

Michael S. Scott, PhD, GISP

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Education

University of South Carolina	Geography	PhD	1998
University of South Carolina	Geography	MS	1994
Salisbury State University	Geography	BS	1992

Professional Positions Held

2010 – present	Professor of Geography, Salisbury University
2006 – present	Graduate Program Director, Master of Science in GIS Management
2004 – present	Director, Eastern Shore Regional GIS Cooperative
2003 – 2010	Associate Professor of Geography, Salisbury University
1998 – 2003	Assistant Professor of Geography, Salisbury (State) University
1997 – 1998	Geographic Database Manager, Hazards Research Lab, University of South Carolina

Publications, Refereed

- Srinivasan, D. & Scott, M. S. (2010). *Flood Mitigation Plan for Cecil County, Maryland*. Elkton, MD: Cecil County Department of Emergency Service. 123 pp.
- Srinivasan, D. & Scott, M. S. (2010). *Flood Mitigation Plan for Howard County, Maryland*. Columbia, MD: Howard County Department of Public Works. 121 pp.
- Srinivasan, D., Scott, M. S., & Marsh, S. (2009). *University of Maryland Eastern Shore Hazard Mitigation Plan*. Princess Anne, MD: UMES Department of Facilities Planning. 238 pp.
- Srinivasan, D. & Scott, M. S. (2009). *Flood Mitigation Plan for Calvert County, Maryland*. Prince Frederick, MD: Calvert County Department of Planning and Zoning. 115 pp.
- Srinivasan, D. & Scott, M. S. (2009). *Dorchester County, Maryland Flood Mitigation Plan*. Cambridge, MD: Dorchester County Emergency Management Agency. 129 pp.
- Srinivasan, D. & Scott, M. S. (2009). *City of Takoma Park Flood Plan*. Takoma Park, MD: City of Takoma Park Department of Public Works. 104 pp.
- Srinivasan, D. & Scott, M. S. (2008). *City of Salisbury Flood Mitigation Plan*. Salisbury, MD: City of Salisbury Department of Public Works. 118 pp.
- Limpert, D. L., Birch, D. L., Scott, M. S., Andre, M. & Gillam, E (2007). "Tree Selection and Landscape Analysis of Eastern Red Bat Day Roosts." *Journal of Wildlife Management*. 71(2). 478-486.
- Cutter, S. L., Mitchell, J. T., & Scott, M. S. (2006). "Revealing the vulnerability of people and places: a case study of Georgetown County, South Carolina." In S. L. Cutter (Ed.), *Hazards, Vulnerability, and Environmental Justice*. London: Earthscan. 83-113.
- Scott, M. S. & Cutter, S. L. (2006). Using relative risk indicators to disclose toxic hazard information to communities. In S. L. Cutter (Ed.), *Hazards, Vulnerability, and Environmental Justice*. London: Earthscan. 307-326.
- Cutter, S. L., Scott, M. S., & Hill, A. A. (2002). Spatial variability in toxicity indicators used to rank chemical risks. *American Journal of Public Health*. 92(3), 420-422.
- Cutter, S. L., Mitchell, J. T., & Scott, M. S. (2000). Revealing the vulnerability of people and places: a case study of Georgetown County, South Carolina. *Annals of the Association of American Geographers*. 90(4), 713-737.
- Thomas, D. S. K., Mitchell, J. T., Scott, M. S., & Cutter, S. L. (1999). Developing a digital atlas of environmental risks and hazards. *Journal of Geography*. 98: 201-207.
- Scott, M. S. & Cutter, S. L. (1997). Using relative risk indicators to disclose toxic hazard information to communities. *Cartography and Geographic Information Systems*. 24(3): 158-171.
- Scott, M. S., Cutter, S. L., Menzel, C., Ji, M., & Wagner, D. (1997). Spatial accuracy of EPA's environmental hazards databases and their use in environmental equity analyses. *Applied Geographic Studies*. 1(1): 45-61.

