio, M., S. Wilson, P. Leimgruber, & T. Lookingbill. 2013. Threshold responses of forest birds to landscape changes around exurban development. *PLoS One* 8(6): e67593 [doi:10.1371/journal.pone.0067593](https://doi.org/10.1371/journal.pone.0067593)
- Lookingbill, T., J. Schmit, S. Tessel, M. Suarez-Rubio, & R. Hilderbrand. 2014. Assessing national park resource condition along an urban-rural gradient in and around Washington, D.C., USA. *Ecological Indicators* 42:147-159 [doi:10.1016/j.ecolind.2013.12.025](https://doi.org/10.1016/j.ecolind.2013.12.025)
- Lookingbill, T., E. Minor, N. Bukach, J. Ferrari, & L. Wainger. 2014. Incorporating risk of reinvasion to prioritize sites for invasive species management. *Natural Areas Journal* 34:268-281 [doi:10.3375/043.034.0303](https://doi.org/10.3375/043.034.0303)
- Courtenay, C., & T. Lookingbill. 2014. Designing a regional trail network of high conservation value using principles of green infrastructure. *Southeastern Geographer* 54:270-290 [doi:10.1353/sgo.2014.0023](https://doi.org/10.1353/sgo.2014.0023)

Kostadinov, T. S. & T. Lookingbill. 2015. Snow cover variability in a forest ecotone of the Oregon Cascades via MODIS Terra products. *Remote Sensing of Environment*. 164:155-169
[doi:10.1016/j.rse.2015.04.002](https://doi.org/10.1016/j.rse.2015.04.002)

Jawarneh, R., J. Julian, & T. Lookingbill. 2015. The influence of physiography on historical and future land development changes: A case study of central Arkansas (USA), 1857-2030. *Landscape and Urban Planning* 143:76-89 [doi:10.1016/j.landurbplan.2015.06.010](https://doi.org/10.1016/j.landurbplan.2015.06.010)

Suarez-Rubio, M. & T. Lookingbill. 2016. Forest birds respond to the spatial pattern of exurban development in the Mid-Atlantic region, USA. *PeerJ* 4:e2039 doi.org/10.7717/peerj.2039

2. Book Chapters (7)

Lookingbill, T., T. Carruthers, J. Testa, W. Nuttle, & G. Shenk. 2010. Environmental models: Providing synthesis, analysis, simulation, and prediction. Pages 133-148 in *Integrating and Applying Science: A Handbook for Effective Coastal Ecosystem Assessment*. IAN Press, Cambridge, Maryland.

Lookingbill, T., G. Sanders, S. Carter, B. Best, B. Longstaff, & J. Hawkey. 2010. Program design: Developing a comprehensive data strategy. Pages 167-186 in *Integrating and Applying Science: A Handbook for Effective Coastal Ecosystem Assessment*. IAN Press, Cambridge, Maryland.

Lookingbill, T., Rocca, M. & D. Urban. 2011. Focused assessment of scale-dependent vegetation pattern. Pages 111-138 in A. Drew, Y. Wiersma, and F. Huettmann, eds. *Predictive Species and Habitat Modeling in Landscape Ecology*. Springer Press, New York.

Lookingbill, T., J. Schmit, & S. Carter. 2012. GRTS and graphs: Monitoring natural resources in urban landscapes. Pages 361-380 in R. Gitzen, J. Millsbaugh, A. Cooper, and D. Licht, eds. *Design and Analysis of Long-term Ecological Monitoring Studies*. Cambridge University Press, Cambridge, UK.

Lookingbill, T., R.H. Gardner, L.A. Wainger, C.L. Tague, & M. Suarez-Rubio. 2013. Landscape modeling, [*Reference Modules in Earth Systems and Environmental Sciences*](#), Elsevier, ISBN: 9780124095489

Lookingbill, T. & K. Browne. 2016. Biodiversity and carbon content of trees on a university campus. Chapter 14 in D. Cowen, ed. [*STEM and GIS in Higher Education*](#), ESRI Press, ISBN: 9781589484481¹¹⁷_{SEP}

Lookingbill, T. & E. Minor. 2016. Assessing multi-scale landscape connectivity using network analysis. Chapter 12 in S. Gergel & M. Turner, eds. [*Learning Landscape Ecology: A Practical Guide to Concepts and Techniques*](#), Springer-Verlag, ISBN: 9781493963720¹¹⁷_{SEP}

3. Books (2)

Longstaff, B., T. Carruthers, W. Dennison, T. Lookingbill, J. Hawkey, J. Thomas, E. Wicks, & J. Woerner (eds). 2010. *Integrating and Applying Science: A Handbook for Effective Coastal Ecosystem Assessment*. IAN Press, Cambridge, Maryland. 236 pp.

Lookingbill, T. & P. Smallwood (eds). 2019. *Collateral Values: The Natural Capital Created by Landscapes of War*. Springer Landscape Series, New York.

