CURRICULUM VITAE Marguerite Madden

Professor and Director
Center for Geospatial Research (CGR),
Department of Geography
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RESEARCH INTERESTS:

GIScience and Landscape Ecology, including remote sensing, geographic information systems (GIS), spatio-temporal analysis, geovisualization and geographic object-based image analysis, as applied to landscape-scale biological/physical processes and human-impacts on the environment.

EDUCATION:

The University of Georgia: Athens, GA., Ph.D. Ecology, June 1990. GPA 3.9 Dissertation Title: *Remote Sensing and Geographic Information Systems for Aquatic Resource Management*, 142 pp.

State University of New York: Plattsburgh, N.Y., M.A. Biology, Aug. 1984. GPA 4.0 Thesis Title: Use of Aerial Photography to Study Beaver (Castor canadensis) Impact on Plant Community Succession in the Adirondacks of New York, 143 pp.

State University of New York: Plattsburgh, N.Y., B.A. Biology, May 1979. GPA 3.7 **University of Copenhagen**: Copenhagen, Denmark. SUNY Study Abroad, Spring 1979.

PROFESSIONAL EXPERIENCE:

7/08-Present. Professor with Tenure, Dept. of Geography, University of Georgia.

7/05-Present. Director, Center for Geospatial Research, Department of Geography, University of Georgia.

12/03-Present. Graduate Faculty, Dept. of Geography, University of Georgia.

7/05-7/08. Associate Professor, Dept. of Geography, University of Georgia.

12/03-7/1/05. Interim Director, Center for Remote Sensing and Mapping Science, Dept. of Geography, University of Georgia.

7/03-7/05. Senior Research Scientist, Center for Remote Sensing and Mapping Science, Dept. of Geography, University of Georgia.

10/99-7/05. Adjunct Associate Professor, Dept. of Geography, University of Georgia.

10/95-12/03. Associate Director for Environmental Studies, Center for Remote Sensing and Mapping Science, Dept. of Geography, The University of Georgia.

9/93-7/03. Associate Research Scientist, Center for Remote Sensing and Mapping Science, Dept. of Geography, University of Georgia.

7/91-9/93. Assistant Research Scientist, Center for Remote Sensing and Mapping Science, University of Georgia.

7/90-7/91. Post-Doctoral Research Associate, Center for Remote Sensing and Mapping Science, Department of Geography, University of Georgia.

6/85-7/90. Graduate Research Asst., Center for Remote Sensing and Mapping Science, Dept. of Geography, University of Georgia.

1/85-6/85. Graduate Teaching Asst., University of Georgia, Dept. of Zoology.

- 6/84-1/85. Wetlands Research Analyst, Laboratory of Remote Sensing, Center for Earth and Environmental Science, State University of New York.
- 9/82-6/84. Graduate Teaching Asst., Dept. of Biology, State University of New York.
- 1/82-9/82. National Wetlands Inventory Analyst, Laboratory for Remote Sensing, Center for Earth and Environmental Science, State University of New York.

RESEARCH GRANTS:

- University of Georgia Learning Technologies Grant, 2019-2020. InnovativeTechnologies in Teaching and Learning: Incorporating Recent Developments in Augmented Reality into Active Learning at UGA. Co-PI with Sergio Bernardes (PI), \$24,989.
- National Aeronautics and Space Administration, July 1, 2019-June 30, 2024. Cooperative Institute for Satellite Earth Systems Studies (CISESS), National consortium of 16 academic and 4 nonprofit institutions with leadership from the University of Maryland College Park and North Carolina State University, Co-PI with Fernando Miralles-Wilhelm (UMD-PI) and UGA Co-PIs J. Marshall Shepherd, Thomas Mote, John Knox, Alan Flurry, Karri Hobson-Pape, Gabe Kooperman, Amanda Frossard, Renato Castelao and David Cotten, Total 5-year grant \$175,000,000.
- U.S. Army Corps of Engineers, 2018-2020. Evaluating Physical, Chemical and Biological Impacts from the Savannah Harbor Expansion Project, (Co-PI with PI S. Bernardes) \$249.564.
- U.S. Department of Agriculture (USDA) Forest Service, 2016-2020. Spatial Analysis of Social Science Indicators for National Forest Management, PI with Cassandra Johnson Gaither (Co-PI), \$100,000.
- U.S. Department of Agriculture-Agricultural Research Station, Southeast Watershed Research Lab, 2017-2021, Geospatial Modeling of Agroecological Systems and Dynamics in the Gulf Atlantic Coastal Plain LTAR Site. (PI), \$74,994.
- U.S. Air Force Research Laboratory (AFRL)-University Nanosatellite Program (UNP), Phase B: Multi-view On Board Computational Imager (MOCI), Co-PI with PI David Cotten and Co-PIs Malcom Adams, R. Benjamin Davis, Jenna Jambeck, Deepak Mishra, Thomas Mote, Ramana Pidaparti, J. Marshall Shepherd and Suzanne Ullrich, \$755,986.
- University of Georgia Learning Technologies Grant, 2018-2019. Innovative Technologies in Teaching and Learning: Incorporating Recent Developments in Augmented Reality into Active Learning at UGA. Co-PI with Sergio Bernardes (PI), \$24,989.
- University of Georgia Office of the Vice President for Research, June 15, 2017 June 30, 2019, Dynamic Time-Series Visualization of the Cultural and Natural Landscape Surrounding Baldwin Hall: 1800s to Present, PI with Co-PI Sergio Bernardes, \$78,035.
- National Aeronautics and Space Administration, 2016-2019. Undergraduate Student-Led Design and Construction of a Launch-Ready CubeSat Nanosatellite for Global Coastal and Ocean Observations: Digital Orbital Analysis of Water Resources for Georgia, Co-PI with Deepak Mishra (PI) and Co-PIs Malcom Adams, Adrian Burd, David Cotten, William Dennis, Thomas Jordan, Thomas Mote, J. Marshall Shepherd and Suzanne Ullrich, with UGA undergraduates: Caleb Adams, Juweek Adolphe, Ryan Babaie, Helena Alexis Bales, Anurag Banerjee, Kenneth Cochran, Paige Copenhaver, Carols Gonzalez, Graham Grable, Nicholas Gravina, Nirav Ilango, Paul Keith, Adam King, Megan Le Corre, Nicholas Neel, Khoa Ngo, Jaicob Stewart \$200,000.
- Air Force Research Laboratory (AFRL) University Nanosatellite Program (UNP) administered by the Utah State University Research Foundation, Space Dynamics Laboratory, 2016-2019. GeorgiaSat-1 Undergraduate Student-Led Design and Construction of a Nanosatellite for Global Coastal/Ocean Observations and 3D Surface Modeling, Co-PI with Deepak Mishra (PI) and Co-PIs Malcom Adams, David Cotten, R. Benjamin Davis, Jenna Jambeck, Thomas

- Mote, Ramana Pidaparti, J. Marshall Shepherd, Suzanne Ullrich, and UGA undergraduates: Caleb Adams, Juweek Adolphe, Ryan Babaie, Helena Alexis Bales, Anurag Banerjee, Kenneth Cochran, Paige Copenhaver, Carols Gonzalez, Graham Grable, Nicholas Gravina, Nirav Ilango, Paul Keith, Adam King, Megan Le Corre, Nicholas Neel, Khoa Ngo, Jaicob Stewart, \$147,500.
- Wormsloe Institute for Environmental History and Wormsloe Foundation, 2015-2020. Geospatial Data Collection and Analysis using UAS and Photogrammetry, (PI) \$21,145.
- University of Georgia Office of the Vice President for Research, 2017-2018, The Resilient Design and Immersive Outreach CoLaboratory at Skidaway: An Interdisciplinary Partnership on Skidaway Island to Demonstrate and Achieve Resilience, Co-PI with PI Clark Alexander and Co-PIs Brian Bedsloe, Glen Nowak, Sun Joo Ahn, Jon Calabria, Shana Jones, Scott Pippin, Anne Lindsay, Jessica Brown, Tom Bliss, Jill Gambill, Danny Bivins and Leigh Elkins, \$131,085.
- The Carter Center's River Blindness Elimination Program, 2016-2018. Geospatial contributions to worldwide elimination of river blindness (Onchocerciasis): Using Earth observations to locate at-risk Yanomanmi populations and airstrips in the Amazon region. Co-PI with Sergio Bernardes (PI), \$39,850.
- U.S. Army Corps of Engineers, 2013-2018. Evaluating Physical, Chemical and Biological Impacts from the Savannah Harbor Expansion Project, (PI with Co-PIs T. Jordan and S. Bernardes) \$568,144.
- National Park Service, Southeast Coast Network, 2013-2018. Digital Vegetation Databases and Maps for National Park Units of the Southeast Coast Network, (PI with Co-PI T. Jordan) \$370,507.
- Georgia Department of Natural Resources (GDNR), 2001-2018. Geographic Information Systems Studies for the Wildlife Resources Division, Georgia Department of Natural Resources, (PI) \$327,338.
- University of Georgia Learning Technologies Grant, 2016-2017. Bringing 3D Immersion through Virtual/Augmented Reality and Geovisualization Technologies to Geography-Geology Courses. Co-PI with Sergio Bernardes (PI), \$24,949.
- National Science Foundation, 2015-2016. Doctoral Dissertation Research for Robert Dean Hardy: Mapping Uneven & Alternative Social Vulnerabilities to Sea-Level Rise on the Georgia Coast, (Faculty PI), Robert Dean Hardy (Co-PI) \$15,998.
- National Parks Conservation Association, 2015-2016. Keeping the Promise: Planning the Future of the Blue Ridge Parkway II, (PI) \$83,962.
- University of Georgia Faculty Research Grants in the Sciences 2013-2016, Geospatial assessment of time spent outdoors for work and occupational physical activity, Co-PI with Jennifer Gay (PI), \$9,988.
- ArborGen, Inc. 2012-2013. Geovisualization of Forest Stands, (PI with T. Jordan, A. Presotto and C. Chou), \$4,000.
- National Institutes of Health, 2010-2013. Does Biogeography Select for Human Disease Patterns among Salmonella Serovars? (Co-PI with E. Lipp (PI) and J.J. Maurer, S. Hernandez, S. Sanchez, and S. Valeika), Total \$444,939.
- National Aeronautic and Space Administration (NASA) 2009-2013. Earth and Space Science Fellowship for Sergio Bernardes, Vegetation Responses to Low Frequency Climatic Events: Changes in Primary Productivity, Vegetation and Drought Indices in the Southeast United States Following the 2006-2009 Drought, (PI) \$90,000.
- National Science Foundation, 2011-2015. Doctoral Dissertation Research for Amber Ignatius: Cumulative Impacts of Small Reservoir Construction on Evaporation and Water Quality in the Piedmont, (PI), Amber Ignatius (Co-PI) \$11,992.

- AmericaView, 2011-2013. K-12 MultiSpec Tutorials to Support Earth Observation Day: Remote Sensing of Urban and Rural Landscapes Surrounding Georgia Schools (PI), \$10,000.
- National Parks Conservation Association, 2011-2014. Keeping the Promise: Planning the Future of the Blue Ridge Parkway, (PI) \$29,965.
- Wormsloe Institute for Environmental History and Wormsloe Foundation, 2009-2014. Wormsloe Vegetation Survey: Establishment and Inventory of Permanent Plots, (PI) \$14,150.
- Wormsloe Institute for Environmental History and Wormsloe Foundation, 2010-2013. Herpetofaunal Inventory of the Wormsloe State Historic Site: Filling in the Gaps, (PI) \$6,500.
- CellFor, Inc. 2011. Geovisualization of Forest Stands, (PI with T. Jordan, A. Presotto and C. Chou), \$4,000.
- U.S. Geological Survey, 2010-2011. Acquisition of Lidar for the Tennessee Portion of Great Smoky Mountains National Park and the Foothills Parkway, (PI with T. Jordan, J.B. Sharma and S.S. Panda) \$389,481.
- U.S. Geological Survey, 2010-2011. Acquisition and Analysis of High Spatial Resolution Orthoimagery for the Great Smoky Mountain National Park and the Chattahoochee National Forest, (Co-PI with S.S. Panda (PI), J.B. Sharma and T. Jordan (Co-PIs) \$499,774.
- University of West Georgia Georgia View, 2005-2011. Geographic Information Science (GISci) Undergraduate Internship at The University of Georgia, (PI) \$24,820.
- National Science Foundation Planning/Workshop Grant, 2008-2009. Integrative Geospatial and Behavioral Approaches for Predicting Capuchin Monkey Tool Use in Brazil (PI with Dorothy Fragaszy, UGA Psychology) \$19,955.
- Sapelo Island National Estuarine Research Reserve, 2009. Orthorectification of Historical Aerial Imagery of Sapelo Island NERRS, Sapelo Island, Wolf Island NWR and Blackbeard Island NWR, (PI with T. Jordan) \$15,400.
- Sapelo Island National Estuarine Research Reserve, 2008-2010. NERRS Comprehensive Habitat and Landuse Mapping at Sapelo Island, Wolf Island NWR and Blackbeard Island NWR, (PI with T. Jordan) \$35,096.
- UGA 2006-2007 Learning Technologies Grant, GeoWall for Stereo Visualization in the Geography-Geology Classrooms (PI with C.P. Lo) \$ 14,810.
- National Park Service, 2005-2009. Vegetation Databases, Orthoimages and Buffer-Area Land Cover in Four National Park Units of the Cumberland/Piedmont Network, (PI with T. Jordan) \$166,752. (\$18,201 in FY 2009).
- Wormsloe Institute for Environmental History, 2008. Mapping Vegetation, Historic and Prehistoric Features at Wormsloe, (Co-PI with T. Jordan) \$ 19,700.
- Revitalization of Traditional Cherokee Artisan Resources, 2005 2009. Digital Vegetation Databases and Maps for the Qualla Boundary and other Tribal Lands (PI with Thomas Jordan) \$131,375.
- National Park Service, 2007-2008. Orthoimages and Forest-Agriculture-Urban Conversion 1938-1980 for the Chattahoochee River National Recreation Area, (PI with T. Jordan) \$20,385.
- The Nature Conservancy, 2007-2008. Assessing Remote Sensing Inputs to the Eglin Air Force Base Ecosystem Condition Model (PI with Thomas Jordan) \$23,979.
- ARCADIS, 2007-2008. Overstory Vegetation Mapping for Foothills Parkway, Tennessee, (PI with T. Jordan) \$22,505.
- National Park Service, 2006-2008. Sampling Strategy for Accuracy Assessment of Vegetation Databases for Parks in the Appalachian Highlands Inventory & Monitoring Network CESU, (PI with T. Jordan) \$55,343.
- Florida Department of Environmental Protection, 2005-2007. Monitoring, Modeling and Assessment of the Everglades Ecosystem: R-EMAP Phase III, (PI with T. Jordan) Funded: \$85,519.

- National Park Service, 2004-2007. Orthoimage Production and Buffer-Area Landcover Mapping in National Park Service Units of the Appalachian Highlands and Cumberland/Piedmont Networks, (PI with T. Jordan) \$183,000.
- National Park Service, 2001-2007. Digital Vegetation Databases and Maps for National Park Service Units in the Appalachian Highlands and Cumberland/Piedmont Networks, (PI with R. Welch) \$985,695.
- National Park Service, 2005-2006. Changes in Airboat/ORV Trails within the East Everglades Addition Lands, (PI with T. Jordan) \$20,000.
- The Nature Conservancy, 2005-2006. Grand Bay-Banks Lake Stewardship Phase II Legacy Project: Current and Historic Vegetation, Water Control Structures and Disturbances Database Development (Co-PI with Liz Kramer) \$35,629.
- American Museum of Natural History, 2005. GIS Support for Interactive Geovisualizations, (PI) \$4,050.
- National Park Service, 2000-2005. ORV Trail Accuracy Assessment in Big Cypress National Preserve, (PI) \$110,990.
- National Park Service, 2004-2005. Airboat/ORV Trail Inventory for the East Everglades Addition Lands, (PI with T. Jordan) \$55,263.
- The Nature Conservancy, 2004. Spatial Data Inventory, Collection and Map Production for Savannah River Tidal and Salt Water Wetlands Restoration Workshop, The Nature Conservancy Coastal Georgia Office, (PI) \$5,000.
- The Wilderness Society, 2002-2004. Georgia Datasets for The Wilderness Society's National Land Acquisition Prioritization Program, (PI) \$67,500.
- U.S. Geological Survey, 2003-2004. Feature Extraction from Multimodal Sources to Support *The National Map*, (Co- PI with E.L. Usery), \$45,113.
- National Geospatial Intelligence Agency, 2001-2004. Optimization of Coastal Zone Databases using Multimodal Data, (Co-Principal Investigator with E.L. Usery and T.R. Jordan) \$410,317.
- National Park Service, 1998-2003. Digital Vegetation Maps for the Great Smoky Mountains National Park, (Co- PI with R. Welch) \$553,000.
- National Park Service, 1994-2000. Vegetation Map and Digital Database of South Florida National Park Service Lands to Assess Long-Term Effects of Hurricane Andrew, (Co-PI with R. Welch) \$881,495.
- National Aeronautics and Space Administration, 1998-1999. Enhanced Remote Sensing Capabilities for Integrated Assessments of Environmental Change: Center of Excellence in Applications of Remote Sensing to Regional and Global Integrated Environmental Assessments, (Co- PI with R. Welch, T. Jordan, J. Alberts and D. Coleman) \$282,995.
- National Oceanic and Atmospheric Administration, South Carolina Sea Grant Consortium, 1998. State-of-Knowledge: GIS Databases and Land Use/Cover Patterns for Georgia. (Co- PI with R. Welch) \$14,999.
- National Park Service, 1997-1998. Off-Road Vehicle Trail Database for Big Cypress National Preserve, (Co- PI with R. Welch) \$18,218.
- Environmental Protection Agency, 1995-1998. Change Analysis of Vegetation and Drainage Patterns near Lake Istokpoga, Florida, (Co- PI with R. Welch) \$43,796.
- National Oceanic and Atmospheric Administration, 1994-1997. Georgia Coast Land Cover and Habitat Change (1984-1994), (Co- PI with R. Welch, J. Alberts and A. Chalmers) \$37,987.
- National Oceanic and Atmospheric Administration, 1993-1994. GIS Modeling to Assess the Impact of Management Activities and Non-Point Source Pollution on Coastal Marshlands of the SINERR, (Co- PI with J. Alberts, A. Chalmers and R. Welch) \$37,266.