Publications, Non-Refereed & Proceedings

- Scott, M. S. (2008). *Flood Hazard Vulnerability Assessment for Dorchester County*. Annapolis, MD: Maryland Department of Natural Resources. 112 pp.
- Joyce, J. M. & Scott, M. S. (2005). *An Assessment of Maryland's Vulnerability to Flood Damage*. Baltimore, MD: Maryland Department of the Environment. 264 pp.

- Folkoff, M. E., Venso, E. A., Harris, D. W., Frana, M. F., & Scott, M. S. (2002). Bacterial Source Tracking of Nonpoint Source Pollution using GIS and DNA Fingerprinting Techniques. In O. A. Khan (Ed.), *Geographic Information Systems & Health Applications*. Hershey, PA: Idea Group Publishing. 208-222.
- Venso, E. A., Frana, M. F., Folkoff, M. E., Scott, M. S., Harris, D. W., & Phipps-Dickerson, M. (2001). *Fecal Coliform Fingerprints from Nonpoint Source Pollution in the Lower Wicomico River and the Wicomico River Headwaters Watersheds*. Salisbury, Maryland: Salisbury University.
- The Project Management Group & The Mapping Science Group. (2001). *Project Access: Developing a Regional Public Transportation System for the Lower Eastern Shore of Maryland, Phase II (2000-2001)*. Salisbury, Maryland: Salisbury University.
- Scott, M. S. & Rosing, R. A. (2001). *A Report on a Survey of Access and Use of Public Water-Based Recreation Facilities in the Chesapeake Bay Region*. Chesapeake Bay Program: Annapolis, Maryland
- The Project Management Group & The Mapping Science Group. (2000). *Regional Transportation Master Planning Project for the Lower Eastern Shore*. Salisbury, Maryland: Salisbury State University.
- Chen X. M., Harris, D., Folkoff, M., Scott, M., Thomas, C., & Drudge, R. (1999). GIS Technology in Social Services. *Proceedings of the 24th National Institute on Social Work and Human Services in Rural Areas*. Princess Anne, Maryland: UMES. 47 – 54.
- Cutter, S. L., Thomas, D. S. K., Cutler, M. E., Mitchell, J. T., & Scott, M. S. (1998). *South Carolina Atlas of Environmental Risks and Hazards* [CD-ROM]. Columbia, South Carolina: University of South Carolina Press.
- Cutter, S. L., Mitchell, J. T., & Scott, M. S. (1997). *Handbook for Conducting a GIS-Based Hazards Assessment at the County Level*. Columbia, South Carolina: South Carolina Emergency Preparedness Division.
- Cutter, S. L., Mitchell, J. T., Scott, M. S., & Thomas, D. S. K. (1997). *A GIS-Based Hazards Assessment for Georgetown County, South Carolina*. Unpublished Final Report. Columbia, SC: South Carolina Emergency Preparedness Division.
- Collins, R. F., Scott, M. S., Thomas, D. S. K., & Hodgson, M. E.. (1997). *Working Bibliography on Hazards and Geographic Information Processing Techniques*. Hazards Research Lab Discussion Paper Series No. 10. Columbia, SC: HRL.
- Scott, M. S., Menzel, C. & Cutter, S. (1997). *Relative Risk Profiles: A Methodology for Assessing Community Risk*. Hazards Research Lab Discussion Paper Series No. 9. Columbia, SC: HRL.
- Scott, M. S. (1997). Extending map algebra concepts for volumetric geographic analysis. *Proceedings, GIS/LIS '97*. Cincinnati, Ohio: AAG, ACSM, AM/FM International, ASPRS, and URISA. 307-315.
- Mitchell, J. T., Scott, M. S., Thomas, D. S. K., Cutler, M., Putnam, P., Collins, R. F., & Cutter, S. L. (1997). Mitigating against disaster: assessing hazard vulnerability at the local level. *Proceedings, GIS/LIS '97*. Cincinnati, Ohio: AAG, ACSM, AM/FM International, ASPRS, and URISA. 563-571.
- Scott, M. S. (1997). The extension of cartographic modeling for three-dimensional geographic analysis. *Proceedings, University Consortium for Geographic Information Science Annual Assembly and Retreat*. Bar Harbor, Maine: UCGIS. www.spatial.maine.edu/ucgis/testproc/scott_m/scottm.html
- Cutter, S. L., Wagner, D. F., Scott, M. S., Menzel, C. & Ji, M. (1996). *Spatial Accuracy in EPA's Environmental Hazards Databases: A Cautionary Tale*. Hazards Research Lab Discussion Paper Series #4. Columbia, SC: HRL.
- Scott, M. S. & Cutter, S. L.. (1996). Environmental equity and GIS: An analysis of the assumptions. In T. Harris and D. Weiner, eds., *GIS and Society: The Social Implications of How People, Space, and Environment Are Represented in GIS*. NCGIA Technical Report 96-7, November 1996. Santa Barbara, CA: National Center for Geographic Information and Analysis. D66 - D69.
- Wagner, D. F. & Scott, M. S. (1995). Improving the performance of raster GIS: a comparison of approaches to parallelization of cost volume algorithms. *Proceedings, Auto-Carto 12*. Charlotte, North Carolina: American Congress on Surveying and Mapping. 164-176.
- Scott, M. S. (1994). The development of an optimal path algorithm in three-dimensional raster space. *Proceedings, GIS/LIS '94*. Phoenix, Arizona: AAG, ACSM, AM/FM International, ASPRS, and URISA. 687-96.
- Wagner, D. F., Posey, A. S., & Scott, M. S. (1993). Improved best path solutions in raster GIS. *Proceedings, GIS/LIS '93*. Minneapolis, Minnesota: AAG, ACSM, AM/FM International, ASPRS, and URISA. 718-26.