4. Technical Reports (20)

- Donlan, M., M. Huguenin, M. Curry, T. Lookingbill, J. Michel, & D. French. 1996. Draft Restoration Plan and Environmental Assessment for the January 19, 1996 North Cape Oil Spill. Prepared for NOAA.
- Ruder, E., E. Toy, & T. Lookingbill. 1997. Toward a Method for Quantifying Human Non-Cancer Health Risks: Risk of Superfund-Related Exposures and Potential Risk Reduction Benefits of Site Remediation. Prepared for U.S. EPA.
- Gardner et al. 2004. Land Use and Habitat Alteration: Report from a NEON Science Workshop. Report for American Institute of Biological Sciences.
- Lookingbill, T. 2005. Conceptual Ecological Models. Chapter 2 in Monitoring Plan: National Capital Region Network of the National Park Service. Prepared for Inventory & Monitoring Program, National Park Service.
- Dennison, W., T. Lookingbill, T. Carruthers, J. Hawkey, S. Carter, & G. Mora-Bourgeois. 2005. Creating a Framework for Reporting Ecological Conditions: National Capital Region Network of the National Park Service. Prepared for Inventory & Monitoring Program, National Park Service.
- Townsend, P.A., R.H. Gardner, T.R. Lookingbill, & C.C. Kingdon. 2006. Remote Sensing and Landscape Pattern Protocols for Long-term Monitoring of Parks in the National Capital Region. Prepared for Inventory & Monitoring Program, National Park Service.
- Carter, S., T. Lookingbill, J. Hawkey, T. Carruthers, & W.C. Dennison. 2006. A Conceptual Basis for Natural Resource Monitoring. Prepared for Inventory & Monitoring Program, National Park Service.
- Tessel, S., Lookingbill, T., K. Engelhardt, A. Elmore, & J. Churchill. 2007. Enhanced Wetland Inventory For Harpers Ferry National Historical Park. Prepared for Harpers Ferry National Historical Park, National Park Service.
- Lookingbill, T., K. Engelhardt, L. Florkowski, J. Churchill, & L. Ashley. 2008. Evaluation of the Nottingham Park, PA Serpentine Barrens for its Merit in Meeting National Significance Criteria as a National Natural Landmark. Prepared for National Natural Landmark Program, National Park Service.
- Engelhardt, K., T. Lookingbill, & J. Mayfield. 2011. Evaluation of the Ice Mountain, WV Cold-Air Producing Talus Slope for its Merit in Meeting National Significance Criteria as a National Natural Landmark. Prepared for National Natural Landmark Program, National Park Service, Gettysburg, PA.
- Lookingbill, T., C. Bentsen, T. Carruthers, S. Constanzo, C. Doherty, S. Lucier, J. Madron, E. Poppell, & T. Saxby. 2012. Colonial National Historical Park Natural Resource Condition Assessment: Virginia. Prepared for Natural Resources Condition Assessment Program, NPS. Natural Resource Report. NPS/COLO/NRR—2012/544. National Park Service, Fort Collins, CO.
- Lookingbill, T., M. Brickle, & K. Engelhardt. 2013. Evaluation of Albany Pine Bush, NY Sand Dunes for its Merit in Meeting National Significance Criteria as a National Natural Landmark. Prepared for National Natural Landmark Program, National Park Service, Boston, MA.
- Lookingbill, T., & A. Elmore. 2013. Protecting terrestrial habitat and wildlife. In Recommended Best Management Practices for Marcellus Shale Gas Development in Maryland. Eshleman, K. & A. Elmore (eds). Prepared for Maryland Department of the Environment. Baltimore, MD.
- Lookingbill, T., B. Miller, J. Madron, J. Finn, & A. Valenski. 2013. Petersburg National Battlefield Natural Resource Condition Assessment: Virginia. Prepared for Natural Resources Condition Assessment Program, NPS. Natural Resource Report. NPS/PETE/NRR—2013/704. National Park Service, Fort Collins, CO.

- Lookingbill, T., N. Somerville, C. Sibia, D. Kitchen & K. Engelhardt. 2016. Evaluation of Bear Rocks, WV Plateau for its Merit in Meeting National Significance Criteria as a National Natural Landmark. Prepared for National Natural Landmark Program, National Park Service, Gettysburg, PA.
- Lookingbill, T. 2017. Analysis of Potential Fragmentation Impacts of the Atlantic Coast Pipeline Proposed Route: Buckingham, Nelson, Augusta, Bath, and Highland Counties in Virginia and Randolph and Pocahontas Counties in West Virginia. Prepared for Southern Environmental Law Center, Charlottesville, VA.
- Costanzo, S., T. Lookingbill, B. Walsh, A. Fries, S. Spitzer, J. Hawkey, V. Vargas, B. Webb, S. Easby, C. Goelst, & M. Rouch. 2017. Natural Resource Condition Assessment for Shenandoah National Park. Prepared for Natural Resources Condition Assessment Program, NPS. Natural Resource Report. NPS/SHEN/NRR—2017/1429. National Park Service, Fort Collins, CO.
- Lookingbill, T., H. Courtenay, J. Finn, R. Gifford, N. Hatchel, M. Mulroy, A. Pericak & M. Rouch. 2017. Booker T. Washington National Monument Natural Resource Condition Assessment: Virginia. Natural Resource Report NPS/BOWA/NRR—2017/1558. National Park Service, Fort Collins, Colorado.
- Lookingbill, T., K. Engelhardt, C. Geraghty, N. Hatchel, & D. Kitchen. 2018. Fort Monroe National Monument Natural Resource Condition Assessment. Natural Resource Report NPS/FOMR/NRR—2018/1604. National Park Service, Fort Collins, Colorado.
- Engelhardt, K., T. Lookingbill, N. Bukach, M. Latimer, K. Ratliff, R. Gifford, J. Baek, O. Hurlbert, A. Rizzo, & B. Walsh. 2018. Harriet Tubman Underground Railroad National Historical Park Natural Resource Condition Assessment. Natural Resource Report NPS/HATU/NRR—2018. National Park Service, Fort Collins, Colorado. 169 pp.

5. Published Conference Proceedings (3)

- Florkowski, L.N, W.C. Dennison, T.R. Lookingbill, T.J.B. Carruthers, J.M. Hawkey, & S.L. Carter. 2008. Developing integrated assessments for National Capital Region Network Parks: An example from Rock Creek Park. Pages 62-67 in Weber, S. & D. Harmon, eds. Rethinking Protected Areas in a Changing World: Proceedings of the 2007 GWS Biennial Conference on Parks, Protected Areas, and Cultural Sites. The George Wright Society, Hancock, Michigan.
- Lookingbill, T., K. Engelhardt, A. Elmore, S. Tessel, & J. Churchill. 2010. Wetland networks in National Capital Region Parks: Enhanced inventory for Harpers Ferry National Historical Park. Pages 297-304 in Weber, S. (ed.) Rethinking Protected Areas in a Changing World: Proceedings of the 2009 GWS Biennial Conference on Parks, Protected Areas, and Cultural Sites. George Wright Society, Hancock, Michigan.
- Brickle, M., Lookingbill, T., & K. Engelhardt. 2014. Proposing New Barrens National Natural Landmarks. Pages 17-23 in Weber, S. (ed.) Protected Areas in a Changing World: Proceedings of the 2013 George Wright Society Conference on Parks, Protected Areas, and Cultural Sites. George Wright Society, Hancock, Michigan.

6. Conference Presentations (64)

- Lookingbill, T.R. & D.L. Urban. 2000. Analysis of input parameters for a landscape model of the Pacific Northwest: growth rates, establishment, and temperature. Annual Meeting of the U.S. Chapter of the International Association for Landscape Ecology, Ft. Lauderdale, FL.