- National Science Foundation, 1992-1994. Geographic Database for the Salt Marsh Ecosystems of the Southeastern United States, (Co- PI with R. Welch, J. Alberts, A. Chalmers, B. Kjerfve and B. Michener) \$275,000.
- National Oceanic and Atmospheric Administration, 1990-1991. GIS Projections of Physical and Biotic Trends in the SINERR: 1953-1993, (Co-PI with R. Welch and J. Alberts) \$49,969.
- National Oceanic and Atmospheric Administration, 1989-1990. An Integrated Resource Database for the Sapelo Island National Estuarine Research Reserve (SINERR), (Co- PI with R. Welch and J. Alberts) \$46,708.

PEER-REVIEWED PUBLICATIONS (total 65+ under Remillard and Madden):

(Students for whom Madden is/was Major Advisor indicated with *)

In Progress and Submitted Manuscripts

- Presotto, A.*, C. Remillard*, N. Spagnoletti, R. Salmi, K. Stafford, R. Rodrigues dos Santos, W. Costa Ribeiro, **M. Madden**, D. Fragaszy, E. Visalberghi, P. Izar. Nonhuman primate cultures are threatened by land use changes in northeastern Brazilian, *Primates*, *in revision for resubmission*.
- Johnson, C., A. Aragon, M. Madden and S. Goodrick, The "Efficiency Concern": Exploring wildfire risks on heirs' property in Macon-Bibb County, Georgia, USA, using geospatial analysis, *Forest Policy and Economics*, submitted 20 August 2019.
- Presotto, A.*, R. Fayrer-Hosken, A. Remillard, N. O'Hare*, C. Simms, T. Jordan, L. Mu and M. Madden, Space use, travel distance and activity: Implications for female African elephants in Kruger National Park, South Africa, *Journal of Applied Geography*, submitted 07/31/2017.
- Collins, C., E. Carr, J. Corn, G. Hickling, **M. Madden**, A. Odoi, Predicting Spread and Estimating Risk for an Invasive Vertebrate Pest: Feral Swine in Arkansas, USA, *Journal of Wildlife Management*, in revision for resubmission.
- Çöltekin, A., S. Christophe, A. Devaux, A., C. Prettit, O. Lock, I. Besora i Vilardaga, S. Shukla, L. Herman, Z. Stachoň, P. Kubíček, C. Šašinka, D. Snopkov, M. Madden, S. Bernardes, I. Lochhead, N. Hedley and Z. Klippel, AR/VR/XR Research challenges and future direction, Invited Paper in, Li, S., S. Zlatanova, M.A. Brovelli and M. Sester (Eds.) Special Issue, State-of-the-Art in Spatial Information Science, *ISPRS International Journal of Geo-Information, in progress*.
- Madden, M., A. Presotto*, W. Langbauer, F. Osborn, M. Karidozo, R. Fayrer-Hosken, R. Parry, Elephant behavior and movement analysis related to Human-Elephant Conflict in Africa, Special Issue on Behavioral Landscape Ecology, In, *Current Landscape Ecology Report*, in progress.

Accepted, In Press and Published Peer-reviewed Articles and Book Chapters

Peer-reviewed Journals: (Student authors for whom I was Major Advisor* and served on their Committees**)

- Bernardes*, S., L. Manglass*, S.T. Bacchus** and **M. Madden**, Analysis and extent of Santa Fe River flooding in North Florida attributed to rainfall and wind damage associate with Hurricane Irma, *Journal of Geosciences and Environmental Protection*, accepted 1/23/2019.
- Presotto*, A., R. Fayrer-Hosken, C. Curry and **M. Madden**, 2019. Spatial mapping shows that some African Elephants use cognitive maps to naviate the core but not the periphery of their home ranges, *Animal Cognition*, 22(2): 251-263. https://doi.org/10.1007/s10071-019-01242-9

- O'Hare*, N., C.R. Carroll, L. Mu, T.R. Jordan and **M. Madden**. 2019. Amphibian distribution in the Georgia Sea Islands: Implications from the past and for the future. *Journal of North American Herpetology, in press* 8/30/2019.
- Presotto*, A., M.P. Verderane, L. Biondi, O. Mendonca-Furtado, N. Spagnoletti, **M. Madden,** P. Izar 2018. Intersection as key locations for bearded capuchin monkeys (*Sapajus libidinosus*) traveling within a route network, *Animal Cognition*, 21(3): 393-405. https://link.springer.com/article/10.1007/s10071-018-1176-0
- Singh**, K.K., J. Gray, **M. Madden** and R.K. Meentemeyer. 2018. The managed clearing: An overlooked landcover type in urbanizing regions? *PLOS ONE*, 13(2), 14 p. https://doi.org/10.1371/journal.pone.0192822
- Xu*, W., S. Bernardes*, S. Bacchus** and **M. Madden**. 2018. Management implications of aquifer fractures on ecosystem and habitat suitability for panthers in Southern Florida. *Journal of Geoscience and Environmental Protection*, 6(2): 184-208. DOI: 10.4236/gep.2018.62012, https://file.scirp.org/pdf/GEP_2018022814042672.pdf
- O'Hare*, N.K., and **M. Madden**. 2018. Herpetofaunal inventory of Wormsloe State Historic Site, Savannah, Georgia. *Southeastern Naturalist*, 17(1): 1-18.
- Wahid**, A. and **M. Madden**, 2017. Evaluation of environmental sensitivity of the coastal plains shoreline to oil spills: Southwestern Sinai coastal plain, Egypt, *Environmental and Earth Sciences Research Journal*, 4(5): 76-86. DOI: 10.18280/eesrj.040304.
- Wang*, M., **M. Madden** and X. Liu, 2017. Exploring the relationship between polycentric urban form and CO₂ emissions in 104 Chinese cities, *Journal of Urban Planning and Development, accepted 11 April 2017.* 143(4): DOI: 10.1061/(ASCE)UP.1943-5444.0000400.
- Wang*, M., M. Madden, I. Hendy, Estradivari and G.N. Ahmadia, 2017. Modeling projected changes of mangrove biomass in different climatic scenarios in the Sunda Banda Seascapes, International Journal of Digital Earth, 4(10): 457-468. http://dx.doi.org/10.1080/17538947.2016.1190411
- Xu*, W., R. Fayrer-Hosken, **M. Madden**, C. Simms, L. Mu and A. Presotto*, 2017. Coupling African elephant movement and habitat modeling for landscape availability-suitability-connectivity assessment in Kruger National Park, South Africa, *Pachyderm*, No. 58: 97-106. http://www.pachydermjournal.org/index.php/pachy/article/view/483
- Williams**, M., C. Stegall, **M. Madden** and J.M. Shepherd, 2017. Mapping the spatio-temporal evolution of irrigation in the Coastal Plain of Georgia, USA, *Photogrammetric Engineering and Remote Sensing*, 83(1): 57-67. DOI: 10.14358/PERS.83.1.57
 First Place 2017 ESRI Best Paper in GIS Award by American Society for Photogrammetry and Remote Sensing.
- Hernandez, S.M., C.N. Welch, V.E. Peters, E.K. Lipp, S. Curry, M.J. Yabsley, S. Sanchez, A. Presotto*, P. Gerner-Smidt, K. Hise, E. Hammond, W.M. Kistler, **M. Madden**, A.L. Corway, T. Kwan and J.J. Maurer, 2016. Urbanized white Ibises (*Eudocimus albus*) as carriers of Salmonella enterica of significance to public health and wildlife, *PLoS ONE*, 11(10), DOI: http://dx.doi.org/10.1371/journal.pone.0164402
- Xu*, W., S. Bernardes*, S.T. Bacchus and M. Madden, 2016. Mapped fractures and sinkholes in the Coastal Plain of Florida and Georgia to infer environmental impacts from aquifer storage and recover (ASR) and supply wells in the regional karst Floridan Aquifer System, *Journal of Geography and Geology*, 8(2): 76-110, Published 24 February 2016. http://dx.doi.org/10.5539/jgg.v8n2p76
- Remillard* C.M., **M. Madden**, J. Favors, L. Childs-Gleason, K. W. Ross, L. Rogers and M. L. Ruiz, 2016. Bridging the gap between NASA Earch Observations and decision makers through the NASA DEVELOP Program, *International Archives of Photogrammetry*,

- Remote Sensing and Spatial Information Science, Vol. XX, Part 6/W6: 145-148. DOI:10.5194/isprs-archives-XLI-B6-145-2016, Published 23 June 2016. http://www.int-arch-photogramm-remote-sens-spatial-inf-sci.net/XLI-B6/145/2016/isprs-archives-XLI-B6-145-2016.pdf
- Bernardes*, S. and **M. Madden**, 2016. Vegetation disturbance and recovery following a rare windthrow event in the Great Smoky Mountains National Park, *International Archives of Photogrammetry, Remote Sensing and Spatial Information Science*, Vol. XX, Part 8/W7: 571-575, DOI:10.5194/isprs-archives-XLI-B8-571-2016, Published 23 June 2016. http://www.int-arch-photogramm-remote-sens-spatial-inf-sci.net/XLI-B8/571/2016/
- Jordan, T.R., C.L. Goetcheus and M. Madden, 2016. Point cloud mapping methods for documenting cultural landscape features at the Wormsloe State Historic Site, Savannah, Georgia, USA, *International Archives of Photogrammetry, Remote Sensing and Spatial Information Science*, Vol. XLI-B5:277-280, DOI: 10.5194/isprs-archives-XLI-B5-277-2016, Published 23 June 2016.
 - http://www.int-arch-photogramm-remote-sens-spatial-inf-sci.net/XLI-B5/277/2016/
- Wahid**, A., M. Madden, F. Khalaf and I. Fathy, 2016. Geospatial analysis for the determination of hydro-morphological characteristics and assessment of flash flood potentiality in Arid Coastal Plains: A case in Southwestern Sinai, Egypt. *Earth Sciences Research Journal*, 20 (1): E1-E9, published 30 April 2016. DOI: 10.15446/esrj.v20n1.49624
- Chen, J., I. Dowman, S.Li, Z. Li, **M. Madden**, J. Mills, N. Paparoditis, F. Rottensteiner, M. Sester, C. Toth, J. Trinder, and C. Heipke, 2016. Information from imagery: ISPRS scientific vision and research agenda, *ISPRS Journal of Photogrammetry and Remote Sensing*. 115:3-21. http://dx.doi.org/10.1016/j.isprsjprs.2015.09.008
- Levy, B., S. Lenhart, C. Collins, J. Corn, **M. Madden**, R. Salinas, and W. Stiver, 2016. A Metapopulation model for feral hogs in Great Smoky Mountains National Park, *Natural Resource Modeling*, 29(1): 71-97. DOI:10.1111/nrm.12080, Published February 2016.
- Bacchus**, S.T., S. Bernardes*, W. Xu* and **M. Madden**, 2015. Fractures as preferential flowpaths for aquifer storage and recovery (ASR) injections and withdrawls: Implications for environmentally sensitive near-shore waters, wetlands of the Greater Everglades Basin and the regional karst aquifer system, *Journal of Geography and Geology*, 7(2): 177-155.
- Howard*, A.M., N. Nibbelink, S. Bernardes*, D.M. Fragaszy, and **M. Madden**, 2015. Remote sensing and habitat mapping for bearded capuchin monkeys (*Sapajus libidinosus*): landscapes for the use of stone tools, *Journal of Applied Remote Sensing*, 9(1): 96020, 1-18. DOI:10.1117/1.JRS.9.096020.
- Mauer, J., G. Martin, S. Hernandez, Y. Cheng, P. Gerner-Smidt, K. Hise, M.T. D-Angelo, D. Cole, S. Sanchez, **M. Madden**, S. Valeika, A. Presotto* and E. Lipp, 2015. Diversity and persistence of *Salmonella enterica* strains in rural landscapes in the Southeastern United States, *PLoS ONE*, 10(7): http://dx.doi.org/10.1371/journal.pone.0128937.
- Strother*, C., **M. Madden**, T.J. Jordan and A. Presotto, 2015. LiDAR detection of the ten tallest trees in the Tennessee portion of the Great Smoky Mountains National Park, *Photogrammetric Engineering and Remote Sensing*, 81(5): 25-31.
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- Allen, H.* and **M. Madden**, 2008. Geovisualization of Forest Dynamics: Hemlock Woolly Adelgid Damage in Great Smoky Mountains National Park, (Non Peer-reviewed Invited Paper) Geospatial Today. 6(12):40-43, available online at: http://emag.geospatialtoday.com/Index.aspx?issue=issue01.

- **Madden, M.** 2008. Stereocorrelation and Image Fusion: Manfred Ehlers at the University of Georgia, (Non Peer-reviewed Invited Paper), *In*, Jochen Schiewe and Michel Ulrich, Eds, *Geoinformatics Paves the Highway to Digital Earth*, Gi-Reports@IGF, Band 8, Institute for Geoinformatics and Remote Sensing, University of Osnabruck, Osnabruck, Germany, pp. 87-89.
- **Madden, M.**, 2007. ASPRS: Leader in GIScience for All, Presidental Address, (Non Peerreviewed Invited Paper), *Photogrammetric Engineering and Remote Sensing*, 73(7):750-754.
- **Madden, M.**, A. J. Hinley, D.M. Fragaszy, E.B. Ottoni, P. Izar, and E. Visalberghi, 2007. GIS habitat modeling related to capuchin monkey tool use (<u>Non Peer-reviewed Invited Paper</u>), *Geospatial Today*, 5(6):26-35.
- **Madden, M.** and Giraldo, M.*, 2005. Landscape modeling and geovisualization. (Non Peerreviewed Invited Paper), *In*, S. Nayak, Ed., *Geospatial Today*, 3(7):14-20.
- **Madden, M.**, 2003. Visualization and analysis of vegetation patterns in National Parks of the Southeastern United States. *In*, J. Schiewe, M. Hahn, M. Madden and M. Sester, Eds., *Proceedings of Challenges in Geospatial Analysis, Integration and Visualization II*, International Society for Photogrammetry and Remote Sensing Commission IV Joint Workshop, Stuttgart, Germany: 143-146, online at http://www.iuw.univechta.de/personal/geoinf/jochen/papers/38.pdf.
- **Remillard, M.** 1994. Geographic information systems in Ecology and Conservation. (<u>Invited Paper</u>), 1995 McGraw-Hill Yearbook of Science and Technology, McGraw-Hill, Inc., New York: 181-183.
- Welch, R., **M. Remillard** and J. Alberts. 1991. Integrated resource databases for coastal management. *GIS WORLD*, 4(3): 86-89.

EDITORIAL ACTIVTIES:

- Member, Editorial Board, 2018 present, *Geosfera Indonesia*, published by the Department of Geography Education at the University of Jember, a new (since 2018) Open Access, peer-review journal with focus on Geography Education, https://www.neliti.com/journals/geosfera-indonesia
- Member, Editorial Board, 2017 present, *SF Journal of Environmental and Earth Science*, ScienceForecast Publications, newly launched international, Open Access, peer-review journal, https://scienceforecastoa.com
- Member, Editorial Board, 2010 present, *International Journal of Health Geographics*, BioMed Center Part of Springer Nature, Impact Factor 2.270, http://ij-healthgeographics.biomedcentral.com/
- Member, Editorial Board, 2011-present, *ISPRS International Journal of Geo-Information*, MDPI AG, Switzerland, Impact Factor 0.651, http://www.mdpi.com/journal/ijgi
- Member, Editorial Board, 2010-present, *Geo-Spatial Information Science*, Taylor& Francis, United Kingdom, http://www.tandfonline.com/toc/tgsi20/current

Member, Editorial Board, ISPRS J. of Photogrammetry and Remote Sensing (1992 - 2005)

Associate Editor, Wetlands Ecology and Management (2010-2013)

Associate Editor, ISPRS J. of Photogrammetry and Remote Sensing (2008-2010).

Associate Editor, Wetlands, Journal of the Society of Wetlands Scientists (1997 - 2000)

REVIEWER AND EVALUATION ACTIVITIES:

Reviewer for Journals:

Annals of the Association of American Geographers, Applied Geography, Cartography and Geographic Information Science, Climate Research, Computers, Environment and Urban Systems, Ecohydrology, Ecological Applications, Ecology, Environmental Management, Forest Science, International Journal of Applied Earth Observation and Geoinformation, International Journal of GIScience, International Journal of Remote Sensing, International Journal for Health Geographics, ISPRS Journal of Photogrammetry and Remote Sensing, Journal of Environmental Management, Journal of Genocide, Journal of Wildlife Diseases, Landscape Ecology, Marine Technology Society Journal, Photogrammetric Engineering & Remote Sensing, Professional Geographer, Remote Sensing, Southeastern Geographer, Wetlands

Reviewer for Books:

ESRI, in progress. Essential Imaging for GIS Professionals, ESRI Publication.

Jensen, J.R. and Jensen, R.R., 2013. *Introductory Geographic Information Systems*, Pearson Prentice Hall, New Jersey, 400 p.

S.E. Gergel, S.E. and M.G. Turner, (Eds), 2002. *Learning Landscape Ecology: A Practical Guide to Concepts and Techniques*, Springer-Verlag, New York, 316 p.

Book Reviews:

Madden, M., 2016. Book Review for *Remote Sensing for Sustainability* by Qihao Weng, CRC Press, Taylor & Francis Group, Boca Raton, Florida.