Recent Professional Presentations (Total number of presentations: 114)

- Scott, M. (2010, November 22). "The Devil Is In the Details: Politics, Mapping of Delmarva & the John Smith Chesapeake Trail". Lecture to the Gull Creek Retirement Community. Berlin, Maryland.
- Scott, M. (2010, November 11). "The Devil Is In the Details: Politics, Mapping of Delmarva & the John Smith Chesapeake Trail". Lecture to the Cambridge Power Squadron. Secretary, Maryland.
- Scott, M. (2010, October 14). "The Devil Is In the Details: Politics, Mapping of Delmarva & the John Smith Chesapeake Trail". Nabb Center Lecture Series. Salisbury, Maryland.
- Van Dopp, D., Scott, M., Miller, K., Sides, D.A., & Luken, J.M. (2010, May 17). "Mapping Maryland's Broadband Inventory – The Maryland Broadband Mapping Initiative". Towson University GIS Conference, Towson, Maryland.
- Silva, E., McDermott, L., Wheatley, J.M., & Scott, M. (2010, May 17). "A Reinvention of the National Wetlands Inventory Mapping Process for Coastal Georgia". Towson University GIS Conference, Towson, Maryland.
- Scott, M.S. (2010, April 21). ESRGC Update. Maryland State Geographic Information Committee Quarterly Meeting, Cambridge, Maryland.
- Flatley, R. L., Bauer, F. D., Scott, M.S., & Chen, X. M. (2010, April 15). A Risk and Vulnerability Impact Assessment of Sea Level Rise for Wicomico County, Maryland. Annual Meeting of the Association of American Geographers, Washington, DC.
- Garrity, J, Bunch, S., Diriker, M. & Scott, M. (2010, March 24). GeoDash. Testimony for the Maryland House of Delegates, Annapolis, MD
- Garrity, J, Bunch, S., Diriker, M. & Scott, M. (2010, January 27). The GeoDash Initiative. Presentation to the Maryland Senate Finance Committee, Annapolis, MD
- Warner, S., Pennington, M., Bethke, P., Haythe, K., Walsh, J. & Scott, M. (2010, January 7). Senator Mikulski Briefing on Economic Development Activities in the MidShore Region. MaCO Winter Conference, Cambridge, Maryland.
- Garrity, J, Bunch, S., Diriker, M. & Scott, M. (2009, December 10). GeoDash. the Joint Meeting of the Tri-County Council of the Lower Eastern Shore of Maryland and the Mid-Shore Regional Council, Cambridge, MD
- Glynn-Linaris, V., Scott, M., & Mueller, T. (2009, March 16). "Building a HAZUS Community in Maryland." Towson University GIS Conference, Towson, Maryland.
- Scott, M., Owens, M., & Cicconetti, B. (2009, March 16). "Moving the Line – Critical Area Boundary Mapping." Towson University GIS Conference, Towson, Maryland.