- Lookingbill, T.R., K.B. Pierce & D.L. Urban. 2001. Temperature in montane systems: testing DEM-derived proxies with field data. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Tempe, AZ.
- Pierce, K.B., T.R. Lookingbill, & D.L. Urban. 2001. An assessment of proximate climate variables and their relative impact on vegetation patterns in montane systems. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Tempe, AZ.
- Lookingbill, T.R., K.B. Pierce & D.L. Urban. 2001. A cross-site comparative study of physical correlates with community transition. Annual Meeting of the Ecological Society of America, Madison, WI.
- Pierce, K.B., T.R. Lookingbill, & D.L. Urban. 2001. Multi-scale correlates of woody regeneration in the Sierra Nevada of California. Annual Meeting of the Ecological Society of America, Madison, WI.
- Lookingbill, T.R. & D.L. Urban. 2002. Soil moisture as a multi-scale predictor of forest community pattern. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Lincoln, NE.
- Lookingbill, T.R. & D.L. Urban. 2003. A focused approach to studying forest community spatial transitions. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Banff, Alberta, Canada.
- Lookingbill, T.R., R. H. Gardner, P.A. Townsend, & S.L. Carter. 2005. Conceptual models as a tool for monitoring urban landscapes. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Syracuse, NY.
- Lookingbill, T.R. & D.L. Urban. 2005. Gradient analysis, the next generation: Towards more plant-relevant explanatory variables. Annual Meeting of the Association of American Geographers, Denver, CO.
- Lookingbill, T.R., R.H. Gardner, P.A. Townsend, & C. Kingdon. 2006. Infusing connectivity theory into conservation practice. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, San Diego, CA.
- Harsch, M.A., P.A. Townsend, T.R. Lookingbill, & W. Yoder. 2006. Effects of windfall on decomposition and invertebrate community structure across two physiographic provinces. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, San Diego, CA.
- Lookingbill, T.R., S.L. Carter, J.P. Schmit & J. Ferrari. 2006. A multi-staged approach to defining monitoring targets in a fragmented urban landscape. Annual Meeting of the Ecological Society of America, Memphis, TN.
- Schmit, J.P., T.R. Lookingbill & S.L. Carter. 2007. Monitoring forest vegetation at local and landscape scales. Biennial Meeting of the George Wright Society Conference, St. Paul, MN.
- Florkowski, L.N., W.C. Dennison, T.R. Lookingbill, T.J.B. Carruthers, J.M. Hawkey & S.L. Carter. 2007. Developing integrated assessments for National Capital Region Network Parks: An example from Rock Creek Park. Biennial Meeting of the George Wright Society Conference, St. Paul, MN.
- Lookingbill, T.R. & M.E. Rocca. 2007. Focused assessment of scale-dependent vegetation pattern. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Tucson, AZ.
- Ferrari, J.R., M.C. Neel & T.R. Lookingbill. 2007. Graph analysis of connectivity across gradients in habitat proportion in the Mid-Atlantic region of the United States. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Tucson, AZ.

- Gardner, R.H., T.R. Lookingbill, P.A. Townsend & J.R. Ferrari. 2007. A general method for analysis of multiple resolution landscape imagery. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Tucson, AZ.
- Vogt, P., R.H. Gardner, T.R. Lookingbill, J. Ferrari & K.H. Riitters. 2007. Assessing structural and functional connectivity with mathematical morphology. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Tucson, AZ.
- Lookingbill, T.R., R.H. Gardner & J.R. Ferrari. 2007. Dispersal and connectivity metamodeling. Annual Meeting of the Ecological Society of America, San Jose, CA.
- Minor, E.S., K.A.M. Engelhardt, & T.R. Lookingbill. 2007. Using graph theory to identify patterns of exotic plant invasions in fragmented landscapes. Annual Meeting of the Ecological Society of America, San Jose, CA.
- Ferrari, J. & T.R. Lookingbill. 2008. Coupling graph-theoretic and cellular automaton models for simulating disease spread in fragmented forests. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Madison, WI.
- Lookingbill, T.R., E.S. Minor, R.H. Gardner, & J. Ferrari. 2008. Spread of exotic species in fragmented forests. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Madison, WI.
- Ferrari, J.R., T.R. Lookingbill, B. McCormick, P.A. Townsend, & K.N. Eshleman. 2008. Surface mining and reclamation effects on flood response of forested watersheds in the Central Appalachian Plateau. *Eos Trans. AGU*, 89(23), Joint Assembly, Fort Lauderdale, FL.
- Minor, E.S. & T.R. Lookingbill. 2008. Connectivity of protected area networks in the contiguous United States. Annual Meeting of the Ecological Society of America, Milwaukee, CA.
- Lookingbill, T.R., J. Julian, A.J. Elmore & R.H. Gardner. 2008. Blurring boundaries: Ecosystem consequences of landscape change in the Potomac River watershed. 2008. Annual Meeting of the Association of American Geographers, Boston, MA.
- Lookingbill, T.R., W.C. Dennison, T.J.B. Carruthers & S.L. Carter. 2009. Crossing boundaries in urban park monitoring. 2009. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Snowbird, UT.
- Suárez-Rubio, M., T.R. Lookingbill, & J.R. Ferrari. 2010. Evaluation of the susceptibility of the Maryland Green Infrastructure to forecasted patterns of land use change. Chesapeake Modeling Symposium, Annapolis, MD.
- Suárez-Rubio, M., T.R. Lookingbill, & A.J. Elmore. 2010. Mapping exurban development using Landsat Imagery. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Athens, GA.
- Bukach, N., T.R. Lookingbill, E.S. Minor & L. Wainger. 2010. A GIS-based model of exotic invasive plant restorability in National Capital Region Parks. *Spotlight on National Park Resources: National Capital Region*, Frederick, MD.
- Sebasky, M. C., Wu, & T.R. Lookingbill. 2010. Predictive habitat modeling of the mountain monkeyflower, *Mimulus tilingii*. Annual Meeting of Evolution, Portland, OR.