Madden, M., 2016. Book proposal for *Beavers: Boreal Ecosystem Engineers* by Carol Johnston, Springer, New York, New York.

Madden, M., 2011. Review of *Principles of GIS* by John Jensen and Ryan Jensen, 12 Chapters + Glossary and Exercises, Pearson, Boston, Massachusetts

Remillard, M., 1992. Computer analysis of vegetation data. Review of *Computer Assisted Vegetation Analysis* by E. Feoli and L. Orloci (Eds), *Ecology*, 75(5): 1927.

Reviewer for Programs:

- Invited, by Dr. Ashutosh Limaye, Chief Scientist and Dr. Nancy Searby, NASA Applied Sciences Capacity Building Program Manager, Review Panel for NASA A.35 of ROSES-18 NRA NNH18ZDA001N0SERVIR Step-1 proposals, Washington, D.C., 25-27 March, 2019.
- Invited by Dr. Ross Meetenmeyer, Director, to join the External Advisory Board of the Center for Geospatial Analytics (CGA), North Carolina State University. Site visits on September 14, 2018 and 5 February 2019.
- Invited by Dr. Virginia Selz, Anerican Association for the Advancement of Science (AAAS), Synchronous Mapping of Coastal Habitat Change Using Multiple Unmanned Aerial Vehicles, UNC Inter-Institutional Planning Grant Program, 27 June, 2018.
- Invited by Dr. Courtney H. Thornton, Associate Vice President, Research and Graduate Education, University of North Carolina at Chapel Hill, External Review, Ph.D. Degree Program in Geospatial Analytics, North Carolina State University, January 11, 2017.
- Invited by Dr. Mary C. Watzin, Dean, College of Natural Resources, North Carolina State University, External Five-Year Review Panel, Center for Geospatial Analytics (CGA), North Carolina State University, December 21, 2015.
- Invited External Reviewer, Belgian Research Programme for Earth Observation, STEREO Support to the Exploitation and Research of Earth Observation data, Belgian Science Policy (BELSPO), Brussels, Belgium, 2011.
- **Invited** Member, Canada Foundation for Innovation Geomatics Expert Committee, evaluator for CFI proposals in Geomatics/Remote Sensing areas, 2009.

- Appointed, National Visiting Committee for the National Science Foundation (NSF) funded National Geospatial Technology Center, Delmar College, Corpus Christi, Texas, 2009-2012.
- Evaluator for NSF-funded project, "Development of a GIS Certification Program and Preparing for GIS Accreditation at North Carolina Central University (NCCU)", Geography and Earth Sciences Department, NCCU, 2006-2007.
- Reviewer for Australian Antarctic Science Program, 1998.
- Invited, by Dr. Ashutosh Limaye, Chief Scientist and Dr. Nancy Searby, NASA Applied Sciences Capacity Building Program Manager, Review Panel for NASA A.35 of ROSES-18 NRA NNH18ZDA001N0SERVIR Step-1 proposals, Washington, D.C., 25-27 March, 2019.
- Invited by Dr. Ross Meetenmeyer, Director, External Review Panel, Center for Geospatial Analytics (CGA), North Carolina State University, September 14, 2018 and 5 February 2019.
- Invited by Dr. Virginia Selz, Anerican Association for the Advancement of Science (AAAS), Synchronous Mapping of Coastal Habitat Change Using Multiple Unmanned Aerial Vehicles, UNC Inter-Institutional Planning Grant Program, 27 June, 2018.

Reviewer for Promotions and Nominations:

- Joseph Knight, promotion to Professor, Department of Forest Resources, University of Minnesota, September 2019.
- Caixia Wang, promotion to Associate Professor with tenure, Department of Geomatics, College of Engineering, Alaskan University Anchorage, September 2018.
- Qihao Weng, nomination for Association of American Geographers Distinguished Scholarship Award, 2018.
- John Iiames, external evaluation for promotion in the U.S. Environmental Protection Agency from a Research Biologist, GS 0401-13 to a Research Biologist, GS 0401-14, February 12, 2018.
- Stephen Leisz, external evaluation for Associate Professor position with the National Institute of Education, Nanyang Technological University, Singapore, January 2018.
- Gang Chen, promotion to Associate Professor with tenure, Department of Geography and Earth Sciences, University of North Carolina at Charlotte, September 2017.
- Desheng Liu, promotion to Full Professor, Department of Geography, The Ohio State University, September 2017.
- Helena Mitasova, Associate Director of Geovisualization in the Center for Geospatial Analytics at North Carolina State University nominated for the University Constorium of Geographic Information Science (UCGIS) 2017 Research Award, February 2017.
- Cuizhen (Susan) Wang, promotion to Full Professor in Department of Geography, University of South Carolina, January 2017.
- Carol Johnston, nomination for Distinguished Professor, South Dakota State University, November 2016.
- Greg McDermid, promotion to Full Professor in Department of Geography, University of Calgary, October 2016.
- Meredith Welch-Devine, promotion to Senior Academic Professional, Graduate School, University of Georgia, October 2016.
- Liem Tran, promotion to Full Professor, Department of Geography, University of Tennessee, August 2016.

- E. Lynn Usery, promotion to Senior Scientist at U.S. Geological Survey, U.S. Department of Interior, February 2016.
- Pinliang Dong, promotion to Full Professor, Department of Geography, University of North Texas, September 2015.
- Thomas Allen, promotion to Full Professor, Department of Geography, Planning and Environment, East Carolina University, September 2014.
- E. Lynn Usery, promotion to Senior Scientist at U.S. Geological Survey, U.S. Department of Interior, February 2014.
- Arie Croitoru, promotion to Associate Professor with tenure, Department of Geography and Geoinformation Science, George Mason, University, October 2013.
- Shailesh Nayak, nomination as Fellow of the Indian National Science Academy, National Geophysical Research Institute, Hyderbad, India, July 2013.
- WenZhong (John) Shi, nomination for Chair Professor of Structural Engineering, The Hong Kong Polytechnic University, June 2013.
- George Mountrakis, promotion to Associate Professor with Continuing Appointment (tenure), Department of Environmental Resourses Engineering, State University of New York, December 2012.
- Anthony Stefanidis, promotion to Full Professor, Department of Geography and Geoinformation Science, George Mason, University, October 2012.
- Le Wang, promotion to Full Professor, Department of Geography, University at Buffalo, State University of New York, September 2012.
- Qian Yu, promotion to Associate Professor with tenure, Department of Geosciences, University of Massachusetts, February 2012.
- John Qu, promotion to Full Professor, Department of Geography and Geoinformation Science, George Mason, University, December 2011.
- Dar Roberts, Nomination to Professor VI, Department of Geography, University of California at Santa Barbara, October 2011.
- Yanfen Li, promotion to Associate Professor with tenure, Department of Geology and Geography, Northwest Missouri State University, October 2011.
- Monika Moskal, promotion to Associate Professor with tenure, School of Forest Resources, University of Washington, June 2011.
- Lindi Quackenbush, promotion to Associate Professor with tenure, Department of Environmental Resources Engineering, State University of New York, February 2011.
- Daniel Civco, nomination for Board of Trustees Distinguished Professor, University of Connecticut, January 2011.
- John Qu, promotion to Full Professor, Department of Geography and Geoinformation Science, George Mason University, September 2011.
- Jeong Chang Song, promotion to Full Professor, Department of Geosciences, University of West Georgia, September 2010.
- Geoffrey Hay, promotion to Associate Professor with tenure, Department of Geography, University of Calgary, March 2010.
- Maribeth Price, promotion to Full Professor, South Dakota School of Mines and Technology, November 2009.
- Pinliang Dong, promotion to Associate Professor with tenure, Department of Geography, University of North Texas, September 2009.
- Anthony Filippi, promotion to Associate Professor with tenure, Department of Geography, Texas A&M University, September 2009.
- Soren Popescu, promotion to Associate Professor with tenure, Department of Ecosystem Science and Management, Texas A&M University, August 2008.

• Nancy Glenn, promotion to Associate Professor with tenure, Department of Geosciences, Idaho State University, October 2006.

TECHNICAL PAPERS AND REPORTS:

- O'Hare, N.K., S.D. Healy, D.L. Cotten, B.P. Adams, S. Bernardes, T.R. Jordan, and M. Madden, 2018. Vegetation mapping at Timucuan Ecological and Historic Preserve: Photointerpretation key and vegetation map. Natural Resource Report NPS/SECN/NRR—2016/XXX. National Park Service, Fort Collins, Colorado, in press.
- Cotten, D.L., B.P. Adams, N.K. O'Hare, S. Bernardes, T.R. Jordan, and **M. Madden**, 2018. *Vegetation mapping at Canaveral National Seashore: Photointerpretation key and vegetation map.* Natural Resource Report NPS/SECN/NRR—2016/XXX. National Park Service, Fort Collins, Colorado, *in press*.
- Healy, S.D., D.L. Cotten, B.P. Adams, N.K. O'Hare, S. Bernardes, T.R. Jordan, and M.
 Madden, 2018. Vegetation mapping at Fort Matanzas National Monument:
 Photointerpretation key and vegetation map. Natural Resource Report NPS/SECN/NRR—2016/XXX. National Park Service, Fort Collins, Colorado, in press.
- Cotten, D.L., S.D. Healy, B.P. Adams, N.K. O'Hare, S. Bernardes, T.R. Jordan, and M. Madden, 2018. *Vegetation mapping at Castillo de San Marcos: Photointerpretation key and vegetation map.* Natural Resource Report NPS/SECN/NRR—2016/XXX. National Park Service, Fort Collins, Colorado, *in press*.
- Cotten, D.L., S.D. Healy, B.P. Adams, N.K. O'Hare, S. Bernardes, T.R. Jordan, and M. Madden, 2018. Vegetation mapping at Fort Caroline National Memorial:

 Photointerpretation key and vegetation map. Natural Resource Report NPS/SECN/NRR—2014/XXX. National Park Service, Fort Collins, Colorado, in press.
- Cotten, D.L., B.P. Adams, N.K. O'Hare, S. Bernardes, T.R. Jordan, and **M. Madden**, 2018. *Vegetation mapping at Chattahoochee River National Recreation Area: photointerpretation key and final vegetation map* – Final Report. Natural Resource Report NPS/SECN/NRR—2014/XXX. National Park Service, Fort Collins, Colorado, *in press*.
- Cotten, D.L., B.P. Adams, N.K. O'Hare, S. Bernardes, T.R. Jordan, and **M. Madden**, 2018. Vegetation mapping at Horseshoe Bend National Military Park: Photointerpretation key and vegetation map. Natural Resource Report NPS/SECN/NRR—2014/XXX. National Park Service, Fort Collins, Colorado. (Task Agreement P13AC01319), in press.
- Cotten, D.L., B.P. Adams, N.K. O'Hare, S. Bernardes, T.R. Jordan, and **M. Madden**, 2018. Vegetation mapping at Ocmulgee National Monument: Photointerpretation key and vegetation map. Natural Resource Report NPS/SECN/NRR—2014/XXX. National Park Service, Fort Collins, Colorado, in press.
- Madden, M., T.R. Jordan, S. Bernardes and B. Adams, 2018. *Accuracy Assessment of Marine Habitat Mapping of the Sapelo Island National Estuarine Research Reserve (SINERR)*, Final Report to Georgia Department of Natural Resources and National Oceanic and Atmospheric Administration, February 15, 2018, 33 pages.
- Bernardes, S., C. Burda, T. Jordan, **M. Madden**, D. Oh, X. Yao, D. Barger, J. Hunter and C. Watson, 2017. *Keeping the Promise: Planning for the Future of the Blue Ridge Parkway, NPCA's Conservation Alternative for the Management of Secondary Roads Intersections*, Final Report to National Parks Conservation Association, Knoxville, Tennessee, 48 pages.
- Jordan, T.R., **M. Madden**, B. Yang and X. Yao, 2015. *Keeping the Promise: Planning the Future of the Blue Ridge Parkway Transportation Implementation Planning and Scenario Modeling*,

- Center for Geospatial Research, Department of Geography, University of Georgia Final Report to the National Parks Conservation Association (NPCA), Knoxville, Tennessee, 27 p.
- Jordan, T. R., M. Madden, B. P. Adams, D. L. Cotten, and N. K. O'Hare. 2014. Vegetation mapping at Horseshoe Bend National Military Park: photointerpretation key and draft vegetation map. Natural Resource Report NPS/SECN/NRR. National Park Service, Fort Collins, Colorado. Southeast Coast Network, Cooperation Agreement Number P13AC00443 (Task Agreement P13AC01319). 96 p.
- Jordan, T. R., M. Madden, N. K. O'Hare, D. L. Cotten, and B. P. Adams. 2014. Vegetation mapping at Chattahoochee River National Recreation Area: photointerpretation key and draft vegetation map. Final Report. Natural Resource Report, National Park Service, Fort Collins, Colorado. Southeast Coast Network, Cooperation Agreement Number P13AC00443 (Task Agreement P13AC01319). 159 p.
- Jordan, T.R., M. Madden, D.L. Cotten, B.P. Adams and N.K. O'Hare, 2014. Vegetation Mapping at Ocmulgee National Monument: Photointerpretation Key and Draft Vegetation Map. Final Report to U.S. Department of Interior, National Park Service, Southeast Coast Network, Cooperation Agreement Number P13AC00443 (Task Agreement P13AC01319). 72 p.
- Jordan, T. and M. Madden, 2013. Digital Vegetation Database and Map for Blue Ridge Parkway, Final Report to the U.S. Department of Interior, National Park Service, Cooperative Agreement Number H5028-01-0651, Center for Remote Sensing and Mapping Science, The University of Georgia, Athens, GA, 108p.
- Jordan, T., M. Madden, B. Yang, J.B. Sharma and S. Panda, 2011. Acquisition of LiDAR for the Tennessee Portion of Great Smoky Mountains National Park and the Foothills Parkway, Final Report to the U.S. Geological Survey National Mapping Program, Contract No. G10AC0015, Center for Remote Sensing and Mapping Science, Department of Geography, University of Georgia, Athens, GA, 50 p.
- Bernardes, S., Howard Eury, A., Presotto, A., **Madden, M.**, Jordan, T., Fragaszy, D. M., Izar, P., et al., 2011. An agent based modeling approach for representing capuchin (*Sapajus spp.*) behavior in Brazil. *Proceedings of the ASPRS 2011 Annual Conference, American Society for Photogrammetry and Remote Sensing*, Milwaukee, Wisconsin, 7 p.
- Jordan, T. and M. Madden, 2010. Digital Vegetation Maps for National Park Service Cumberland-Piedmont Inventory and Monitoring Network: Abraham Lincoln Birthplace, Carl Sandburgh Home National Historic Site, Cowpens National Battlefield, Cumberland Gap National Historic Park, Fort Donaldson National Battlefield, Guildford Courthouse National Military Park, Little River Canyon National Preserve, Ninety Six National Historic Site, Stones River National Battlefield, Chickamauga and Chattanooga National Military Park, Kings Mountain National Military Park, Mammoth Cave National Park, Russell Cave National Monument and Shiloh National Military Park, Final Report to the U.S. Dept. of Interior, National Park Service, Cooperative Agreement Number H5028-01-0651 and H5000-03-5040 Task No. J2113-05-5004, Center for Remote Sensing and Mapping Science, Univ. of Georgia, Athens, GA, 175 p.
- Jordan, T. and M. Madden, 2010. Sampling Strategy for Accuracy Assessment of Vegetation Databases for Parks in the Appilachian Highlands Inventory and Monitoring Network, Contract No. J2116-06-003/H5000-03-5040 Center for Remote Sensing and Mapping Science, The University of Georgia, Athens, GA, 16 p.
- Jordan, T. and **M. Madden**, 2009. Vegetation Databases, Orthoimages and Buffer Area Landcover in Four National Park Units of the Cumberland Piedmont Network, Cooperative Agreement H5028-0-0651, Contract No. J2116-06-003/H5000-03-5040 Center for Remote Sensing and Mapping Science, The University of Georgia, Athens, GA., 23 p.
- Jordan, T. and **M. Madden**, 2009. *Digital Vegetation Maps for Big South Fork National River & Recreational Area*, Final Report to the U.S. Department of Interior, National Park Service,

- Cooperative Agreement Number H5028-01-0651, Center for Remote Sensing and Mapping Science, The University of Georgia, Athens, GA, 86 p.
- Jordan, T. and M. Madden, 2009. Digital Vegetation Maps for Obed Wild and Scenic River, Final Report to the U.S. Department of Interior, National Park Service, Cooperative Agreement Number H5028-01-0651, Center for Remote Sensing and Mapping Science, The University of Georgia, Athens, GA., 18 p.
- Madden, M., T. Jordan and J. Masour, 2009. Orthoimages and Forest-Agriculture-Urban Conversion 1938-1980 for the Chattahoochee River National Recreation Area, Final Report to the U.S. Department of Interior, National Park Service, Public Service Cooperative Agreement Number P534007A185, Center for Remote Sensing and Mapping Science, The University of Georgia, Athens, GA, 46 p.
- Madden, M., T. Jordan and J. Masour, 2009. Assessing Remote Sensing Inputs to the Eglin Air Force Base Ecosystem Condition Mode, Final Report to The Nature Conservancy, Contract Number Eglin-091807, Center for Remote Sensing and Mapping Science, The University of Georgia, Athens, GA, 41 p.
- Jordan, T. and **M. Madden**, 2008. *Digital Vegetation Maps for National Park Service Cumberland-Piedmont Inventory and Monitoring Network: Cumberland Gap National Park*, Final Report to the U.S. Department of Interior, National Park Service, Cooperative Agreement Number H5028-01-0651, Center for Remote Sensing and Mapping Science, The University of Georgia, Athens, GA, 105 p.
- Rutchey, K., T.N. Schall, R.F. Doren, A. Atkinson, M.S. Ross, D.T. Jones, M. Madden, L. Vilchek, K.A. Bradley, J.R. Snyder, J.N. Burch, T. Pernas, B. Witcher, M. Pyne, R. White, T.J. Smith III, J. Sadle, C.S. Smith, M.E. Patterson, and G.D. Gann, 2006. Vegetation Classification for South Florida Natural Areas, U.S. Geological Survey, Open-File Rpt 2006-1240, Saint Petersburg, Florida, 142 p.
- Squire, Amy, L. Kramer and **M. Madden**, 2006. *Current and Historic Land Cover of Grand Bay Banks Lake (GBBL) Ecosystem in Lanier and Lowndes Co., GA*, Final Report to The Nature Conservancy, Natural Resources Spatial Analysis Laboratory (NARSAL), Institute of Ecology and Center for Remote Sensing and Mapping Science (CRMS), Dept. of Geography, University of Georgia, Athens, GA, 72 p.
- Jordan, T., M. Madden and L. Manglass, 2006. Airboat/ORV Trail Inventory for the East Everglades Addition Lands, Final Report to the U.S. Department of Interior, National Park Service, Cooperative Agreement Number H5000-03-5040, Center for Remote Sensing and Mapping Science, The University of Georgia, Athens, GA, 25 p.
- **Madden, M.** and T. Jordan, 2005. Geovisualization of vegetation patterns in national parks of the southeastern US, *In*, E. Stefanakis, M.P. Peterson, C. Armenakis and V. Delis (Eds.), *Proceedings First International Workshop on Geographic Hypermedia*, April 4-5, 2005, Denver, CO, CD-ROM publication, 7 p.
- **Madden, M.** and T. Jordan, 2004. Database development and analysis for decision makers in National Parks of the Southeast, *In, Proceedings of the American Society for Photogrammetry and Remote Sensing Fall Conference*, September 12-16, 2004, Kansas City, MO, CD-ROM publication, 10 p.
- Madden, M., R. Welch, T. Jordan, P. Jackson, R. Seavey and J. Seavey, 2004. *Digital Vegetation Maps for the Great Smoky Mountains National Park*, Final Report to the U.S. Dept. of Interior, National Park Service, Cooperative Agreement Number 1443-CA-5460-98-019, Center for Remote Sensing and Mapping Science, The University of Georgia, Athens, Georgia, 112 p.
- **Madden, M.** and R. Welch, 2004. Fire fuel modeling in National Parks of the Southeast. *In*, *Proceedings of the Annual American Society for Photogrammetry and Remote Sensing*, May 23-28, Denver, Colorado, CD-ROM publication, 4 p.