Recent Grants & Contracts (Total number/value of grants & contracts: 125 for \$5,175,189)

- Chesapeake Bay Critical Area Mapping*, October 2010 – September 2011, Funded by Maryland Department of Natural Resources, \$98,027
- Provision of Student Intern to Wicomico County Public Works*, September 2010 – August 2011, Funded by Wicomico County Department Public Works, \$6,380
- Provision of Student Intern to Wicomico Planning/ Zoning*, September 2010 – February 2012, Funded by Wicomico County Planning and Community Development, \$9,380
- IMS Website for the Pipeline Association for Public Awareness*, June 2010 – December 2010, Funded by Bridge Solutions, LLC, \$38,500
- ESRGC & Vision Planning and Consulting, LLC, *Howard County Flood Mitigation Plan*, June 2010 – August 2010, Funded by Howard County Department of Planning, \$11,000 (ESRGC portion)
- ESRGC & Vision Planning and Consulting, LLC, *Cecil County Flood Mitigation Plan*, April 2010 – November 2010, Funded by Cecil County Department of Emergency Management, \$10,500 (ESRGC portion)
- Quality Assurance Plan and QC of Aerial Imagery*, March 2010 – December 2010, Funded by AXIS Geo Spatial Companies, \$15,000
- Eastern Shore Regional GIS Cooperative Year 7*, January 2010 – December 2010, Funded by Mid-Shore Regional Council, and Tri-County Council of the Lower Eastern Shore, \$30,000
- Chesapeake Bay Critical Area Mapping*, January 2010 – June 2010, Funded by Maryland Department of Natural Resources, \$67,000
- Maryland Broadband Cooperative, Inc., ESRGC, Center for GIS, Business, Economic, and Community Outreach Network, Regional Economic Systems Institute, and Maryland Department of Information Technology, *Maryland Broadband Mapping Initiative*, November 2009 – October 2014, Funded by National Telecommunication and Information Administration via the Maryland Broadband Cooperative, \$2,210,327 (ESRGC portion only; total project: \$4.75 million)

Maryland dFIRM Outreach Support, October 2009 – September 2010, Funded by Maryland Environmental Service, \$9,500

Provision of Student Intern to City of Salisbury, October 2009 – August 2010, Funded by City of Salisbury Department of Public Works, \$13,160

Chesapeake Bay Critical Area Orthophotography Procurement, October 2009 – December 2009, Funded by Maryland Department of Natural Resources, \$40,000.

Provision of Student Intern to Wicomico County Public Works, September 2009 – August 2010, Funded by Wicomico County Department Public Works, \$9,380

Provision of Student Intern to Wicomico County Planning/Zoning, September 2009 – August 2010, Funded by Wicomico County Department of Planning and Community Development, \$9,380

Centerline Attribution within Metropolitan Planning Organization Boundary (Phase II), June 2009 – June 2010, Funded by Wicomico County Department of Planning and Community Development, \$6,300

ESRGC & Vision Planning and Consulting, LLC, *Delaware Hazard Mitigation Plan Updates*, June 2009 – May 2010, Funded by Delaware Emergency Management Agency, \$31,890 (ESRGC portion)

George, Miles, & Buhr, LLC, Vision Planning and Consulting, LLC & ESRGC, *A Hazard Mitigation Plan for the University of Maryland, Eastern Shore*. January 2009 – September 2009, Funded by University of Maryland, Eastern Shore, Princess Anne, Maryland, \$20,000 (ESRGC portion)

Eastern Shore Regional GIS Cooperative Year 6, January 2009 – December 2009, Funded by Mid-Shore Regional Council, and Tri-County Council of the Lower Eastern Shore, \$36,000