- Lookingbill, T.R., J.R. Ferrari, & K.L. Eshleman. 2010. Landscape modeling of hydrological response to surface mining and reclamation. Annual Meeting of the Association of American Geographers Meeting, Washington D.C.
- Courtenay, C. & T.R. Lookingbill. 2011. A standardized and interconnected approach to Green Infrastructure development in Virginia and surrounding states using Morphological Image Processing. Annual Meeting of the Association of American Geographers, Seattle, WA.
- Suárez-Rubio, M., T.R. Lookingbill & L.A. Wainger. 2011. Modeling exurban development: comparison of a pattern-based model and a spatially explicit econometric model. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Portland, OR.
- Lookingbill, T.R., E.S. Minor, J.R. Ferrari, & L.A. Wainger 2011. Using risk of reinvasion to prioritize invasive plant species management. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Portland, OR.
- Courtenay, C. & T.R. Lookingbill. 2011. A cohesive, multi-scale green infrastructure plan for Virginia. 2011. Lead presentation by Carroll Courtenay. Virginia GIS User's Group Conference, Glen Allen, VA.
- Poppell, E., B. Ward, C. Bentsen & T.R. Lookingbill. 2011. Assessment of natural resource conditions for Colonial National Historical Park. Annual Meeting of the Southeast Division of the Association of American Geographers, Savannah, GA.
- Strickler, E., A. Pericak, T. Kostadinov & T.R. Lookingbill. 2012. Using western hemlock regeneration to explore potential climate responses in old-growth forests of the Pacific Northwest. Annual Meeting of the Association of American Geographers, New York, NY.
- Lookingbill, T.R. 2012. Crunch time: Comparing natural resource condition among Mid-Atlantic National Parks. Annual Meeting of the Association of American Geographers, New York, NY.
- Lookingbill, T.R. & C. Courtenay. 2012. Green Infrastructure Based Planning for the James River Heritage Trail. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Newport, RI.
- Kostadinov, T. & T. Lookingbill. 2012. Decadal Snowpack Trends in Hemlock-Fir Ecotone Areas of the Oregon Western Cascades using MODIS Snow Cover Products. MtnClim Biennial Mountain-Climate Conference, Estes Park, CO.
- Miller, B., J. Madron & T. Lookingbill. 2012. Assessment of Natural Resource Conditions: Petersburg National Battlefield Park. Annual Natural Areas Conference, Norfolk, VA.
- Lookingbill, T.R. 2012. GIS-based Assessment of Landscape Dynamics for Management of National Battlefields. Southeast Division of the Association of American Geographers Annual Meeting, Asheville, NC.
- Holden, T., J. Remmes, T. Lookingbill, & T. Kostadinov. 2012. Diversity and Carbon Content of Richmond Campus Trees. Southeast Division of the Association of American Geographers Annual Meeting. Asheville, NC.
- Suarez-Rubio, M. & T. Lookingbill. 2013. Effects of Rural Housing Growth on Forest Birds' Habitat. Ecological Society of America, Minneapolis, MN.
- Valenski, A., S. Dawson, M. Outland, & T. Lookingbill. 2013. Sustainable James River Project. Sigma Xi Student Showcase. Online.

- Lookingbill, T.R., T. Kostadinov, C. Phelan, & E. Strickler. 2013. Downslope Migration of the Western Hemlock Regeneration Niche in Response to Decadal Snow Patterns in the Western Cascades. Annual Meeting of the Association of American Geographers, Los Angeles, CA.
- Brickle, M., T. Lookingbill, & K. Engelhardt. 2013. Proposing the Albany Pine Bush Preserve as a National Natural Landmark. George Wright Society Conference on Parks, Protected Areas, and Cultural Sites, Denver, CO.
- Suarez-Rubio, M. & T. Lookingbill. 2013. Forest Birds' Response to Residential Development beyond the Urban Fringe. 1st Congress of the Society for Urban Ecology, Berlin, Germany.
- Lookingbill, T. 2013. Assessing National Park condition in and around Washington D.C. 1st Congress of the Society for Urban Ecology, Berlin, Germany.
- Holder, T., A. Kelso, A. Pericak, T. Lookingbill, K. Klinker, and J. Allenby. 2014. Identifying Sediment and Nutrient Hotspots in the Chesapeake Bay Watershed using ENVI and Object-based Classification. Annual Meeting of the Association of American Geographers, Tampa, FL.
- Lookingbill, T. & T. Kostadinov. 2014. Decadal Snow Cover Variability in the Hemlock-Fir Ecotone of the Western Oregon Cascades. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Anchorage, AK
- Valenski, A., A. Litteral, and T. Lookingbill. 2014. A Calculation of the James River Watershed's Water-Footprint. Mid-Atlantic Regional Water Conference, Shepherdstown, WV
- Lookingbill, T. 2015. Community-based planning for conservation and recreation in the James River Watershed. World Congress of the International Association of Landscape Ecologists, Portland, OR.
- Christmas, S., J. Goldbach Ehmer, M. Parker, K. Browne, and T. Lookingbill. 2015. Assessment of Land Parcels for Conservation Planning in the Richmond Metropolitan Region. Virginia GIS User's Group Conference, Glen Allen, VA
- Christmas, S., J. Goldbach Ehmer, M. Parker, K. Browne, and T. Lookingbill. 2016. Assessment of Land Parcels for Conservation Planning in the Richmond Metropolitan Region. Association of American Geographers Conference, San Francisco, CA
- Lookingbill, T. 2016. Battlefield landscapes and the ecosystem services they provide. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Asheville, NC.
- Sibilia, C., G. Carter, and T. Lookingbill. 2017. Constructive conservation of historic battlefields. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Baltimore, VA
- Geraghty, C., T. Lookingbill, and K. Engelhardt. 2017. Loss of wetlands in a Chesapeake Bay salt marsh. Annual Meeting of the U.S. Chapter of the International Association of Landscape Ecology, Baltimore, VA
- Lookingbill, T., T. Holmes, and K. Allen. 2018. Community-engaged science and art: Richmond National Battlefield Bioblitz. Southeast Regional CESU Rally: Collaboration and Cooperation in Protecting Ecosystems, Raleigh, NC
- Lookingbill, T. 2018. Trajectories of change for Civil War Battlefield Parks in Richmond, VA. Association of American Geographers Conference, New Orleans, LA
- Hoffman, J, E. Maurakis, V. Shandas, J. Voelkel, J. Salamy, T. Lookingbill, A. Zatzoff, K. Norrell, G. Harnsberger, and S. Fong. 2018. Assessing and communicating the Richmond, VA area urban heat

- island effect to the public and policymakers. Virginia Academy of Sciences Annual Meeting, Longwood, VA.
- Lookingbill, T., T. Holmes, and K. Allen. 2018. Community-engaged science and art: Richmond National Battlefield Bioblitz. U.S. Chapter of the International Association of Landscape Ecology, Chicago, IL.
- Grayson, K., T. Lookingbill, A. Davidson, L. Thompson, E. Betts, A. Wright, N. Bukach, and J. Vonesh. 2018. Using rock pool communities for collaborative course-based research experiences in biodiversity and spatial ecology. Ecological Society of America, New Orleans, LA.
- Winkler, M., T. Lookingbill, K. Grayson, K. Browne, J. Scrivani, and J. Vonesh. 2018. Flooding frequency as a determinant of local diversity in rock pool communities of the James River, Virginia. Ecological Society of America, New Orleans, LA.