- **Madden, M.**, 2003. Report on the 2003 UCGIS Summer Assembly, Pacific Grove, California. *Photogrammetric Engineering and Remote Sensing*, 69 (11): 1101-1102.
- Welch, R., S. Fleming, T. Jordan and **M. Madden**, 2003. *Assessing the Ability of Commercial Sensors to Satisfy Littoral Warfare Data Requirements*, Final Report to National Imagery and Mapping Agency (NIMA), Cooperative Agreement Number NMA 201-00-1-1006, Center for Remote Sensing and Mapping Science University of Georgia, Athens, GA: 33 p.
- **Madden, M.**, 2002. Report on the Joint ISPRS-SDH-CIG International Symposium and Exhibition: Geospatial Theory, Processing and Applications. *Photogrammetric Engineering and Remote Sensing*, 68 (10): 981-982.
- **Madden, M.**, 2002. Report on the 2002 UCGIS Summer Assembly. *Photogrammetric Engineering and Remote Sensing*, 68 (10): 983.
- Stober, Q.J., K. Thorton, R. Jones, J. Richards, C. Ivey, R. Welch, **M. Madden**, J. Trexler, E. Gaiser, D. Scheidt and S. Rathbun, 2001. *South Florida Ecosystem Assessment: Phase I/II Everglades Stressor Interactions: Hydropatterns, Eutrophication, Habitat Alteration and Mercury Contamination*, U.S. Environmental Protection Agency, Region 4 Science and Ecosystem Support Division, EPA 904-R-002, 63 p and CD-ROM.
- Welch, R., **M. Madden** and T. Litts, 2001. *Off-Road Vehicle Trail Accuracy Assessment: Big Cypress National Preserve (BICY)*, Final Report to the U.S. Dept. of Interior, National Park Service, Cooperative Agreement Number 5120-00-001, Center for Remote Sensing and Mapping Science, University of Georgia, Athens, GA, 35 p.
- Welch R. and **M. Madden**, 2000. *Aerial Photo Vegetation Assessment in the Everglades Ecosystem*. Final Report to the U.S. Dept. of Interior, National Park Service, Cooperative Agreement Number 5280-4-9006, CRMS, UGA, Athens, GA: 36 p.
- Welch, R. and **M. Madden**, 1999. Vegetation Map and Digital Database of South Florida National Park Service Lands to Assess Long-Term Effects of Hurricane Andrew. Final Report to the U.S. Dept. of Interior, National Park Service, Cooperative Agreement Number 5280-4-9006, CRMS, UGA, Athens, GA: 43 p.
- Welch, R. and **M. Madden**, 1998. *Off-Road Vehicle Trail Database for Big Cypress National Preserve*. Final Report to the U.S. Dept. of Interior, National Park Service, Cooperative Agreement Number 5280-7-9002, Center for Remote Sensing and Mapping Science, The University of Georgia, Athens, GA: 30 p.
- Welch, R., M. Madden, J. Alberts and A. Chalmers, 1998. Georgia Coast Land Cover and Habitat Change (1984-1993): NOAA Coast Watch Change Analysis Project (C-CAP), Final Report to the US Dept. of Commerce, National Oceanic and Atmospheric Administration, Marine and Estuarine Management Division, Contract # NA46RG0452, Center for Remote Sensing and Mapping Science, University of Georgia, Athens, Georgia: 33 p.
- Welch, R., **M. Remillard** and R. Doren, 1998. High resolution digital databases for the Florida Everglades, *Technical Papers ASPRS/RTI Annual Convention*, Tampa, FL, pp. 650-651.
- Welch, R., **M. Remillard** and S. Hu, 1997. A GIS based multimedia approach to vegetation analysis, *Technical Papers ACSM/ASPRS Annual Convention*, Seattle, WA, 2:51-52.
- Welch, R., M. Remillard, J. Alberts, A. Chalmers, 1997. GIS Modeling to Assess the Impact of Management Activities and Non-Point Source Pollution on Coastal Marshlands of the SINERR, Final Report to the US Dept. of Commerce, National Oceanic and Atmospheric Administration, Marine and Estuarine Management Division, Contract # NA37OR0168, Center for Remote Sensing and Mapping Science, University of Georgia, Athens, GA: 35 p.
- Welch, R., M. Remillard, J. Alberts, A. Chalmers, F.J. Vernberg and B. Kjerfve, 1996. *Geographic Database for the Saltmarsh Ecosystem of the Southeastern United States*, Final Report to the National Science Foundation, Contract # BIR-9119725, Center for Remote Sensing and Mapping Science, University of Georgia, Athens, GA: 42 p.

- **Remillard M.** and R. Welch, 1996. *Remote Sensing and GIS for Landscape Assessment of Fuel Hazard in Yellowstone National Park*, Final Report to the US Forest Service, Southeastern Forest Experiment Station, Contract # 12-11-008-876 Supplement 159, Center for Remote Sensing and Mapping Science, University of Georgia, Athens, GA: 37 p.
- Welch, R. and **M. Remillard**, 1996. *Remote Sensing and GIS Technologies for Monitoring Grass Carp Control of Macrophytes*, Final Report to the US Army Corps of Engineers, Waterways Experiment Station, Contract # DACW39-90-K-0005, Center for Remote Sensing and Mapping Science, University of Georgia, Athens, GA: 42 p.
- Welch, R. and **M. Remillard**, 1995. Commission IV Mapping and Geographic Information Systems, Annual Report, In, 1995 International Society for Photogrammetry and Remote Sensing Annual Report, Compiled and edited by L.W. Fritz, pp. 25-30.
- Welch, R. and **M. Remillard**, 1994. Commission IV Mapping and Geographic Information Systems, Annual Report, In, 1994 International Society for Photogrammetry and Remote Sensing Annual Report, Compiled and edited by L.W. Fritz, pp. 28-34.
- Welch, R. and **M. Remillard**, 1993. Commission IV Mapping and Geographic Information Systems, Annual Report, In, 1993 International Society for Photogrammetry and Remote Sensing Annual Report, Compiled and edited by L.W. Fritz, pp. 31-37.
- Welch, R., **M. Remillard** and J. Alberts, 1992. *GIS Projections of Physical and Biotic Trends in the SINERR: 1953-1993*, Final Report to the US Dept. of Commerce, National Oceanic and Atmospheric Administration, Marine and Estuarine Management Division, Contract # NA90AAh-CZ659, CRMS, UGA, Athens, GA: 25 p.
- Welch, R., M. Remillard and J. Alberts, 1991. *An Integrated Resource Database for the Sapelo Island National Estuarine Research Reserve (SINERR)*, Final Report to U.S. Dept. of Commerce, National Oceanic and Atmospheric Administration, Marine and Estuarine Management Division, Contract # NA89AA-D-CZ024, Center for Remote Sensing and Mapping Science, UGA, Athens, GA: 42 p.
- Welch, R. and **M. Remillard**, 1991. Remote Sensing/GIS for water resource management applications in the Southeast. *Proceedings of the 1991 Georgia Water Resources Conference*, Athens, GA, 282-284.
- Welch, R. and **M. Remillard**. 1986. Aquatic Macrophyte Distributions in Lake Marion, South Carolina: June and September 1985. Final Report to SC Dept. of Health and Environmental Control, Contract # EQ-5-427, and US Environmental Protection Agency, Contract # 5R-1301-NAEX, Laboratory for Remote Sensing and Mapping Science, The University of Georgia, Athens, GA. 15 p.
- Welch, R., **M. Remillard**, S.S. Fung and R. Slack. 1986. Monitoring aquatic vegetation and water quality with a geographic information system. *Proceedings of the Geographic Information Systems Workshop*, ASPRS, Falls Church, VA: 302-303.
- Welch, R., S.S. Fung and M. Remillard. 1985. *Aquatic Macrophyte Distributions in Lake Marion, South Carolina: 1983- 1984.* Final Report to Lockheed Engineering and Management Services Company, Inc., Contract # 68-03-3245, Laboratory for Remote Sensing and Mapping Science, UGA, Athens, GA. 18 p.
- Bogucki, D.J., G.K. Gruendling, E.B. Allen, K.B. Adams and **M. Remillard**. 1986. Photo interpretation of historical (1948-1985) beaver activity in the Adirondacks, *Technical Papers of the ASPRS-ACSM Fall Convention*, Anchorage, AK: 299-308.
- Welch, R., S.S. Fung and **M. Remillard**. 1986. *Changes in the Distribution of Aquatic Macrophytes: Lake Marion, South Carolina 1972-1984*. Final Report to Lockheed Engineering and Management Services Company, Inc., Contract # 68-03-3245, Laboratory for Remote Sensing and Mapping Science, University of Georgia, Athens, GA. 16 p.

Barber, E., D.J. Bogucki, G.K. Gruendling and **M. Madden**. 1978. Historical land use changes and impacts in Lake Champlain wetland. Technical Report #8, *Lake Champlain Basin Study*, New England River Basins Commission, Burlington, VT. 80 p.

CONFERENCES AND SPECIAL SESSIONS ORGANIZED:

- Organized and moderated two sessions with Karl Brown (National Park Service), National Park Service Vegetation Mapping Inventory Program I and II, American Society for Photogrammetry and Remote Sensing (ASPRS) Conference, Denver, Colorado, 28-30 January, 2019.
- Organized and moderated two sessions, NASA DEVELOP National Projects I and II, Education & Professional Development Committee and the Early Career Professionals Council, American Society for Photogrammetry and Remote Sensing (ASPRS) Conference, Denver, Colorado, 28-30 January, 2019.
- Member International Advisory Committee for the Fifth International Workshop on Earth Observation and Remote Sensing Applications (EORSA 2018) jointly organized by Xi'an University of Science and Technology, and Chang'an University, Xi'an, Shaanxi Province, China, June 18-20, 2018.
- Organizing two sessions of the International Society for Photogrammetry and Remote Sensing (ISPRS) Technical Commission IV Symposium for Working Group 6, Spatial Data Infrastructure: Internet of Things and Spatial Decision Support, International Society for Photogrammetry and Remote Sensing, Delft, The Netherlands, 1-5 October 2018.
- Member of Scientific Committee for the GEOBIA 2018 Conference, 21-22 June, 2018, Montpellier, France.
- Organized and Moderated two Special Sessions, Emerging Technologies in Education and Outreach I and II, 10 oral presentations, American Society for Photogrammetry and Remote Sensing (ASPRS) Conference, Denver, Colorado, 5-7 January, 2018.
- Organized and Moderated Special Session, National (ASPRS) and International (ISPRS)
 Perspectives of Geospatial Education, Training and Professional Development with Focus on
 SDI and Decision Support, 7 Invited panel presenters, American Society for
 Photogrammetry and Remote Sensing (ASPRS) Imaging and Technological Forum (IGTF),
 Baltimore, Maryland, 11-16 March, 2017.
- Co-Organizer with Cuizhen (Susan) Wang, Special Session entitled, "Remote Sensing of Coastal Wetlands in the U.S. Siuteast: Past, Current and Future", Southeast Division of American Association of Geographers, 20-22 November 2016.
- International Scientific Committee, GEOBIA 2016, Solutions & Synergies, Geo-Information Science and Earth Observation (ITC), University of Twente, Enschede, Netherlands, September 2016.
- Organizing Committee, International Society for Photogrammetry and Remote Sensing (ISPRS) Congress, Prague, The Czech Republic, 12-19 July, 2016. http://www.isprs2016-prague.com/
- Organizing Committee, International Society for Photogrammetry and Remote Sensing (ISPRS) Geospatial Week Conference, La Grande Motte, France, 28 September 2 October, 2015. http://www.isprs-geospatialweek2015.org/
- Organizing Committee with Xiaobai Yao, Bin Jiang and Liu Ye, International Conference on Location-based Social Media: Geosocial Analysis and Modeling of Social Media Data, Athens, Georgia, March 12-14, 2015. http://research.franklin.uga.edu/iclsm/
- Technical Program Co-chair with T. Jordan, ASPRS Annual Conference, Louisville, Kentucky, March, 23-28, 2014.

- Advisory Committee Member, Second International Workshop on Earth Observation and Remote Applications (EORSA2012), Shanghai, China, June 8-11, 2012
- Advisory Committee Member, International Workshop on Earth Observation and Remote Applications (EORSA2012), Shanghai, China, June 8-11, 2012
- Co-Organizer with Minna Lonnqvist, Special Session entitled, "Conference on Science and Technology in Archaeology (CIPA) and ISPRS Commission IV 3D Dynamic Landscape Visions for Cultural Heritage/Archaeology", XXII ISPRS Congress, Melbourne, Australia, August 24-September 3, 2012.
- Organizer with Working Group Chairs/Co-chairs of 17 ISPRS Commission IV Technical Sessions held at XXII ISPRS Congress, Melbourne, Australia, August 24-September 3, 2012.
- Co-organizer with Rakesh Malhotra and Manos Baltsavias, ISPRS Student Consortium Summer School, Airborne LiDAR Collection, Processing and Applications, University of North Carolina at Fayetteville, July 30 August 6, 2011.
- Technical Program Co-chair, Joint ISPRS Commission IV Symposium, AutoCarto and ASPRS Fall Specialty Conference, Orlando, Florida, November 15-19, 2010.
- Co-organized with Sarah Ross, President of Wormsloe Institute for Environmental History, special session of U.S. International Association of Landscape Ecology Conference, Athens, Georgia, April 5-8, 2010.
- Co-organized with Karl Brown, Head, NPS Vegetation Inventory Program, two special sessions for the American Society for Photogrammetry and Remote Sensing 2009 Annual Conference, Baltimore, Maryland, March 9-13, 2009. "National Park Service Vegetation Inventory: Lessons Learned" (Parts 1 and 2). Served as moderator for session II.
- Program Committee, International Society for Optical Engineering (SPIE) Conference, Remote Sensing for Environmental Monitoring, GIS Applications and Geology, 2008 and 2009, Berlin Germany.
- Scientific Program Committee, High-Resolution Earth Imaging for Geospatial Information, International Society for Photogrammetry and Remote Sensing (ISPRS) Hannover Workshop, Hannover, Germany, June 2-5, 2009.
- International Advisory Committee, Indian National Cartographic Association (INCA) XXVII International Congress on Collaborative Mapping & Space Technology, Gandhinagar, Gujarat, India, November 4-5, 2008,
- Scientific Committee, GEOBIA 2008, Pixels, Objects, Intelligence: Geo-Object Based Image Analysis for the 21st Century, Univ. of Calgary, Canda, Aug. 6-7, 2008.
- Co-organizer of "Visualization and Exploration of Geospatial Data", International Society for Photogrammetry and Remote Sensing (ISPRS) Joint Workshop held June 27-29, 2007, Stuttgart, Germany, Workshop web site at: http://www.igf.uni-osnabrueck.de/isprs/isprs wg 44 meetings.htm.
- Scientific Committee, MDSGEO'06, International Workshop on Modern Decisions Support in Geographical Domains, Thessaloniki, Greece, September 2-3, 2006.
- Scientific Committee, Bridging Remote Sensing and GIS, First International Conference on Object-based Image Analysis, Salzburg, Austria, July 4-5, 2006.
- Organized a half-day workshop at the IX International Congress on Ecology (INTECOL) 2005 held in Montreal, Canada August 7, 2005 entitled, "Community to the Globe: Landscape Analysis using Geospatial Tools". Workshop consists of presentations and demonstrations of visualization software by 12 invited speakers with 30 participants. Resulted in a book contract with Springer Verlag to publish papers in "Geospatial Tools for Landscape Analysis: Community to the Globe" in 2008.
- Organized four special sessions at the American Society for Photogrammetry and Remote Sensing 2005 Annual Conference, Baltimore, Maryland, March 7-11, 2005. Joint ASPRS