Current Teaching Responsibilities

2009	Co-Instructor, The Geography of the Desert Southwest (GEOG 450). 10 students. Winter semester (field course). Department of Geography and Geosciences, Salisbury University
2007 – Present	Instructor, GIS Co-op Experience (GEOG 640). 8 students per semester. Every Spring semester. Department of Geography and Geosciences, Salisbury University
2007 – Present	Instructor, GIS and Public Administration (GEOG 630). 8 students per semester. Every Fall semester. Department of Geography and Geosciences, Salisbury University
2007 – Present	Instructor, Advanced Geographic Information Science (GEOG 519). 10 students per semester. Every June. Department of Geography and Geosciences, Salisbury University
2000 – Present	Instructor, Cartographic Visualization (GEOG 320). 24 students per semester. Fall semester, every other year. Department of Geography and Geosciences, Salisbury University
1999 – Present	Instructor, Environmental Hazards (GEOG 450, 403). 24 students per semester. Fall semester every other year. Department of Geography and Geosciences, Salisbury University
1998 – Present	Instructor, Introduction to Geographic Information Science (GEOG 319). 24 students. Every semester. Department of Geography and Geosciences, Salisbury University

Courses no longer taught regularly: World Regional Geography, Introduction to Human Geography, & Cartography

Recent Service Obligations - Discipline

PhD Dissertation Committee, Ms. Keota Silaphone, University of Maryland Center for Environmental Science, 2010 – present

Regional Councilor, Middle Atlantic Division of the Association of American Geographers, 2010 - present

Member, NSGIC Broadband Working Group, 2010 - present

Member, Executive Committee, Maryland State Geographic Information Committee (MSGIC), 2001 – 2005, 2009 – present, Chair-Elect FY2011, Chair FY2012

Invited member, Maryland GIS Coordination Strategic Planning Committee, 2006 - 2009

Eastern Shore representative to the Maryland Association of State Floodplain Managers Executive Committee, 2006 - 2010

Chair, Mid-Shore Regional Council's GIS Committee, 2005 – present, Member from 2003 - present

Member, Towson University Geographic Information Sciences Conference Advisory Committee, 2002 – present

Member, Tri-County Council of the Lower Eastern Shore's GIS Committee, 2002 – present, Chair from 2002 - 2008

Significant accomplishments: Authored subcommittee's mission statement and organizational goals

Member, Marketing and Education Subcommittee, Maryland State Government Geographic Information Coordinating Committee, 2000 – present

Recent Service Obligations - University

Member, Honors Convocation Committee, 2010 – present

Member, Honors Program Task Force, 2010 – present

Member, University Research Council, 2010 - present

Member, Membership & Elections Committee, 2010

Member, Ad-hoc Committee on Faculty Senate Reorganization, 2009 - 2010

Member, Academic Policies Committee, 2009 - 2010

Member, Membership and Elections Committee, 2008 - 2009

Member, SU Graduate Council, 2007 - present

Member, Faculty Senate (elected at-large), 2006 – 2012; Webmaster, 2008 - 2009

Member, Search Committee for the Dean of Research and Graduate Studies, 2009 - 2010

Member, Henson Curriculum Committee, 2002 - 2009

Recent Service Obligations - Department

Chair, Search Committee for GIScience Visiting Assistant Professor, 2009 - 2010

Member, Tenure and Retention Committee for Dr. Mark de Socio, 2008 - present

Member, Tenure and Retention Committee for Dr. Gina Bloodworth, 2008 - present

Chair, Tenure and Retention Committee for Dr. Arthur Lembo, 2007 - 2010

Chair, Tenure and Retention Committee for Dr. Alexis Aguilar, 2006 - present

Member, Tenure and Retention Committee for Dr. Amal Ali, 2006 - 2010

Member, Tenure and Retention Committee for Dr. Darren Parnell, 2006 - 2010

Maintain and service the Department of Geography Windows XP network which includes almost 100 computers including lab machines as well as faculty machines and research machines. 1998 – present.

Awards

University System of Maryland's Wilson H. Elkins Professorship, 2009 - 2010

FEMA's HAZUS-MH User of the Year for the 3rd Quarter, 2009

University System of Maryland Regents' Faculty Award for Public Service, 2008

Outstanding Contribution to GIS in Maryland Award, Towson GIS Conference, 2007