C. Awards

- 2013 Natural Resources Researcher of the Year, National Park Service, National Capital Region
- 2014 University of Richmond Sustainability Award
- 2014 Lynton Award Nominee for the Scholarship of Engagement for Early Career Faculty
- 2015 Best Article Award, Southeastern Division of the Association of American Geographers
- 2016 H. Hiter Harris Excellence in Teaching with Technology Award Nominee
- 2018 University of Richmond Sustainability Leadership Award
- 2018 University of Richmond Bonner Center Community-Engaged Scholarship Award
- 2018 University of Richmond Distinguished Educator Award
- 2019 University of Richmond International Education Award
- 2019 US-International Association of Landscape Ecologists Distinguished Service Award

Student Awards

- 2010 Andrew Pericak, Virginia Foundation for Independent Colleges Research Fellowship
- 2012 Taylor Holden, First Prize Undergraduate Research Competition, Southeast Division of the Association of American Geographers Annual Meeting
- 2013 Taylor Holden, Austen Kelso, & Andrew Pericak. Second Prize Student Poster Competition Virginia GIS User's Group Conference
- 2014 Celia Landesberg. First Prize Environmental/Sustainability Award, University of Richmond Arts & Sciences Student Research Symposium
- 2015 Shaquille Christmas, Jared Goldbach Ehmer & Marissa Parker. Second Prize Student Poster Competition, Virginia GIS User's Group Conference
- 2016 Tracy Tien, First Prize Environmental/Sustainability Award, University of Richmond Arts & Sciences Student Research Symposium
- 2017 Natalie Somerville, Third Prize Environmental/Sustainability Award, University of Richmond Arts & Sciences Student Research Symposium
- 2017 Carly Sibilias, James W. Jackson Award for Excellence in Library Research in the Social Sciences, University of Richmond
- 2018 Adeline Hadjosif, Third Prize Environmental/Sustainability Award, University of Richmond Arts & Sciences Student Research Symposium

D. External Grants/Contracts

1. Active (\$127,822)

Assessment of Natural Resource Condition, Fort Monroe National Monument and Harriet Tubman Underground Railroad National Historical Park. 2016-2018. \$85,000 (Principal Investigator).

Evaluating Potential National Natural Landmarks (NNL). National Park Service. 2014-2019. \$42,822 (Principal Investigator).

2. Termed (\$1,013,919)

Influence of water balance and seed dispersal on forest pattern in the Pacific Northwest: Implications of spatial scale. Sigma Xi Grant in Aid of Research. 2000. \$1,000 (Graduate Student Award).

Communities in transition: Study of shifting ecotones in the Pacific Northwest. National Science Foundation Dissertation Improvement Grant. 2001-2003. \$10,000 (Graduate Student Award).

Temperature in montane systems: Testing DEM-derived proxies with field data. NASA-MSU Professional Enhancement Award. 2001. \$600 (Graduate Student Award).

Development of an information navigation system for the National Capital Region Inventory and Monitoring Program. National Park Service I&M Program. 2005-2007. \$74,143 (Principal Investigator).

Enhanced wetland inventory for Harpers Ferry National Historical Park. National Park Service Harpers Ferry. 2007. \$14,975 (Principal Investigator).

Evaluating Nottingham Park Serpentine Barrens as a National Natural Landmark (NNL). National Park Service NNL Program. 2006-2008. \$12,970 (Principal Investigator).

National Parks Ecological Research Fellowship: Predicting invasions of bird-dispersed exotic plants. Ecological Society of America, Mellon Foundation. 2006-2008. \$128,000 (Co-Principal Investigator).

Connectivity monitoring proof of concept: Harpers Ferry National Historical Park. National Park Service I&M Program. 2007-2008. \$11,731 (Principal Investigator).

Evaluating the consequences of landscape change on dispersal success of forest-dwelling species. U.S. Forest Service Threat Assessment Center. 2006-2009. \$80,000 (Co-Principal Investigator).

Integrative scorecards for using NPS monitoring data to report park status and trends for National Capital Region Parks. National Park Service I&M Program. 2007-2009. \$80,000 (Principal Investigator).

Evaluating potential National Natural Landmarks (NNL). National Park Service NNL Program. 2007-2011. \$30,000 (Principal Investigator).

To weed or not to weed? An economic decision support tool for National Capital Region Parks. National Park Service. 2008-2011. \$310,000 (Co-Principal Investigator).

Assessment of Natural Resource Condition, Colonial National Historical Park in Virginia. National Park Service. 2009-2011. \$49,500 (Co-Principal Investigator).

Climate Change in Urban Landscapes. Andrew W. Mellon Foundation. 2011-2013. \$126,000 (Principal Investigator).

Assessment of Natural Resource Condition, Shenandoah National Park. National Park Service. 2012-2014. \$32,115 (Principle Investigator).

Assessment of Natural Resource Condition, Petersburg National Battlefield and Booker T. Washington National Monument. National Park Service. 2011-2016. \$85,000. (Principal Investigator).

E. Invited Seminars and Presentations (36)

H.J. Andrews LTER & Cascade Center for Ecosystem Management Seminar Series, Oregon State University. Deconstructing and reconstructing forest pattern at the *Abies amabilis*-*Tsuga heterophylla* ecotone. 2000.

Princeton University, Department of Ecology and Evolutionary Biology. Extending community ecology to landscapes. 2003.

Duke University, University Program in Ecology Seminar Series. Communities in transition: a multi-phased study of a forest community ecotone. 2003.

Lehman College, Department of Environmental, Geological and Geographic Sciences. Physical geography and global change. 2004.

University of North Carolina-Chapel Hill, Department of Geography. Vegetation change in the North Carolina Piedmont. 2004.

Center for Urban Ecology, National Park Service, Washington, DC. Integrative monitoring of urban landscapes. 2004.

University of Maryland Center for Environmental Science, Appalachian Laboratory Seminar Series. Ecohydrology at landscape scales. 2005.

University of Delaware, Department of Geography. Not all soil moisture models are created equal. 2005.

University of Maryland Center for Environmental Science, Appalachian Laboratory. Integrating landscape ecology into natural resource monitoring of urban parks. 2005.

National Park Service, Intermountain Region Inventory and Monitoring Network Workshop: Integrating Monitoring into Park Management, Tucson, AZ. Communicating monitoring results to multiple audiences. 2005.