- GIS Division ISPRS Commission IV Working Group 4 "Landscape Modeling, Analysis and Visualization" (Part 1, 2, 3 and 4). Served as moderator for two sessions.
- Technical Program Co-Chair, Images to Decisions: Remote Sensing Foundations for GIS Applications, American Society for Photogrammetry and Remote Sensing 2004 Fall Conference, Kansas City, Missouri, September 12-16, 2004. Technical Program included 8 Preconference Workshops, 10 Tutorial Presentations, 5 Keynote Speakers, 21 Oral Technical Sessions (75 papers) and one Poster Session (17 posters). Served as moderator for three sessions.
- Program Committee, International Society for Optical Engineering (SPIE) Conference Remote Sensing for Environmental Monitoring, GIS Applications and Geology IV, September 14-16, 2004, Maspalomas, Gran Canaria, Spain.
- Organized three special sessions at the American Society for Photogrammetry and Remote Sensing 2004 Annual Conference: 1) Bridging GIS and Spatial Analysis, Served as moderator; 2) ISPRS Commission IV Working Group 6 "Landscape Modeling and Visualization", Served as moderator; and 3) GIS and Fire Science. Denver, Colorado May 23-28, 2004.
- Co-organizer of "Challenges in Geospatial Analysis, Integration and Visualization II", International Society for Photogrammetry and Remote Sensing (ISPRS) Joint Workshop held September 8-9, 2003, Stuttgart, Germany with 78 participants from 28 countries. Proceedings in CD-ROM format and also are accessible through the internet Workshop web site at: http://www.iuw.univechta.de/personal/geoinf/jochen/isprs03.htm.
- Organized four special sessions at the American Society for Photogrammetry and Remote Sensing 2003 Annual Conference, Anchorage, Alaska, May 5-9, 2003: GIS Spatial Analysis and Landscape Ecology, Web-based GIS, ISPRS Working Group IV/6 Landscape Modeling and Visualization (Sessions 1 and 2). Served as moderator for three of these sessions.
- Organizing Committee, "Visualization and Animation of Landscape", International Society for Photogrammetry and Remote Sensing (ISPRS) Joint Workshop, organized by ISPRS Working Group V6 (Visualization and Animation) held Feb. 26-26, 2002, Kunming, China.
- Organizer of "Challenges in Geospatial Analysis, Integration and Visualization", International Society for Photogrammetry and Remote Sensing (ISPRS) Joint Workshop held October 29-31, 2001, Georgia Center for Continuing Education, The University of Georgia, Athens, Georgia with 16 participants. Proceedings in hardcopy and CD-ROM formats published in Volume 34, Part 4/W5 of the International *Archives of Photogrammetry and Remote Sensing* and full manuscripts were submitted to a theme issue of the *ISPRS Journal of Photogrammetry and Remote Sensing* on "Challenges in GIS Analysis and Visualization" published in 2002.

PRESENTATIONS at Regional, National and International Conferences:

- Madden, M., "TBD", (Invited Speaker, Chauncy Harris Lecture), Brigham Young University, Provo, Utah, 21 November, 2019.
- Madden, M., "TBD", (Invited Keynote Speaker), International Conference on Geomatics in the Big Data Era, Guilin, China, 6-9 November 2019.
- Madden, M., "Extending Learning from the Classroom to the Community: Gaining experience through contributions to research, professional societies and community service", Special Session on Student Professional Development by members of ISPRS White Elephant Club, International Conference on Geomatics in the Big Data Era, Guilin, China, 6-9 November 2019.
- <u>Karidozo</u>, M., F. Osborn, A. Presotto, W. Langbauer, M. Madden and R. Fayrer-Hosken, "Conflict to Coexistence: Defining the thresholds of human elephant interactions in a landscape mosaic of eastern KAZA, Presentation to Zimbabwe Parks and Wildlife Management Authority, Victoria Falls, Zimbabwe, 2 August 2019.

- Madden, M., R. Fayrer-Hosken, C. Johnson, M. Karidozo, W. Langbauer, F. Osborn, R. Perry and A. Presotto, "Remote Sensing and Animal Movement Analysis to Mitigate Human-Elephant Conflict in Zimbabwe", (Invited Presentation), John Jensen Distinguished Lecture Series, Association of American Geographers Annual Conference, Washington, D.C., 3-7 April 2019.
- Bernardes, S. and M. Madden, "Augmenting the Classroom: Incorporating Recent Advances in Remote Sensing, Virtual and Augmented Reality into Teaching and Learning in the Geosciences and Humanities", Association of American Geographers Annual Conference, Washington, D.C., 3-7 April 2019.
- <u>Madden, M.</u> and S. Bernardes, "Geospatial Technologies and Augmented Reality Spark Excitement in Science Education, Research and Outreach", (**Invited Keynote Speaker**), 2019 Georgia Academy of Sciences Meeting, University of North Georgia, Gainesville, GA, 16 March 2019.
- Madden, M., T. Jordan, D. Cotten, S. Bernardes, N. O'Hare, B. Adams and S. Healy, "Maintaining National Park Service Vegetation Databases using Emerging Geospatial Techniques", American Society for Photogrammetry and Remote Sensing (ASPRS) Conference, Denver, Colorado, 28-30 January, 2019.
- Madden, M., "Live Discussion with a NASA DEVELOP Project Team at the Georgia-Athens Node", American Society for Photogrammetry and Remote Sensing (ASPRS) Conference, Denver, Colorado, 28-30 January, 2019.
- Madden, M., "Science Advisors Involved in NASA DEVELOP National Projects is a Win-Win-Win", American Society for Photogrammetry and Remote Sensing (ASPRS) Conference, Denver, Colorado, 28-30 January, 2019.
- Aragon, A., C. Johnson and M. Madden, "Street View Housing Survey and Sentinel-2 Green Space Inventory to Evaluate Gentrification in Atlanta", American Society for Photogrammetry and Remote Sensing (ASPRS) Conference, Denver, Colorado, 28-30 January, 2019.
- <u>Jordan, T.</u> and M. Madden, "Future Techniques Supporting NPS Inventory: UAS, Structure from Motion and Lidar", Georgia, American Society for Photogrammetry and Remote Sensing (ASPRS) Conference, Denver, Colorado, 28-30 January, 2019.
- <u>Jordan, T.</u>, M. Madden, S. Bernardes and B. Adams, "Mapping and Monitoring of Coastal Habitats on Sapelo Island", Georgia, American Society for Photogrammetry and Remote Sensing (ASPRS) Conference, Denver, Colorado, 28-30 January, 2019.
- Bernardes, S., M. Madden, A. Knight and H. Neel, "Incorporating Advances in Remote Sensing Virtual and Augmented Reality into Learning in the Geosciences," American Society for Photogrammetry and Remote Sensing (ASPRS) Conference, Denver, Colorado, 28-30 January, 2019.
- Bernardes, S., M. Madden, and T. Jordan, "A Spatiotemporal Analysis of Vegetation Browning Following Recent Extreme Events on the Georgia Coast", American Society for Photogrammetry and Remote Sensing (ASPRS) Conference, Denver, Colorado, 28-30 January, 2019.
- Meng, N., J. Wang, Y. Wei, A. Presotto and M. Madden, "Assessing Human-Elephant Conflict using GPS Tracking and High-resolution Imagery: A class project assists researchers in Zimbabwe", American Society for Photogrammetry and Remote Sensing (ASPRS) Conference, Denver, Colorado, 28-30 January, 2019.
- Neel, D., D. Cotten, D. Mishra, S. Ullrich, M. Adams, A. Burd, M. Madden and T. Mote, "The Spectral Ocean Color (SPOC) Small Satellite Mission: Developing an Adjustable Multispectral Image", poster presentation at American Geophysical Union (AGU) Conference, Washington, D.C., December 2018.
- <u>Madden, M.</u> and S. Bernardes, "Emerging Geospatial Techniques in Education and Outreach: Augmented Reality, Elephants and Gardens", (**Invited Presentation**), United Nations Geospatial Information Congress, Deqing, China, 19-21 November 2018.

- Bernardes, S., M. Madden, A. Knight, N. Neel, N. Morgan, K. Cameron and J. Knox, "A Multi-component System for Data Acquisition and Visualization in the Geosciences based on UAVs. Augmented and Virtual Reality, International Society for Photogrammetry and Remote Sensing (ISPRS), Technical Commission IV Symposium, Delft, The Netherlands, 1-5 October, 2018.
- Madden, M., S. Bernardes, R. Fayrer-Hosken, A. Presotto, W. Langbauer, M. Karidozo, F. Osborn,
 M. LaGrange and C. Johnson, "The Earth and her People need GEOBIA Now more than Ever:
 Seeing is believing and seeing, (Invited Keynote Address), Geographic Object-Based Image
 Analysis (GEOBIA) International Conference, Montpellier, France, 18-22 June, 2018.
- Madden, M., S. Bernardes, D. Cotten and T. Jordan, "Advanced Geospatial Technologies for Agricultural Landscapes: 3D Immersion and Geovisualization System (3DIG)", U.S.
 Department of Agriculture (USDA) Long Term Agricultural Research (LTAR) Special Session of the Annual US-International Association of Landscape Ecology (US-IALE) Conference, Chicago, Illinois, 9-11 April, 2018.
- Wang, M., X. Zhou and M. Madden, "Perceiving urban rhythms through Uber taxi time series", Association of American Geographers Annual Meeting, New Orleans, Louisiana, 10-14 April, 2018.
- Madden, M., R. Fayrer-Hosken, A. Presotto, W. Langbauer, M. Karidozo, F. Osborn, M. LaGrange and C. Johnson. "Managing Conflict between Free-ranging Elephants and Humans in Zimbabwe", (Invited Speaker) Lindsay Wildlife Alliance Speaker Series, Walnut Creek, California, 19 March 2018.
- Madden, M., S. Bernardes, T. Jordan, B. Adams, A. Wynn, N. Moon, N. Morgan, A. Knight, S. Shrestha, A. Aragon, S. Weber and S. Healy, "Using Online Story Maps, Time Series and UAS to Depict African American History in Athens, GA", American Society for Photogrammetry and Remote Sensing (ASPRS) Conference, Denver, Colorado, 5-7 January, 2018.
- Bernardes, S., M. Madden, T. Jordan, A. Knight and A. Aragon, "A Spatiotemporal Analysis of Vegetation Status and Damage Following Hurricanes in Sapelo Island, GA., American Society for Photogrammetry and Remote Sensing (ASPRS) Conference, Denver, Colorado, 5-7 January, 2018.
- Bernardes, S. and M. Madden, "Remote Sensing of Vegetation Recovery Following a Major Disturbance Event in the Great Smoky Mountains National Park" 11th Southern Forestry and Natural Resource Management GIS Conference, Athens, Georgia 11-12 December 2017.
- Madden, M., C. Cameron, A. Aragon, I.S. Astuti, N, Bhattacharjee, A. Hannum, D. Oh, K. Sahoo, "Atlanta Water Resources: Identifying Key Urban Areas to Reduce Stormwater Runoff and Maximize Conservation Efforts in Metropolitan Atlanta", (Invited) World Forum on Natural Capital, Edinburgh, Scotland 27-29 November 2017.
- Madden, M. "Opportunities for Education, Training and Professional Development: How ASPRS and ISPRS can Change your Life", American Society for Photogrammetry and Remote Sensing (ASPRS) Imaging and Technological Forum (IGTF), Baltimore, Maryland, 11-16 March, 2017.
- Cotten, D., <u>C. Adams</u>, D. Mishra, M. Madden, and S. Bernardes. "STEM Opportunities for Undergraduates Building Nannosatellites: the NASA CubeSat Program", American Society for Photogrammetry and Remote Sensing (ASPRS) Imaging and Technological Forum (IGTF), Baltimore, Maryland, 11-16 March, 2017.
- Wang, M., D. Atkinson, J. Alcorn, S. Bernardes, M. Risse and M. Madden, "A Framework to Interactively Visualize Septic Tank-Related Environmental Information in Coastal Georgia", American Society for Photogrammetry and Remote Sensing (ASPRS) Imaging and Technological Forum (IGTF), Baltimore, Maryland, 11-16 March, 2017.
- Bernardes, S., M. Madden, D. Cotten and T. Jordan, "Advanced Geospatial Technologies for Education and Outreach: 3D Immersion and Geovisualization System (3DIG)", American Society for Photogrammetry and Remote Sensing (ASPRS) Imaging and Technological Forum (IGTF), Baltimore, Maryland, 11-16 March, 2017.

- Bernardes, S. and M. Madden, "Satellite Time Series Analysis of Changes in Vegetation Phenology in the Great Smoky Mountains National Park, Eastern United States", American Society for Photogrammetry and Remote Sensing (ASPRS) Imaging and Technological Forum (IGTF), Baltimore, Maryland, 11-16 March, 2017.
- Bernardes, S. and M. Madden, "Geospatial contributions to worldwide elimination of river blindness (Onchocerciasis): Using Earth observations to locate at-risk Yanomami populations and airstrips in the Amazon region", 2016 InterAmerican Conference on Onchocerciasis, Guatemala City, Guatemala (Invited by the Carter Center), Guatemala City, Guatemala, 1-3 December 2016.
- Madden, M. and Thomas Jordan, "Unmanned Aerial Systems (UAS) and 3D Visualization for Monitoring Natural and Cultural Resources", Southeastern Division of American Association of Geographers (SEDAAG), Columbia, South Carolina, 20-21 November, 2016.
- O'Hare, N. and M. Madden, "LIDAR Detection of Microtopographic Features in a Forested Landscape with Low Relief: Implications for Amphibian Breeding", Southeastern Division of American Association of Geographers (SEDAAG), Columbia, South Carolina, 20-21 November, 2016.
- Hernandez S.M., C.N. Welch, V.E. Peters, E.K. Lipp, S. Curry, M.J. Yabsley, S. Sanchez, A.
 Presotto*, P. Gerner-Smidt, K. Hise, E. Hammond, W.M. Kistler, M. Madden, A.L. Corway, T. Kwan and J.J. Maurer. "Urbanized white ibises (*Eudocimus albus*) are carriers of Salmonella enterica significant to public health and wildlife. International Wildlife Disease Association Conference, Cornell University, Ithaca, New York, 31 July 5 August, 2016.
- Bernardes, S. and M. Madden, "Vegetation Disturbance and Recovery Following a Rare Windthrow Event in the Great Smoky Mountaints National Park", XXIII Congress of the International Society for Photogrammetry and Remote Sensing (ISPRS), Prague, Czech Republic, 12-19 July, 2016.
- Remillard, C.M., M. Madden, J. Favors, L. Childs-Gleason, K.W. Ross, L. Rogers and M.L. Ruiz, "Bridging the Gap between NASA Earth Observations and Decision Makers through the NASA DEVELOP National Program", XXIII Congress of the International Society for Photogrammetry and Remote Sensing (ISPRS), Prague, Czech Republic, 12-19 July, 2016.
- Jordan, T.R., C.L. Goetcheus and M. Madden, "Point Cloud Mapping Methods for Documenting Cultural Landscape Features at the Wormsloe State Historic Site, Savannah, Georgia, USA", XXIII Congress of the International Society for Photogrammetry and Remote Sensing (ISPRS), Prague, Czech Republic, 12-19 July, 2016.
- <u>Jordan, T.R.</u> and M. Madden. "Primary Data Acquisition: Documenting Change with Point Clouds and Imagery", American Society for Photogrammetry and Remote Sensing (ASPRS) Imaging and Technological Forum (IGTF), Fort Worth, Texas, 11-15 April, 2016.
- Wang, M., X. Zhou and M. Madden, "Geospatial analytics in understanding online customer reviews: An exploratory analysis". American Society for Photogrammetry and Remote Sensing (ASPRS) Imaging and Technological Forum (IGTF), Fort Worth, Texas, 11-15 April, 2016.
- Wang, M. and M. Madden. "Bridging the gap between Geography and Marketing: Opportunities for CyberBIS. CyberGIS Curriculum Workshop for Synthesizing Education Materials, San Francisco, California, 2-3 April, 2016.
- Madden, M., "Geospatial Analysis of Human-Environment Interactions in Historical Landscapes", Trends and Developments of Photogrammetry and Remote Sensing Workshop, National Geomatics Center of China, Beijing, China, January 8, 2016. (Invited Presentation)
- Madden, M., "Geospatial Technologies and People Prepare, Respond and Recover from Disasters", International Workshop on the Role of Land Professionals and SDI in Disaster Risk Reduction: In the context of 'Post 2015 Nepal Earth Quake', Kathmandu, Nepal, 25-27 November, 2015.