Frostburg State University, Biology Department and Society for Conservation Biology Seminar Series. Infusing landscape connectivity theory into conservation practice. 2006.

Rock Creek Park, NPS National Capital Region Meeting of Natural Resource Managers, Washington, D.C. Remote sensing and landscape pattern protocols for long-term monitoring of parks in the National Capital Region. 2006.

National Conservation Training Center, NPS National Capital Region Showcase for Science, Shepherdstown, WV. The IAN-NCRN web project. 2006.

North American Network for Remote Sensing Park Ecological Condition, Santa Fe, New Mexico. Evaluating landscape connectivity in an Eastern US Network of Parks. 2007.

- University of Maryland College Park, Behavior, Ecology, Evolution and Systematics Seminar Series. Identifying key habitat patches and corridors for the recovery of the Delmarva fox squirrel. 2007.
- University of Maryland Center for Environmental Science, Horn Point Laboratory Seminar Series. It's a small world: Connectivity and conservation. 2008.
- Northern Eurasia Earth Science Partnership Initiative Science Team Regional Non-boreal Europe Meeting, Odessa, Ukraine. Hydrological impacts of mine reclamation in Carpathian and Appalachian Mountains. 2008.
- EPA Regional Science Workshop on Green Infrastructure: Linking People, Nature and Landscapes through Sound Science, Annapolis, Maryland. An eye opening approach to monitoring. 2009.
- Virginia Commonwealth University, Science, Technology and Society Program's E-Festival. Battlefields, biogeography, and bacon. 2009.
- MTNCLIM Mountain Climate Research Conference, Blue River, Oregon. Life on the edge: Monitoring forest community ecotones in a changing climate. 2010.
- University of Richmond, Howard Hughes Medical Institute Research Introductions Series. Biogeography and Landscape Ecology. 2010.
- National Capital Region Natural Resources and Science Planning Workshop, Shepherdstown, WV. Landscape Ecology in the National Capital Region. 2010.
- University of Richmond, Bonner Center for Civic Engagement Seminar Series. A river runs through it (almost): UR, Richmond, and the James. 2011.
- Virginia Commonwealth University, Biology Seminar Series. To weed or not to weed? Prioritizing invasive plant species management in national parks. 2011.
- University of Virginia, Mountain Lake Biological Station Seminar Series. Migrating ecotones in the H.J. Andrews Experimental Forest. 2011.
- Marine Biological Laboratory Seminar Series, Woods Hole, MA. Landscape analysis of Civil War Battlefield Parks. 2012.
- University of Richmond, Take 30 Seminar Series, UR Downtown. How can we better connect to the James River? 2014.
- University of Richmond, Biology Seminar Series. Big park, small park, green park, brown park: landscape connectivity and conservation in U.S. protected lands. 2014.
- The Shepherd's Center of Richmond. Creating a community of learning around the James. 2014.
- University of Richmond, Landscape and the Western Film Festival. Western landscapes: shifting baselines. 2015.
- University of Richmond, Bonner Center for Civic Engagement Seminar Series, Landscape analysis as art in the River City. 2015.
- University of Richmond, Alumni College Session. URiver: an exploration of our local watershed. 2015.
- Leadership Metro Richmond. The Falls of the James: an introduction and brief history. 2015.

The Shepherd's Center of Richmond. Collateral values: The natural capital created by landscapes of war. 2017.

Modlin Center Nile Project Panel: Music, Citizen Engagement & Water Resource Management. 2017.

University of Richmond Annual Science Symposium Panel: Communicating Science to the Public and its Impact on Federal Funding.

F. Symposia and Workshops Organized for Professional Meetings (5)

- 2006 U.S. Chapter International Association of Landscape Ecology Annual Meeting, Session on *Exploring Spatial Patterns in Ecological Connectivity*, San Diego, CA.
- 2008 U.S. Chapter International Association of Landscape Ecology Annual Meeting, Session on *Spread of Exotic Species in Fragmented Forests*, Madison, WI.
- 2010 Association of American Geographers Annual Meeting, Session on *Landscape Controls on Ecosystem Processes*, Washington, DC.
- 2014 U.S. Chapter of the International Association of Landscape Ecology Annual Meeting, Workshop on *Inquiry-Based Curriculum Development for Landscape Ecologists*, Anchorage, AK.
- 2017 Program Chair for the U.S. Chapter of the International Association of Landscape Ecology Annual Meeting in Baltimore, MD. *People, Places, Patterns: Linking Landscape Heterogeneity and Socio-Environmental Systems*

IV. TEACHING AND TRAINING

- 2001-2002 Preparing Future Faculty Fellow, Elon University, Elon, NC
- 2003-2004 Lecturer, Department of Geography, University of North Carolina, Chapel Hill, North Carolina
- 2005-2009 Graduate Faculty, Frostburg State University, Frostburg, MD
- 2005-2009 Graduate Faculty, University System of Maryland, College Park, MD
- 2007-2009 Lecturer, Environmental Sciences & Policy, Johns Hopkins University, Baltimore, MD
- 2009-present Faculty, University of Richmond, Richmond, VA
- 2010-2011 Community-Based Learning Fellow, Bonner Center for Civic Engagement, University of Richmond, VA
- 2011-2019 Faculty Mentor, Earth Lodge Living and Learning Community
- 2014-2015 River City Sustainability Fellow, Office of Sustainability, University of Richmond, VA
- 2014-2015 Robins School Faculty Learning Community, University of Richmond, VA
- 2015-2016 Extending Learning beyond the Classroom with Effective Technology Faculty Learning Community, University of Richmond, VA
- 2015-2017 Climate Change REMAP Faculty Learning Community, University of Richmond, VA
- 2016-2017 Community Based Learning Faculty Learning Community, University of Richmond, VA
- 2016-2017 New Models in Disseminating Knowledge Faculty Learning Community, Co-organizer, University of Richmond, VA
- 2017-2018 Environmental Stewardship in a Changing World, Faculty Learning Community, Co-organizer, University of Richmond, VA
- 2018-2019 Gambles Mill Eco-Corridor Campus as Living Lab, Faculty Learning Community, Organizer, University of Richmond, VA
- 2019-present University Innovation Fellows program, Faculty Director, University of Richmond, VA

A. University of Richmond Courses Taught

<i>Term</i>	<i>Course Title</i>	<i>Enrollment</i>
Fall 2009	Introduction to Earth Systems and Physical Geography	18
Fall 2009	Introduction to Earth Systems and Physical Geography (Lab Section)	18
Fall 2009	Environmental Systems Analysis	6
Spring 2010	Introduction to Earth Systems and Physical Geography	31
Spring 2010	Introduction to Earth Systems and Physical Geography (Lab Section)	18
Spring 2010	Independent Study	2
Fall 2010	Landscape Ecology	16
Fall 2010	Geography of the James River Watershed	16
Fall 2010	Independent Study	2
Spring 2011	Introduction to Earth Systems and Physical Geography	33
Spring 2011	Introduction to Earth Systems and Physical Geography (Lab Section)	17
Spring 2011	Environmental Gradients	10
Spring 2011	Independent Study	3
Fall 2011	Introduction to Earth Systems and Physical Geography	28
Fall 2011	Introduction to Earth Systems and Physical Geography (Lab Section)	15
Fall 2011	Landscape Ecology	15
Fall 2011	Independent Study	3
Spring 2012	Introduction to Earth Systems and Physical Geography	17
Spring 2012	Geography of the James River Watershed	15
Spring 2012	Independent Study	4
Fall 2012	Individual Internship	2
Spring 2013	Geography of the James River Watershed	16
Spring 2013	Introduction to Earth Systems and Physical Geography	18
Spring 2013	Landscape Ecology	19
Spring 2013	Independent Study	1
Fall 2013	Geography of the James River Watershed	12
Fall 2013	Landscape Ecology	12
Fall 2013	Individual Internship	1
Fall 2013	Independent Study	5
Spring 2014	Introduction to Earth Systems and Physical Geography	20
Spring 2014	Introduction to Earth Systems and Physical Geography (Lab Section)	20
Spring 2014	Individual Internship	1
Spring 2014	Independent Study	4
Spring 2014	Interdisciplinary Studies Thesis	1
Fall 2014	Protected Lands of the American West (SSIR)	15
Fall 2014	Landscape Ecology	21
Fall 2014	Individual Internship	1
Spring 2015	Introduction to Earth Systems and Physical Geography	32
Spring 2015	Introduction to Earth Systems and Physical Geography (Lab Section)	16
Spring 2015	Introduction to Earth Systems and Physical Geography (Lab Section)	16
Spring 2015	Independent Study	1
Spring 2015	Protected Lands of the American West Capstone	15
Fall 2015	Protected Lands of the American West (SSIR)	17
Fall 2015	Landscape Ecology	17
Fall 2015	Individual Internship	1
Spring 2016	Introduction to Earth Systems and Physical Geography	19
Spring 2016	Introduction to Earth Systems and Physical Geography (Lab Section)	19
Spring 2016	Protected Lands of the American West Capstone	17
Spring 2016	Individual Internship	1
Spring 2016	Independent Study	1
Fall 2016	Introduction to Earth Systems and Physical Geography	31
Fall 2016	Introduction to Earth Systems and Physical Geography (Lab Section)	16
Fall 2016	Geography of the James River Watershed (SSIR)	13

Fall 2016	Independent Study	1
Spring 2017	Landscape Ecology	20
Spring 2017	Geography of the James River Watershed Capstone	13
Fall 2017	Introduction to Earth Systems and Physical Geography	23
Fall 2017	Introduction to Earth Systems and Physical Geography (Lab Section)	13
Fall 2017	Introduction to Earth Systems and Physical Geography (Lab Section)	10
Fall 2017	Individual Internship	1
Fall 2017	Independent Study	1
Summer 2018	Introduction to Sustainability, Physical Geography and Env Conservation (Summer Study Abroad – Queensland, Australia)	8

B. Courses Taught Outside the University of Richmond

<i>Term</i>	<i>Course Title</i>	<i>University</i>	<i>Enrollment</i>
Fall 2003	Introduction to Environmental Geography	UNC	36
Fall 2003	Modeling the Environment	UNC	23
Spring 2004	Introduction to Environmental Geography	UNC	14
Spring 2004	Field Methods in Physical Geography	UNC	6
Summer 2006	Introduction to GIS	FSU	1
Fall 2006	GIS for Conservation Management	UM	1
Spring 2007	Introduction to GIS	FSU	2
Summer 2007	Introduction to GIS	FSU	1
Fall 2007	Landscape Ecology	JHU	12
Spring 2008	Introduction to GIS	UM	2
Fall 2008	Landscape Ecology (co-taught)	UM	12
Fall 2008	Introduction to GIS	UM	1
Spring 2009	Landscape Ecology	JHU	12

UNC – University of North Carolina; FSU – Frostburg State University; UM – University of Maryland; JHU – John Hopkins University

C. Graduate Students and Post-docs Major Advisor (6)

1. Degrees Conferred (2)

2006	Harsch, Melanie	M.S.	FSU	Invertebrate community structure & decomposition rates in exposed rootmats in western MD
2011	Suarez-Rubio, Marcela	Ph.D.	MEES	Exurban development: Quantification, forecast, & effects on bird communities

2. Post-doctoral Researchers (4)

2006-2008	Minor, Emily			Predicting invasions of exotic plants in fragmented parks
2007-2009	Julian, Jason			Land use and geomorphic controls of river processes
2011-2013	Kostadinov, Tihomir			New approaches to detecting ecological response to climate change
2019-present	Vivian Leung			Consortium for Faculty Diversity post-doc

D. Graduate Student Committee Memberships (10)

2006	Adams, Sherry	M.S.	FSU	The impact of <i>Microstegium vimineum</i> , an invasive exotic grass, on native species
2007	Hopfensperger, Kristy	Ph.D.	UM	Annual species patch dynamics: effects on tidal freshwater marsh ecosystem functioning and stability
2008	Lott, Keith	M.S.	FSU	Daily and seasonal patterns of bat activity along Central Appalachian Ridges
2008	Tessel, Samantha	M.S.	FSU	Beta-diversity across a fragmented landscape
2009	Florkowski, Lisa	M.S.	UM	Integrated assessment of Rock Creek Park

2010	Utz, Ryan	Ph.D.	UM	Interregional differences in stream ecosystem responses to urbanization: causes and consequences
2013	Madron, Justin	M.S.	VCU	Red spruce distribution: Cheat Mountain, West Virginia
2014	Campbell, Cara	Ph.D.	UM	Discovery of remnant populations of the endangered dwarf wedgemussel using GIS habitat analysis
2015	Weitzell, Roy	Ph.D.	UM	Buried streams and their effect on ecological connectivity
2016	Leonard, Grace	M.A.	UR	Keep the Cemetery Relevant: Placemaking Strategies for Evergreen Cemetery