 (Invited Pre-Conference Workshop Presentation/Panel and Invited Plenary Presentation).

 www.workshopnepal2015.com.np

- Madden, M., "The Future of Unmanned Aerial Systems (UAS) for Monitoring Natural and Cultural Resources", Photogrammetric Week 2015, Stuttgart, Germany, September 7-11, 2015. (Invited Presentation)
- Madden, M., "Student Involvement in Professional Societies", NASA DEVELOP Online Seminar Series, Broadcast from NASA Langley Research Center, Hampton, Virginia, July 15, 2015. (Invited Presentation)
- Xu, W., M. Madden, R. Fayrer-Hosken, A. Presotto, "Functional Connectivity for Elephant Movement in Kruger National Park: An Application of Graph Theory", Animal Behavior Society Annual Conference, Anchorage, Alaska, June 10-14, 2015.
- Remillard, A., M. Madden, R. Fayrer-Hosken, A. Presotto," Sleeping Site Selection by African Elephants (*Loxodanta Africana*) in Kruger National Park, South Africa", Poster, Animal Behavior Society Annual Conference, Anchorage, Alaska, June 10-14, 2015.
- Remillard, C., M. Amin, H. Essig, P.A. Hawman, M. Madden, R. Guillen and A. Savage, "Utilizing NASA Earth Observations to Enhance the Conservation of the Cotton-top Tamarin", Animal Behavior Society Annual Conference, Anchorage, Alaska, June 10-14, 2015.
- <u>Presotto, A.</u>, A. Remillard, C. Remillard, M. Madden, R. Fayrer-Hosken, "Do African elephants (*Loxodonta africana*) use a route-based navigation system?", Animal Behavior Society Annual Conference, Anchorage, Alaska, June 10-14, 2015.
- <u>Cameron, C.</u>, P. Hawman, A. Herring, G. Miller, C. Remillard, M. Madden, "Utilizing Satellite and UAS Imagery to Document Land Cover Trends Impacting Water Quality, Wildlife Habitats and Archaeology of the Ocmulgee River Corridor", 2015 Georgia Water Resources Conference, Athens, Georgia, April 28-29, 2015. http://gwri.gatech.edu/sites/default/files/files/docs/2015/4.3.5cameron.pdf
- <u>Bacchus, S.</u> T., S. Bernardes, W. Xu and M. Madden, "What Georgia can learn from ASR in Florida", 2015 Georgia Water Resources Conference, Athens, Georgia, April 28-29, 2015. http://gwri.gatech.edu/sites/default/files/files/docs/2015/4.5.3bacchus.pdf
- Madden, M., "Geospatial Information Supporting Animal Movement and Habitat Studies", Remote Sensing and Photogrammetry Society (RSPSoc) Wavelength Student Conference, Newcastle University, Newcastle upon Tyne, United Kingdom, March 30-April 1, 2015. (Invited Presentation)
- <u>Ignatius</u>, A.R., J.W. Jones and M. Madden, "High Resolution Water Body Mapping for Improved SWAT Hydrologica Model Streamflow Prediction in the Ichaway Nochaway and Upper Oconee Watersheds of Georgia, USA", Southeastern Division of the Association of American Geographers Annual Meeting, Athens, Georgia, 19-22 November 2014.
- <u>Madden, M.</u>, "Global Access to " Satellite, Airborne and Ground-based Remote Sensing is Critical to Conservation of Earth Resources", African Association of Remote Sensing of Environment, Johannesburg, South Africa, 26-31 October, 2014. (Invited Keynote Address)
- Madden, M., T. Jordan, S. Bernardes, D. Fragaszy, A. Presotto, A. Howard, L.A. Young, C. Remillard, S. Padgett-Vasquez, R. Rodriques dos Santos, K. Sarges Marques, R. Salmi, R. Fayrer-Hosken, A. Remillard and P. Hawman, "Geo-locational Tracking of Animal Movements and Remote Sensing of Habitat Quality for Wildlife Conservation", African Asociation of Remote Sensing of Environment, Johannesburg, South Africa, 26-31 October, 2014.
- Madden, M., T. Jordan, S. Bernardes, D. Fragaszy, A. Presotto, A. Howard, R. Fayrer-Hosken, L.A. Young, C. Remillard, R. Salmi, P. Hawman, A. Remillard, K. Sarges Marques and R. Rodriques dos Santos, "Spatio-temporal Patterns of Animal Movements Related to Habitat Characteristics and Wildlife Conservation", ISPRS Technical Commission II Symposium, Toronto, Canada, 6-8 October, 2014.
- <u>Jordan, T.R.</u> and M. Madden, Structure from Motion and Low-Cost UAV Data: Methods and Applications, UAS Mapping 2014, Reno, NV, October 21, 2014. (**Invited Presentation**)

- Madden, M., "Student Involvement in Professional Societies", NASA DEVELOP Online Seminar Series, Broadcast from NASA Langley Research Center, Hampton, Virginia, July 8, 2014. (Invited Presentation)
- Madden, M., "ISPRS Technical Commission VI Midterm Symposium Closing Remarks", International Society for Photogrammetry and Remote Sensing Technical Commission IV Symposium, Suzhou, China, May 19-21, 2014. (Invited Plenary Presentation)
- Madden, M., "The NASA DEVELOP Program at the University of Georgia Involves Undergraduate/Graduate Students in Geospatial Research and Outreach", International Society for Photogrammetry and Remote Sensing Technical Commission VI Symposium, Wuhan, China, May 19-21, 2014. (Invited Plenary Presentation)
- Madden, M., "ISPRS Technical Commission IV Midterm Symposium Closing Remarks", International Society for Photogrammetry and Remote Sensing Technical Commission IV Symposium, Suzhou, China, May 14-16, 2014. (Invited Plenary Presentation)
- <u>Madden, M., T. Jordan, D. Fragaszy, A. Howard, S. Bernardes and A. Presotto, "Geovisualization and Analysis of Animal Behavior, Habitats and Conservation", International Society for Photogrammetry and Remote Sensing Technical Commission IV Symposium, Suzhou, China, May 14-16, 2014.</u>
- Madden, M., "Improved Understanding of Landuse Change using Geospatial Technologies and Geovisualization: Case studies of historical agricultural landuse and tornado damage in a forest preserve", INTEREXPO GEO-SIBERIA, Novosibirsk, Russia, April 16-18, 2014.
- Remillard, C., A. Presotto, S. Padgett-Vasquez, A. Baruch, T. Jordan and M. Madden, "Utilizing NASA Earth Observations for Conservation Management of the Bearded Capuchin Monkey (Sapajus libidinosus) in Northeastern Brazil", American Society for Photogrammetry and Remote Sensing Annual Conference, Louisville, Kentucky, March 24-28, 2014.
- Jordan. T.R., A. Howard, S. Bernades M. Madden, N. Schwob, and D. Fragasy, Structure from Motion and Bearded Capuchin Monkey Stone Tool Use: 'Casual' Photogrammetry for Research and Field. American Society for Photogrammetry and Remote Sensing Annual Conference, Louisville, Kentucky, March 24-28, 2014.
- O'Hare, N., C-Y. Chou and M. Madden, "Cultural Heritage Reconstruction: 3D Visualization of an Historical Landscape", American Society for Photogrammetry and Remote Sensing Annual Conference, Louisville, Kentucky, March 24-28, 2014.
- Howard, A., S. Bernardes, M. Madden, N. Schwob and D. Fragaszy, "Structure from Motion and Bearded Capuchin Monkey Stone Tool Use", American Society for Photogrammetry and Remote Sensing Annual Conference, Louisville, Kentucky, March 24-28, 2014.
- <u>Bernardes, S.</u> and M. Madden, "Spatiotemporal Analysis of Primary Productivity Fluctuations Under Increased Hydroclimatic Variability", American Society for Photogrammetry and Remote Sensing Annual Conference, Louisville, Kentucky, March 24-28, 2014.
- Madden, M., A. Presotto, A. Howard, T. Jordan, S. Bernardes, D. Fragaszy, C. Remillard, K. Marques and R. Rodrigues dos Santos, "Geospatial Analysis of Animal Movement and Habitat Conservation for Wildlife", American Society for Photogrammetry and Remote Sensing Annual Conference, Louisville, Kentucky, March 24-28, 2014.
- Wang, M., I. Chollett, C. Huang, H. Fox, A. Wijonarno, M. Madden and GN Ahmadia, "Classifying the Sunda Banda Seascape with self-organizing map", American Society for Photogrammetry and Remote Sensing Annual Conference, Louisville, Kentucky, March 24-28, 2014.
- Madden, M., "Remote Sensing in Natural Resource Management: New Technologies", 9th Southern Forestry and Natural Resource Management GIS Conference. Athens, Georgia, December 8-10, 2013. (Invited Keynote Address)
- <u>Madden, M.</u>, "Landscape Change", Conservation and Natural Resource Management in an Uncertain Future, Ichauway Conference 2013, November 408, 2013. (**Invited Paper**)

- Madden, M., T. Jordan and D. Fragaszy, Geospatial Analysis of Monkeys, Environment and Human Relationships: Remote Sensing Studies from Brazil and Costa Rica Addressing Behavior, Habitatas and Conservation, Latin American Remote Sensing Conference, Santiago, Chile, October 23-25, 2013.
- Howard, A., S. Bernardes, C. Strother, T. Johnson, P. Lines, L. Biehl, R. Landenberger and M.
 Madden, "Introducing land cover classification in middle and high school classrooms", Speical Session: Education/Outreach in Remote Sensing, American Society for Photogrammetry and Remote Sensing Annual Conference, Baltimore, Maryland, March 25-28, 2013.
- KC, B., M. Shepherd, M. Madden and C. Johnson, "Spatio-temporal assessment of climate change vulnerability in Georgia", American Society for Photogrammetry and Remote Sensing Annual Conference, Baltimore, Maryland, March 25-28, 2013.
- <u>Lash, R.</u>, S. Bernardes, M. Madden, J. Crump, V. Maro, H. Biggs and W. Nicholson, "Identifying spatial and temporal patterns in NDVI to better characterize the geographic risk of spotted fever group Rickettsial disease in Kilimanjaro Region, Tanzania", poster, American Society for Photogrammetry and Remote Sensing Annual Conference, Baltimore, Maryland, March 25-28, 2013.
- <u>Bernardes</u>, S., C. Strother, T. Jordan and M. Madden, "Assessing vegetation disturbance resulting from an extreme windthrow event in the Great Smoky Mountains National Park", Special Session: Extreme Weather, American Society for Photogrammetry and Remote Sensing Annual Conference, Baltimore, Maryland, March 25-28, 2013.
- Madden, M., "Testimonials from students at The University of Georgia, Geography Department Center for Geospatial Research: The ups and downs of writing NSF-DDRI grant proposals", Special Session: Advice on How to Successfully Write an NSF Grant, 4, Baltimore, Maryland, March 25-28, 2013. (Invited Panel Member)
- <u>Madden, M.</u>, "Reconstructing Historical Sites with Spatio-temporal Geodatabases and Geovisualization", Seminar on Advances and Future of Photogrammetry, Remote Sensing and Spatial Information Science, Southwest Jiaotong University, Chengdu, China, December 4, 2012. (Invited Paper).
- Madden, M., T. Jordan and S. Ross, "Improved Understanding of Historical Sites with Geovisualization and Web-Based Media: Wormsloe State Historic Site, Georgia, USA", Special Session, "Conference on Science and Technology in Archaeology (CIPA) and ISPRS Commission IV 3D Dynamic Landscape Visions for Cultural Heritage and Archaeology" at the XXII International Society for Photogrammetry and Remote Sensing Congress, Melbourne, Australia, August 24-September 3, 2012.
- Bernardes, S., and M. Madden, "Vegetation Responses to Climatic Variablity in the Southeast United States: An Analysis of Changes in Greeness and Primary Productivity during the First Decade of the 21st Century", XXII International Society for Photogrammetry and Remote Sensing Congress, Melbourne, Australia, August 24-September 3, 2012.
- Jordan, T., M. Madden, JB Sharma and S. Panda, "Applied Geospatial Education: Acquisition and Processing of High Resolution Airborne Lidar and Orthoimages for the Great Smoky Mountains National Park, Southeastern United States, XXII International Society for Photogrammetry and Remote Sensing Congress, Melbourne, Australia, August 24-September 3, 2012.
- Howard, A., S. Bernardes, N. Nibbelink, L. Biondi, A. Presotto, D. Fragaszy and M. Madden, "A Maximum Entropy Model of the Bearded Capuchin Monkey Habitat Incorporating Topography and Spectral Unmixing", XXII International Society for Photogrammetry and Remote Sensing Congress, Melbourne, Australia, August 24-September 3, 2012.
- Madden, M. "Long-term Earth Observation is Both a Privilege and Responsibility of the Global Geospatial Community", International Workshop on Earth Observation and Remote Sensing Applications (EORSA2012), Shanghai, China, June 8-11, 2012. (Invited Keynote Address)

- Madden, M. "GEOBIA's Role in a Changing World: Can we respond to the spatio-temporal continuum of local disasters to global climate change?", International Geographic Object-Based Image Analysis (GEOBIA) Conference, Rio de Janeiro, Brazil, May 7-9, 2012. (Invited Keynote Address)
- Madden, M. and C. Burda, "Longterm Vegetation Monitoring, Forest Structure and Landuse Legacy at Wormsloe", Wormsloe Institute for Environmental History Symposium, Athens, Georgia, May 1, 2012. (Invited Paper)
- Madden, M., Panel Member with Steven DeGloria "Preparing Competitive Grant Proposals: Funding Your Way to Success", Organized by ASPRS Student Advisory Council, American Society of Photogrammetry and Remote Sensing Annual Conference, Sacramento, California, March 19-23, 2012. (Invited Panel Member)
- <u>Bernardes, S.</u>; Madden, M. "Climate Constraints and Productivity of Terrestrial Ecosystems in the Southeastern United States", In: Annual Conference of the American Society for Photogrammetry and Remote Sensing. Sacramento, California, March 19-23, 2012.
- Jordan, T. and M. Madden, "Airborne and Terrestrial LiDAR in Education: Advanced Training for New Technologies", American Society for Photogrammetry and Remote Sensing Annual Conference, Sacramento, California, March 19-23, 2012.
- M. Madden, Panel Member with Michael Goodchild, John Wilson, Richard Lathrop and May Yuan "Future of Academic GIS Centers: Opportunities and Challenges", Organized by Jeffrey Hamerlinck, Association of American Geographers, New York, New York, February 24-28, 2012. (Invited Panel Member)
- <u>Presotto, A.</u> and M. Madden, "Frames of Orientation in Two Species of Capuchin Monkeys Based on GIS Analyses", Association of American Geographers, New York, New York, February 24-28, 2012.
- Yang, B. and M. Madden, "Use of LiDAR Shoreline Simulation for Analyzing Revetment Rock Beach Protection: A Case Study of Jekyll Island State Park", Association of American Geographers, New York, New York, February, 2012.
- Burda, C., M. Madden, K. Parker and T. Jordan, "Landuse Legacy Effects on Forest Structure in 33 Coastal Georgia Maritime Forests", Southeastern Forestery Geographic Information Systems (SOFOR GIS) Conference, Athens, Georgia, December 11-13, 2011.
- Bernardes, S.; Madden, M. "Relationships between Water Availability and Primary Productivity of Terrestrial Ecosystems in the Southeastern United States", In: Eighth Southern Forestry and Natural Resource Management GIS Conference. Athens, Georgia, December 11-13, 2011.
- <u>Howard, A.</u>; Bernardes, S.; Presotto, A.; Madden, M. "Characterization of Capuchin Monkey Routes using Fractional Cover Derived from Spectral Mixing Modeling", In: Eighth Southern Forestry and Natural Resource Management GIS Conference. Athens, Georgia, December 11-13, 2011.
- Chou, C.Y., A. Presotto, M. Madden, and B. Song, "Generating and Evaluating Levels of Realism and Detail in 2D Maps and 3D Geovisualizations for Southern Pine Beetle Management Practices", In: Eighth Southern Forestry and Natural Resource Management GIS Conference, Athens, Georgia, December 11-13, 2011.
- <u>Madden, M.</u>, "Multitemporal Imagery Supporting Earth Studies and Sustainability", (**Invited Keynote Address**), International Society for Photogrammetry and Remote Sensing Hannover Workshop 2011, Hannover, Germany, June 14-17, 2011.
- Madden, M. and T. Jordan, "Geovisualization and Analysis of Insect Damage in Forest Communities of Great Smoky Mountains National Park using Airborne LiDAR and High Resolution Orthoimagery", Association of American Geographers, Seattle, Washington, April 12-16, 2011.
- Madden, M., T. Jordan, J.B. Sharma and S.S. Panda, "Acquisition of Airborne Lidar and Orthoimagery for National Parks, Forests and Parkways in the Southern Appalachian Mountains", American Society for Photogrammetry and Remote Sensing Annual Conference, Milwaukee, Wisconsin, May 1-5, 2011.