V. SERVICE

A. Professional Service

Journal Peer Reviewer (39 journals): Landscape Ecology (18 reviews), Applied Geography, Applied Vegetation Science, Biological Conservation, Biological Invasions, Computers & Geosciences, Diversity & Distributions, Ecography, Ecology, Ecological Applications, Ecological Modelling, Ecological Monographs, Ecosystems, Environmental Management, Environmental Research Letters, Environmental Science and Technology, Freshwater Science, Forest Ecology and Management, Global Change Biology, International Journal of Applied Earth Observation and Geoinformation, Journal of Applied Ecology, Journal of Applied Meteorology and Climate, Journal of Ecology, Journal of Ecosystem and Ecography, Journal of Forestry, Journal of Hydrology, Journal of Mammology, Journal of Mountain Science, Journal of Vegetation Science, Landscape and Urban Planning, Northwest Science, PLOS ONE, Professional Geographer, Regional Environmental Change, Remote Sensing of Environment, Scientific Reports, Urban Habitats, Urban Ecosystems, Wetlands.

Coordinating Editor: Landscape Ecology (2014-present)

Ad hoc Reviewer: American Institute of Biological Sciences, National Science Foundation, National Geographic, National Park Service

U.S. Chapter International Association of Landscape Ecology: Awards Committee Member (2009-2018), and Chair (2012-2018); Student Presentation Judge at Annual Conference (2006-2011); Annual Meeting Program Chair (2017); Nominee for President (2017); Nominating Committee Chair (2017-present)

Advisory and Working Groups: National Ecological Observation Network (NEON) - Land Use and Habitat Alteration (2004); NPS Intermountain Region Inventory and Monitoring Network - Integrating Monitoring into Park Management (2005), North American Network for Remote Sensing Park Ecosystem Condition (NARSEC) - Landscape Monitoring (2007), Northern Eurasia Earth Science Partnership Initiative (NEESPI) -Terrestrial-Hydrologic Interactions in Eastern Europe (2008), Mid-Atlantic Green Infrastructure Community of Practice (MAGICoP) - Linking People, Nature and Landscapes through Sound Science (2009); Virginia Invasive Species Working Group (VaISWG) Advisory Committee (2011-2017); Envision the James Advisory Committee (2013-2017); City of Richmond Watershed Management/Integrated Planning Technical Stakeholder Group RVAH2O (2015-present); Richmond 300 Environmental Working Group (2019-present).

Education Outreach: Summer mentor for high school science teachers - Lois Ashley (2006), Elizabeth Williams (2007); Guest lectures in Summer Middle School Math and Science Teacher Courses (2010-2012); Advisor James River High School Leadership Specialty Center Internship Program - Sara Dawson & Matt Outland (2013), Emily Blair (2014), Cameron Donaldson (2017); Advisor James River Leadership Academy - Michael Og (2015-16); Advisor Math and Science Investigators (MSI) Program - Markee Watson & Jonathan Hargett (2016), MSI Co-Instructor for 17 tenth-grade students (2017).

Duke University Graduate Program: Panel Member for Preparing Future Faculty Fellows Banquet (2010), Panel Member for Board of Visitors (2011)

University of Maryland Center for Environmental Science - Appalachian Laboratory: GIS Data Archiving Committee (Chair) (2007-2009), Graduate Education Committee (2006-2009), Seminar Series Coordinator (2007), Faculty Search Committees (2007, 2008), Graduate Admissions Committee for Ecology Area of Specialization (2006-2008)

Scientific Advising: Southern Environmental Law Center - Proposed timber sale adjacent to Great Smoky Mountains National Park (2010); Potomac Conservancy - State of the Nation's River Report (2011); Maryland Department of the Environment - Best Management Practices for Marcellus Shale Gas Development in Maryland (2013); Southern Environmental Law Center – Atlantic Coast Pipeline (2015, 2017)

National Park Service: Inventory and Monitoring Plan, National Capital Region – Conceptual Model for Monitoring Program (2005) and Landscape Pattern Monitoring Protocol (2009); National Natural Landmark Designations - Nottingham Serpentine Barrens, PA (2009), Ice Mountain, WV (2012) Albany Pine Bush, NY (2014), Bear Rocks, WV (2017); Natural Resource Condition Assessments - Colonial National Historical Park, VA (2012), Petersburg National Battlefield, VA (2013), Shenandoah National Park, VA (2017), Booker T. Washington National Monument, VA (2017), Fort Monroe National Monument, VA (2018), Harriet Tubman Underground Railroad National Historical Park, MD (2019).

B. University of Richmond Service

2009-present	Environmental Studies Committee
2010-2019	Coordinator Global Environment Speaker Series
2010-present	Advisor for Geography Major
2011-2012	Environmental Awareness Group
2011-present	Advisor for Undeclared Students
2012-present	University contact VCU accelerated environmental studies Masters program
2012-2017	Bonner Center for Civic Engagement Advisory Committee
2012-2013	Geospatial Advisory Committee and Technical Sub-Committee
2013-present	University technical contact Chesapeake Watershed Cooperative Ecosystem Study Unit
2013-present	Advisor for Environmental Studies Major
2014-2015	University Faculty Council
2014-2015	One Book, One Richmond Committee
2014	Director of Sustainability Search Committee (R. Andrejewski)
2014-2016	Environmental Justice Think Tank
2014-2017	SCPS Nonprofit Studies Advisory Committee
2015-2016	Ad hoc University Committee to Revise Requirements for Bachelor of Science Degree
2015-2017	Arts and Sciences Deans Advisory Committee
2015-2017	Chair Department of the Geography and the Environment
2015-2017	Arts and Sciences Nominating Committee (Chair, 2016-2017)
2016	University Strategic Plan, Academic Excellence Working Group
2016-present	Faculty Mentor (J. LeCrone, Mathematics; S. Spera, Geography)
2016-present	Jepson Science Leadership Scholars Program Science Advisory Committee (Chair, 2018-present)
2017	GIS for A&S Ad Hoc Committee
2017	Remote Sensing Assistant Professor Search Committee, Chair (S. Spera)
2018-present	Faculty Senate, USAC Liaison and Sub-Committee on IT Governance
2018-present	Carnegie Community Engagement Classification, Strategy Team
2019-present	Interim Director Spatial Analysis Lab
2019-present	University Innovation Fellows program, faculty director