- Bernardes, S.; Presotto, A.; Howard Eury, A.; Madden, M.; Fragaszy, D.M.; Jordan, T.; Izar, P.; Tavares-Rocha, Y. Blending topography normalization and unmixing analysis to improve forest patch discrimination in Atlantic Forest, in Brazil. American Society for Photogrammetry and Remote Sensing Annual Conference, Milwaukee, Wisconsin, May 1-5, 2011.
- Bernardes, S.; Howard Eury, A.; Presotto, A.; Madden, M.; Fragaszy, D.M.; Jordan, T.; Izar, P.; Tavares-Rocha, Y. An agent based modeling approach for representing Capuchin (*Sapajus* spp.) behavior in Brazil. American Society for Photogrammetry and Remote Sensing Annual Conference, Milwaukee, Wisconsin, May 1-5, 2011.
- Bernardes, S. and Madden, M. "Changes in Primary Productivity following the Onset of the 2006 Extreme Hydroclimatic Event in Southeastern United States", In: Changes in Primary Productivity following the Onset of the 2006 Extreme Hydroclimatic Event in Southeastern United States. Sydney, Australia, April 10-15, 2011.
- Madden, M. and H. Allen, "Utilizing Geovisualization Tools for Management and Decision Making", Special Joint Symposium of ISPRS Technical Commission IV and AutoCarto 2010 in conjunction with ASPRS/CaGIS Specialty Conference, Orlando, Florida, November 15-19, 2010.
- Wahid, Al and M. Madden, "GIS to Model Risk and Environmental Sensitivity to Oil Leaking from Ground Transporting Pipelines", Special Joint Symposium of ISPRS Technical Commission IV and AutoCarto 2010 in conjunction with ASPRS/CaGIS Specialty Conference, Orlando, Florida, November 15-19, 2010.
- Roberts, S., J. Holt and M. Madden, "Fusing Object-based Image Analysis Techniques with Field Surveys to Estimate Refugee Camp Populations: A Case Study in Kenya", Special Joint Symposium of ISPRS Technical Commission IV and AutoCarto 2010 in conjunction with ASPRS/CaGIS Specialty Conference, Orlando, Florida, November 15-19, 2010.
- Yang, B., M. Kim and M. Madden, "Comparison of Image Fusion between KOMPSAT II and IKONOS Satellite Imagery", Special Joint Symposium of ISPRS Technical Commission IV and AutoCarto 2010 in conjunction with ASPRS/CaGIS Specialty Conference, Orlando, Florida, November 15-19, 2010.
- <u>Bernardes, S.</u>, M. Madden and H. Allen "A Spatiotemporal Analysis of Vegetation Responses to Dry Conditions using Precipitation and MODIS Derived Indices", Special Joint Symposium of ISPRS Technical Commission IV and AutoCarto 2010 in conjunction with ASPRS/CaGIS Specialty Conference, Orlando, Florida, November 15-19, 2010.
- Yang, B., M. Madden and T. Jordan, "Ontology-driven Image Segmentation and Classification", Poster presentation, Special Joint Symposium of ISPRS Technical Commission IV and AutoCarto 2010 in conjunction with ASPRS/CaGIS Specialty Conference, Orlando, Florida, November 15-19, 2010.
- Chen, D., M. Madden, T. Jordan and J. Corn, "Modeling Feral Swine Distribution in Arkansas using Logistic Regression", Poster presentation, Special Joint Symposium of ISPRS Technical Commission IV and AutoCarto 2010 in conjunction with ASPRS/CaGIS Specialty Conference, Orlando, Florida, November 15-19, 2010.
- Madden, M., Thomas Jordan, Adam J. Hinley, Sergio Bernardes, Yuri Tavares-Rochas, Patricia Izar, Andrea Presotto, Allison Eury and Dorothy M. Fragaszy, "Geospatial Modeling of Factors Predicting Bearded Capuchin Tool Use in Boa Vista and Across the Cerrado of Brazil" (Invited Paper), International Primatological Society Congress, September 12-19, 2010, Kyoto, Japan.
- Madden, M., T. Jordan, J. Masour and Y. Wang, "GOEBIA-based Spatio-temporal Changes and Geovisualization within Wildland Urban Interfaces", GEOBIA 2010 International Conference, Ghent, Belgium, June 29 July 2, 2010.
- Madden, M., "Graduate Student Research and Climate Change", (**Invited Keynote Response**) General Session, American Society for Photogrammetry and Remote Sensing Annual Conference, San Diego, California, April 26 30, 2010.

- Madden, M. and P. Jackson, "Wormsloe Vegetation Geodatabases and Long-term Plot Surveys Related to Legacy Landuse Patterns, Isle of Hope, Georgia", U.S. International Association of Landscape Ecology Conference, Athens, Georgia, April 5-8, 2010.
- <u>Jordan, T.</u> and M. Madden, "Geospatial analysis of forest patterns related to environmental history of Wormsloe State Historic Site", Southern Forestry GIS Conference, Athens, Georgia, December 7-9, 2009.
- Allen, H., M. Madden and T. Jordan, "Geospatial tools for resource management decisions: Geovisualization of hemlock dieback in Great Smoky Mountains National Park", Southern Forestry GIS Conference, Athens, Georgia, December 7-9, 2009.
- Madden, M, T. Jordan and D. Fragaszy, "Modeling physical and biological factors related to Capuchin monkey tool use in the Cerrado of northeastern Brazil", Southern Forestry GIS Conference, Athens, Georgia, December 7-9, 2009.
- Yang, B., <u>T. Jordan</u> and M. Madden, "Shoreline change detection and dry beach delineation with Lidar for coastal management, planning and tourism", American Society for Photogrammetry and Remote Sensing Fall Specialty Conference, San Antonio, Texas, November 16-19, 2009.
- M.Madden, "Geovisualization and Virtual Globes for Analysis of a Changing Environment", ISPRS Wuhan 2009 Workshop, Virtual Changing Globe for Visualisation and Analysis, (**Invited Paper**), Wuhan, China, October 27-28, 2009.
- <u>Yang, B.</u> and M. Madden, "Automated Extraction of Developed and Un-developed Features from VHR Satellite Imagery: Balancing Coastal Development and Conservation", Annual meeting of Association of American Geographers (AAG), March 22-27, 2009.
- Madden, M. and T. Jordan, "Vegetation databases and human impacts in 21 National Parks of the Southeast: Tried and true combined with new approaches", Special Session The National Park Service Vegetation Inventory (NPSVI): Overview and Lessons Learned from a National Perspective II, Annual Conference of American Society of Photogrammetry and Remote Sensing (ASPRS), (Invited Paper), Baltimore, Maryland, March 9-13, 2009.
- Jordan, T., M. Madden and S.V. Ross, "Improved understanding of historical sites with geospatial tools and web-based media: Wormsloe State Historic Site, Annual Conference of American Society of Photogrammetry and Remote Sensing (ASPRS), Baltimore, Maryland, March 9-13, 2009.
- Madden, M., "Career Planning", Special ASPRS Student Advisory Council Panel Discussion, Annual Conference of American Society of Photogrammetry and Remote Sensing (ASPRS), (Invited Panel Member), Baltimore, Maryland, March 9-13, 2009.
- Madden, M., "Preparing Competetive Scholoarships and Grant Proposals", Special ASPRS Student Advisory Council Panel Discussion, Annual Conference of American Society of Photogrammetry and Remote Sensing (ASPRS), (Invited Panel Member), Baltimore, Maryland, March 9-13, 2009.
- Madden, M., "Promoting Geospatial Workforce Development by Building Bridges among Stakeholders", Annual Conference of American Society of Photogrammetry and Remote Sensing (ASPRS), (Invited Panel Member), Baltimore, Maryland, March 9-13, 2009.
- <u>Yang, B.</u> and M. Madden, "Geographic Object-based Image Analysis (GEOBIA) of very high resolution imagery for balanced coastal development and conservation", Annual Conference of American Society of Photogrammetry and Remote Sensing (ASPRS), Poster Presentation, Baltimore, Maryland, March 9-13, 2009.
- Kim, M., B. Xu and M. Madden, "Object-based Vegetation Type Mapping using Ikonos Imagery: Spectral, Spatial and Topographic Information", GEOBIA 2008, Calgary, Alberta, Canada, August 6-7, 2008.
- Madden, M., T. Jordan, J. Masour, J. Trice and R. Malhotra "Everglades Vegetation Community Analysis at the Landscape Level", Greater Everglades Ecosystem Restoration Conference (GEER), Naples, FL, July 28-August 1, 2008.

- Madden, M. and T.R. Jordan, "Geovisualization and Analysis of Natural and Cultural Resources in U.S. National Parks", International Society for Photogrammetry and Remote Sensing Congress, Beijing, China, July 1-11, 2008.
- Madden, M., "Research and Professional Development Enhances Teaching and GIScience & Technology", (**Invited Paper**), Integrated Geospatial Education and Technology Training (iGETT) Workshop, Corpus Christi, TX, June 19, 2008.
- Madden, M. "Manfred Ehlers at the University of Georgia: Bulldogs, DEMS and Data Fusion", Invited Paper, Geomatics Paves the Highway to Digital Earth Symposium, Osnabruck, Germany, June 13, 2008.
- Madden, M., "Geospatial Professional Development and Certification: ASPRS", (Invited Paper), Georgia Department of Natural Resources GIS User Group Meeting, Charlie Elliot Wildlife Center, Mansfield, GA, May 6, 2008.
- Madden, M., "Scholarships and Grants: Funding your Way to Success", (Invited Paper), ASPRS Annual Conference, Portland, Oregon, April 28-May 9, 2008.
- Madden, M., T.R. Jordan and C.P. Lo, "Geovisualization in Ecological Research, Management and Education: Experience with a GeoWall", ASPRS Annual Conference, Portland, Oregon, April 28-May 9, 2008.
- <u>Jordan, T.R. and M. Madden,</u> "Sampling Strategy for Accuracy Assessment of Vegetation Databases for National Parks", ASPRS Annual Conference, Portland, Oregon, April 28-May 9, 2008.
- Madden, M., "GeoWall for Stereo Visualization in the Geography-Geology Classrooms", (Invited Paper), Remote Sensing, GIS and Geographical Research in Memory of C.P. Lo, Special Session, Association of American Geographers, Boston, MA, April 15-18, 2008.
- Madden, M., "Student Involvement in Research and Professional Development", (**Invited Keynote Address**), Remote Sensing & Geospatial Technologies Conference, Florida and Southeast Region's First Student-Oriented Geographic Information Technology Research Conference, Florida State University, Tallahassee, FL, March 28-30, 2008.
- Madden, M. and Thomas Jordan, "Geospatial Tools for Sustainable Development of Cultural and Natural Resources in National Park and Tribal Lands", Alaska Surveying & Mapping Conference, Anchorage, AK, February 25-26, 2008.
- Madden, M., "Remote Sensing for Geospatial Programs in Community Colleges", (**Invited Paper**), Integrated Geospatial Education and Technology Training (iGETT) Workshop, Corpus Christi, TX, August 10, 2007.
- Madden, M.., "Remote Sensing Imagery for Urban Analysis", (**Invited Plenary Paper**), International Cartography Association (ICA) 2nd Workshop on Geospatial Analysis and Modeling, July 12-13, 2007, Athens, GA.
- Madden, M., T. Jordan, R. Smith and H. <u>Allen.</u>, "Analysis and Geovisualization of Dynamic Landscapes for Conservation Management", (**Invited Plenary Paper**), Internt. Society for Photogrammetry and Remote Sensing Joint Workshop, June 27-29, 2007, Stuttgart, Germany.
- <u>Madden, M.</u>, "A Comparison of Object-based Image Analysis and Manual Interpretation of Vegetation Communities" OBIA 2007, Geospatial Imaging and Informatics Facility, University of California, Berkely, CA, June 7-8, 2007.
- Madden, M., "Visualization and Analysis of Natural Resources with Case Studies of Forest Communities in Southeastern National Parks", (**Invited Paper**), 6th Annual Central New York State Remote Sensing Conference, Syracuse, NY, June 1, 2007.
- Madden, M., "ASPRS: Leader in GIScience for All", Presidental Address, ASPRS Annual Conference, Tampa, FL, May 7-11, 2007.
- Madden, M., "Teaching Geoscience through Research", ASPRS Anual Conference, Tampa, FL, May 7-11, 2007.
- <u>Kim, M.</u> and M. Madden, "Object-based Forest Classification using Spectral and Spatial Information from IKONOS Images", ASPRS Anual Conference, Tampa, FL, May 7-11, 2007.

- Manglass, L., T. Jordan and M. Madden, "Network Analysis of Historical Airboat Trails in Everglades National Park", ASPRS Anual Conference, Tampa, FL, May 7-11, 2007.
- Madden, M., and T. Jordan, "Conflicts of Conservation and Access in National Parks", Association of American Geographers, San Francisco, CA, April 17-21, 2007.
- Ross, A. and M. Madden, "Genocide and GISci: Using geographic information science (GISci) to study human rights", Assoc. of American Geographers, San Francisco, CA, April 17-21, 2007.
- Madden, M. "Geospatial Tools for Field Data", (Invited Workshop), Partnerships for Enhancing Expertise in Taxonomy, Athens, GA, March 26-29, 2007.
- Madden, M., and T. Jordan, "Segmentation, Contextual Classification and Geovisualization of Cultural and Natural Resources", ASPRS Fall Conference Measuring the Earth II, San Antonio, TX, November 6-10, 2006.
- Madden, M., "Geospatial Tools for Managing Conservation Lands", Georgia URISA Conference, Athens, GA, November 1-3, 2006.
- <u>Madden, M.</u>, "Analysis and Visualization of Dynamic Landscapes", (**Accepted Paper in Workshop**): University Consortium for Geographic Information Science Research Workshop on Computation and Visualization for the Understanding of Dynamics in Geographic Domains, Linthicum Heights, MD, 16-18, October 2006.
- Madden, M., T. Jordan, C. Watson, J. Masour, N. Vodas and L. Manglass, "Landscape Analysis Using Geospatial Tools", (Invited Paper in Special Symposium): From Upstart to Icon: Geographic Information Systems in Plant Population Ecology, Ecological Society of America, Memphis, TN, August 6-11, 2006.
- Madden, M., T. Jordan, Y. Tang and M. Kim, "Object-Based Segmentation of Natural Landscapes using Landscape Models to Derive Contextual Classification", Poster presentation, Object-Based Image Analysis (OBIA), Salzburg, Austria, July 4-5, 2006.
- <u>Madden, M.</u>, "Teaching Geoscience through Research at the University of Georgia", (**Invited Paper**), ASPRS Central Region Annual Conference, St. Louis, MO, June 15, 2006.
- Madden, M., T. Jordan and N. Vodas, "R-EMAP Phase III Vegetation Community Analysis at the Landscape Scale", 2006 Greater Everglades Ecosystem Restoration Conference, Lake Buena Vista, FL, June 5-9, 2006.
- Madden, M. and T. Jordan, "Geovisualization and Analysis of Landscape Change for Habitat Restoration", ASPRS Annual Conference, Reno, NV, May 1-5, 2006.
- Ridgeway, J., N. Gardiner and M. Madden, "Object-Oriented Approaches to Channel Habitat Classification on the Lower Congo River", ASPRS Annual Conf., Reno, NV, May 1-5, 2006.
- <u>Madden, M.</u>, "Geovisualization for Landscape Analysis", (**Invited Keynote Address**), 22nd Annual Louisiana Remote Sensing and GIS Workshop, Baton Rouge, LA, April 4-6, 2006.
- Madden, M. and T. Jordan, "Geovisualization of Vegetation patterns in National Parks", Association of American Geographers Annual Conference, Chicago, IL, March 7-11, 2006.
- Madden, M. and T. Jordan, "Teaching and Research Activities of the CRMS", Department of Geography, GIS in Teaching & Research Symposium, UGA Georgia Center for Continuing Education, Athens, GA, February 23-24, 2006.
- Madden, M., and T. Jordan, "Resource Mapping, Modeling and Analysis Applications in State and Federal Conservation Lands", American Society for Photogrammetry and Remote Sensing Mid-South Region Fall Conference, Athens, GA, November 10-11, 2005.
- Madden, M., T. Jordan and L. Manglass, "Assessing Impacts on Everglades Ecosystems using Remotely Sensed Data", The William T. Pecora Memorial Symposium PECORA 16, Sioux Falls, SD, October 23-27, 2005.
- Madden, M., "Geospatial Education and Research at The University of Georgia", (Invited Paper), Workshop on Geospatial Education in Two-Year Academic Programs sponsored by NSF and NASA, Arlington, VA, August 15-16, 2005.

- Madden, M. and T. Jordan, "Geospatial Tools for Vegetation Assessment in National Parks of the Southeast", (Invited Paper), Community to Globe: Landscape Analysis using Geospatial Tools Workshop, International Association for Ecology (INTECOL), Montreal, Quebec, Canada, August 7-12, 2005.
- Madden, M. and T. Jordan, "Feature Extraction and Visualization in Coastal Zones", Association of American Geographers, Denver, CO, April 5-9, 2005.
- <u>Madden, M.</u> and T. Jordan, "Geovisualization of Vegetation Patterns in National Parks of the Southeastern United States", Geo-hypermedia Workshop, Denver, CO, April 4-5, 2005.
- Madden, M., J. Masour, J. Corn and S. Gibbs, "GIS for Wildlife Disease Studies", Annual American Society for Photogrammetry and Remote Sensing Conference, Baltimore, MD, March 7-11, 2005.
- Madden, M., and T. Jordan, "Visualization and Analysis for Decision Making in National Parks", Annual American Society for Photogrammetry and Remote Sensing Conference, Baltimore, MD, March 7-11, 2005.
- Madden, M., "Forest Mapping, Visualization and Analysis in National Parks of the Southeastern United States", Southern Forestry and Natural Resource Management GIS Conference, Athens, GA, December 16-17, 2004.
- Madden, M., "Vegetation Inventory and Analysis in National Park Units of the Southern Appalachians", (**Invited Paper**), Southern Appalachian Man and the Biosphere Conference, Gatlinburg, TN, November 17-19, 2004.
- Madden, M. and T. Jordan, "Database Development and Analysis for Decision Makers in National Parks of the Southeast", American Society for Photogrammetry and Remote Sensing Fall Conference, Kansas City, KS, September 12-16, 2004.
- <u>Dolezal, J.</u> and M. Madden, "Geovisualization for Resource Decisions in National Parks", American Society for Photogrammetry and Remote Sensing Fall Conference, Kansas City, KS, September 12-16, 2004.
- Madden, M., "Vegetation Modeling, Analysis and Visualization in U.S. National Parks", International Society for Photogrammetry and Remote Sensing Congress, Istanbul, Turkey, July 14-23, 2004
- Madden, M. and R. Welch, "Fire Fuel Modeling in National Parks of the Southeast". Annual American Society for Photogrammetry and Remote Sensing, Denver, CO, May 23-28, 2004.
- Fleming, S., R. Welch, E. Lynn Usery, T. Jordan and M. Madden, "GIS Applications for military operations in coastal zones", Association of American Geographers, Philadelphia, PA, March 14-19, 2004.
- Jordan, T. and M. Madden, "Producing the Vegetation Map for the Great Smoky Mountains National Park", GIS in Teaching and Research Conference, Georgia Institute of Technology, Atlanta, GA, February 9-10, 2004.
- Madden, M., "Vegetation Databases for Great Smoky Mountains National Park", poster, All Taxa Biodiversity Inventory Annual Conference, Gatlinburg, TN, December 2-6, 2003.
- Welch, R. and M. Madden, "Remote Sensing and GIS Methodologies for Vegetation Mapping of Invasive Exotics", (**Invited Paper**), Ecological Society of America (ESA) and Weed Science Society of America (WSSA), 7th International Conference on the Ecology and Management of Alien Plant Invasions, Ft. Lauderdale, Florida, November 3-7, 2003.
- Madden, M., "Visualization and Analysis of Vegetation Patterns in National Parks of the Southeastern United States", International Society for Photogrammetry and Remote Sensing Commission IV Joint Workshop, Stuttgart, Germany, September 8-9, 2003.
- Madden, M. and R. Welch, "Analysis of Vegetation Distributions in Great Smoky Mountains National Park", Map Poster Presentation, Twenty-third ESRI International User Conference, San Diego, CA, July 7-11, 2003.

- Madden, M., "Spatial Analysis of Vegetation Distributions in National Parks of the Southeast", ASPRS Annual Conference, Anchorage, AK, May 5-9, 2003.
- <u>Madden, M.</u>, "Vegetation Mapping Using Different Scales and Applications for Invasive Exotic Plants", Detecting Invasive Exotic Plants: Approaches for the Florida Landscape Workshop and Conference, Miami, FL, February 12-14, 2003.
- Welch, R., T. Jordan and M. Madden, "Terrain Visualization Applied to Vegetation Studies of National Parks and Historic Sites", Joint International Symposium on Geospatial Theory, Processing and Applications, Ottawa, Canada, July 9-12, 2002.
- Madden, M. and R. Welch, "A GIS Approach to Fire Fuel Modeling in Eastern Deciduous Forests", ASPRS Annual Conference, Washington, D.C., April 19-26, 2002.
- Madden, M. and T. Jordan, "Spatiotemporal Analysis and Visualization for Environmental Studies", ISPRS Joint Workshop, Athens, GA, October 29-31, 2001.
- Welch, R., M. Madden and T. Litts, "Impact of ORVs on Vegetation in Big Cypress National Preserve", Map Poster Presentation, Twenty-First ESRI International User Conference, San Diego, CA, July 9-13, 2001.
- Welch, R., <u>M. Madden</u> and T. Litts, "Vegetation Mapping and Fire Fuel Modeling in Great Smoky Mountains National Park", Map Poster Presentation, Twenty-First ESRI International User Conference, San Diego, CA, July 9-13, 2001.
- Madden, M., T. Litts and R. Welch, "Off-road Vehicle (ORV) Trail Accuracy Assessment in Big Cypress National Preserve", ASPRS Annual Conference, St. Louis, MO, April 23-27, 2001.
- <u>Madden. M.</u> and R. Welch, "Aerial Photo Vegetation Assessment in the Everglades Ecosystem", Greater Everglades Ecosystem Restoration (G.E.E.R.), Naples, FL, Dec. 11-15, 2000.
- Welch, R., T. Jordan and M. Madden, "GPS Surveys, DEMs and Scanned Aerial Photographs for GIS Database Construction and Thematic Mapping of Great Smoky Mountains National Park", ISPRS Congress, Amsterdam, The Netherlands, July 16-23, 2000.
- Madden, M., P. Jackson and R. Welch, "Developing a Vegetation Classification System for Great Smoky Mountains National Park", ASPRS Annual Conf., Washington, D.C., May 22-26, 2000.
- Madden, M., C. McCormick and <u>R. Welch.</u> "Integrating GIS, GPS and Remote Sensing Technologies for Detecting and Mapping Exotic Species", (**Invited Paper**), Georgia Exotic Pest Plant Council Meeting, Athens, GA, November 12, 1999.
- <u>Madden, M.</u> "Concepts and Procedures used in Developing a Digital Photointerpretation Key for Everglades Vegetation", ASPRS Annual Conference, Portland, OR, May 17 21, 1999.
- Welch, R. and M. Madden, "A Seamless Database for the Florida Everglades", ASPRS Annual Conference, Portland, OR, May 17 21, 1999.
- Welch, R., T. Jordan and M. Madden, "Softcopy Photogrammetric Techniques for Compiling Resource Maps of Rugged Terrain Areas", ASPRS Annual, Portland, OR, May 17 21, 1999.
- Welch, R., M. Madden and R. Doren, "A Detailed Vegetation Database for the National Parks and Preserves of South Florida", George Wright Society Conference on Research and Resource Management in Parks and on Public Lands, Asheville, NC, March 22 26, 1999.
- Welch, R. and M. Madden, "Mapping Human Impact on the Florida Everglades", Annual Society of Wetland Scientists (SWS) Meeting, Anchorage, AK, June 8 12, 1998.
- Welch, R., M. Madden and R. Doren, "High Resolution Digital Databases for the Florida Everglades", ASPRS-RTI Annual Convention, Tampa, FL, March 30 April 4, 1998.
- Welch, R. and M. Remillard, "Interfacing Multimedia with GIS for Database Visualization", (Invited Paper), Joint International Society for Photogrammetry and Remote Sensing (ISPRS) Commission III/IV Workshop, Stuttgart, Germany, 17-19, September, 1997.
- Welch, R., M. Remillard and R. Doren, "Vegetation Databases and Maps for the Florida Everglades", Society of Wetland Scientists Annual Meeting, Bozeman, MT, June 1-6, 1997.
- McCormick, C.M. and M. Remillard, "Characterization of Exotics with High Resolution Data Sets in the Everglades", Society of Wetland Scientists Annual, Bozeman, MT, June 1-6, 1997.

- Welch, R., M. Remillard, C.M. McCormick, D. DeVries, D. Jones and T. Pernas, "Mapping Exotic Vegetation in National Parks/Preserves of South Florida", Florida Exotic Pest Plant Council Annual Symposium, Fort Myers, FL, May 20-22, 1997.
- Welch, R., M. Remillard and S. Hu, "GIS-Based Multimedia Approach to Vegetation Analysis", ACSM-ASPRS Annual Convention, Seattle, Washington, April 7 9, 1997.
- Welch, R., M. Remillard and R. Doren, "Large-Scale Vegetation Maps and Digital Databases for the Florida Everglades", (**Invited Paper**), ERIM Fourth Thematic Conference on Remote Sensing for Marine and Coastal Environments, Orlando, FL, March 17-19, 1997.
- Welch, R., M. Remillard, J. Alberts and A. Chalmers, "Georgia Coast Land Cover and Habitat Change", Annual National Oceanic and Atmospheric Administration (NOAA) Coastal Change Analysis Program (C-CAP) Meeting, Charleston, SC, February 12-14, 1997.
- Welch, R. and M. Remillard, "Monitoring Coastal Ecosystems: Integrated GPS, Image Processing and GIS Approaches", (Invited Paper), ECO-INFORMA, Lake Buena Vista, FL, Nov. 4-7, 1996.
- Welch, R. and M. Remillard, "GPS, Image Processing and GIS Techniques for Coastal Wetlands Mapping Applications", (**Invited Paper**), XVIII Congress of the International Society for Photogrammetry and Remote Sensing, Vienna, Austria, July 9-19, 1996.
- Welch, R. and M. Remillard, "New Maps and Databases for the Florida Everglades", ACSM-ASPRS Annual Convention, Baltimore, MD, April 22 24, 1996.
- Welch, R. and M. Remillard, "U.S. Government and Commercial Remote Sensing Satellite Programs: 1995-2000", (**Invited Paper**), International Mapping from Space Workshop, ISPRS Working Group IV/2, Anna University, Madras, India, November 27-December 1, 1995.
- Welch, R., M. Remillard, <u>J. Alberts</u> and A. Chalmers, "Monitoring Land Cover/Habitat Changes along the Georgia Coast using Remote Sensing and GIS", Poster Presentation, ERIM Thematic Conf. on Remote Sensing for Marine and Coastal Env., Seattle, WA, September 18-20, 1995.
- Welch, R., M. Remillard, J. Alberts and A. Chalmers, "Georgia Coast Land Cover and Habitat Change", Annual National Oceanic and Atmospheric Administration (NOAA) Coastal Change Analysis Program (C-CAP) Meeting, Charleston, SC, September 12-14, 1995.
- Remillard, M., "Remote Sensing and GIS for Regional/Global Scale Vegetation Mapping", (Invited Paper), Global Databases, International Society for Photogrammetry and Remote Sensing, Commission IV Working Group IV/6 Workshop, Boulder, CO, May 30 June 1, 1995.
- Welch, R. and M. Remillard, "Mapping the Florida Everglades", ACSM-ASPRS Annual Convention, Charlotte, NC, Feb. 27 March 2, 1995.
- Remillard, M. and R. Welch, "Remote Sensing as a Tool for Forest Fuel Hazard and Habitat Assessment", (Invited Paper), ACSM-ASPRS Annual, Charlotte, NC, Feb. 27 March 2, 1995.
- Remillard, M. and R. Welch, "Integration of GPS, Digital Image Processing and GIS for Resource Mapping Applications", ISPRS Comm. IV Symposium, Athens, GA, May 31-June 3, 1994.
- Welch, R. and M. Remillard, "Airborne and Satellite Remote Sensing for Studies of Wetlands in Southeastern United States", Annual AAG Conference, San Francisco, CA, April, 1994.
- Remillard, M., R. Welch, J. Alberts, A. Chalmers, B. Kjerfve and M. Cablk, "A Multi-Tiered Database for Comparative Coastal Marsh Studies", Oral and Poster presentations, (Awarded Best Plenary Paper). ERIM Second Thematic Conference on Remote Sensing for Marine and Coastal Environments, New Orleans, LA, Jan. 31-Feb. 2, 1994.
- Alberts, J., A. Chalmers, R. Welch, <u>M. Remillard</u>, B. Kjerfve and M. Cablk, "A Multi-tiered Digital Database for Comparative Studies of Georgia and South Carolina Marshes", International Estuarine Research Federation Conference, Hilton Head Island, SC, November 14-18, 1993.
- Remillard, M., J. Saveland and R. Welch, "Remote Sensing and GIS for Landscape Assessment of Fuel Hazard in Yellowstone National Park", Poster Presentation, Fire and Meteorology Conference, Jekyll Island, GA, October 27-29, 1993.

- Welch, R. and M. Remillard, "Digital Mapping, GIS and Environmental Monitoring using Personal Computers," (Invited Paper), VII Brazilian Remote Sensing Symposium, Curitiba, Parana, Brazil, May 10-14, 1993.
- Remillard, M., J. Saveland and R. Welch, "Landscape Analysis of Fuel Hazard for Yellowstone National Park", Poster, US Landscape Ecology, Oak Ridge, TN, March 24-27, 1993.
- Remillard, M. and R. Welch, "Remote Sensing and GIS for Aquatic Plant Management in Southeastern Reservoirs" (**Invited Paper**), NALMS Annual Southeastern Lakes Management Conference, Chattanooga, TN, March 11-13, 1993.
- Remillard, M. and R. Welch, "Integrated Image Processing/GIS Techniques for Monitoring Aquatic Resources," XVII Congress of the International Society for Photogrammetry and Remote Sensing, Washington, D.C., August 2-14, 1992.
- Welch, R., M. Remillard and J. Alberts, "Monitoring Coastal Ecosystems with an Integrated Remote Sensing/GIS Database," Poster Presentation, ERIM First Thematic Conference on Remote Sensing for Marine and Coastal Environments, New Orleans, LS, June 15-17, 1992.
- Remillard, M. and R. Welch, "Database Development and Land Use/Cover Changes in Wetland Environments of Southeastern USA," ACSM-ASPRS Annual Convention, Albuquerque, NM, February 29-March 5, 1992.
- Remillard, M. and R. Welch, "Integration of GPS, Photogrammetry and GIS for Studies of Coastal Wetlands," ACSM-ASPRS Annual Convention, Baltimore, MD, March 25-29, 1991.
- Welch, R. and M. Remillard, "Remote Sensing/GIS for Water Resource Management Applications in the Southeast," Georgia Water Resources Conference," Athens, GA, March 19- 20, 1991.
- Welch, R. and M. Remillard, "Remote Sensing and GIS Technologies for Monitoring Grass Carp Control of Macrophytes," (**Invited Paper**), 25th Annual Meeting of Aquatic Plant Control Research Program, U.S. Army Corps of Engineers, Orlando, FL, November 26-30, 1990.
- Welch, R., M. Remillard and N. Fernandes, "GIS Modeling of Water Quality Parameters for Large Reservoir Watershed Areas," ASCM- ASPRS Annual, Denver, CO, March 19-23, 1990.
- Welch, R. and M. Remillard, "Remote Sensing and GIS Technologies for Monitoring Reservoir Systems," (Invited Paper), Annual Meeting of the American Society of Limnology and Oceanography, Fairbanks, AK, June 18-22, 1989.
- Remillard, M. and R. Welch, "Regional Environmental Assessment using PC-Based Remote Sensing and GIS Technologies," (**Invited Paper**), Ninth Annual Meeting of the Society of Environmental Toxicology and Chemistry, Arlington, VA, November 13-17, 1988.
- Welch, R. and M. Remillard, "Comparative Evaluation of PC-Based Geographic Information Systems," International GIS Conference, San Francisco, CA, October, 1987.
- Welch, R., M. Remillard and R. Slack, "Integrating Remote Sensing and GIS Technologies for Resource Evaluation," ISPRS Intercommission III/IV Symposium at Annual ASPRS-ACSM Convention, Baltimore, MD, April, 1987.
- Welch, R. and M. Remillard, "Remote Sensing and GIS Techniques to Assess Aquatic Macrophyte Distributions in Lake Marion, South Carolina," Annual Landscape Ecology Symposium: The Influence of Land Use Pattern on Landscape Function, Charlottesville, VA, March, 1987.
- Remillard, M. and R. Slack, "Image Database Applications for the Management of Aquatic Vegetation and Water Quality," 9th Annual Applied Geographers Conference, United States Military Academy, West Point, NY, October 1986.
- Remillard, M., "Mapping Aquatic Vegetation in Lake Marion, South Carolina," South Carolina Aquatic Plant Management Society Meeting, Pine Island, SC, August 1986.
- Welch, R., M. Remillard, S.S. Fung and R. Slack. "Monitoring Aquatic Vegetation and Water Quality with a Geographic Information System," USDA and ASPRS, Geographic Information Systems Workshop, Atlanta, GA, April 1986.

- Remillard, M., G.K. Gruendling and D.J. Bogucki. "The Effect of Beaver (*Castor canadensis* KUHL) on Plant Community Succession in Wetlands," Poster, Wetlands and Wildlife Perspectives on Natural, Managed and Degraded Ecosystems, Charleston, SC, March 1986.
- Welch, R., M. Remillard, S.S. Fung and R. Slack. "Mapping Aquatic Macrophyte Distributions in Lake Marion, South Carolina from Aerial Photographs: 1972-1984," Wetlands and Wildlife Perspectives on Natural, Managed and Degraded Ecosystems, Charleston, SC, March 1986.
- Remillard, M. "Beaver (*Castor canadensis* KUHL) as Agents of Perturbation and Increased Landscape Heterogeneity," The First Annual Landscape Ecology Symposium: The Role of Landscape Heterogeneity in the Spread of Disturbance, UGA, Athens, GA, January, 1986.

PRESENTATIONS AT UNIVERSITIES, COLLOQUIUMS AND FORUMS:

- Madden, M. and S. Bernardes, "Seeing is Believing and Understanding: The role of geovisualization in research, education and outreach, (**Invited**), Colloquium, Department of Geography, University of Zurich, Zurich, Switzerland, 8 October 2018.
- Madden, M., "Geospatial Time-Series Maps, Images and Story Maps Depicting African-American History in Athens, GA", (**Invited**) USDA U.S. Forest Service Southern Research Station, Athens, Georgia 19 April 2018.
- Madden, M. "Animal Movement, Behavior and Habitat: Geospatial analysis of elephant-human conflict", (**Invited**) Honors Lunchbox Lecture, University of Georgia, Athens, Georgia, September 14, 2017.
- Madden, M. "Spatio-temporal Patterns of Animal Movements Related to Habitat Characteristics and Wildlife Conservation", (**Invited**) Primate Cognition and Behavior Laboratory Lecture, Department of Psychology, University of Georgia, Athens, Georgia, September 13, 2017.
- M. Madden, "Improved Understanding of Coastal History with Geospatial Technologies and Geovisualization: Case Study of Wormsloe State Historic Site on Isle of Hope, Georgia", (Invited Paper), University of South Carolina, Columbia, South Carolina, September 6, 2013.
- M. Madden, "Student Involvement in Research at the Center for Remote Sensing and Mapping Science, University of Georgia", (**Invited Paper**), Gainesville State College, Gainesville, Georgia, November 5, 2010.
- M. Madden and T. Jordan, "Natural and Cultural Resources of National Parks: Manual Maps to Geographic Object-Based Image Analysis and Geovisualization", (**Invited Paper**), Joseph W. Jones Ecological Research Center, Newton, Georgia, February 4, 2009.
- M. Madden, "Resource Mapping in National Parks: Transition from Manual Interpretation and Maps to Geographic Object-Based Image Analysis and Geovisualization". (**Invited Paper**), CAGIS Seminar, Center for Applied Geographic Information Science, University of North Carolina, Charlotte, North Carolina, December 12, 2008.
- M. Madden, and T. Jordan, "Research and Teaching at the University of Georgia Geography's Center for Remote Sensing and Mapping Science", EARTH University, Guisimo, Costa Rica, August 11, 2008.
- M. Madden, C.P. Lo and <u>T. Jordan</u>, "Stereo Visualization with a GeoWall in the Geography Geology Classrooms", Learning Technology Showcase, University of Georgia, Athens, GA, October 9, 2007.
- M. Madden, T. Jordan, J. Corn, D. Stallknecht, S. Gibbs, J. Masour, Bo Xu and R. Smith, "GIS and Remote Sensing for Wildlife Disease Studies", Poster, BHSI Annual Spring Symposium, Biomedical and Health Sciences Institute, College of Public Health and UGA Ecology of Infectious Disease Inititative, University of Georgia, April 16-17, 2007.
- <u>Madden, M.</u>, "Geospatial Tools in Disease Studies", (**Invited Paper**), Ecology of Infectious Disease Lecture Series, Sponsored by UGA Biomedical and Health Sciences Institute and the College of Publich Health, September 6, 2006.

- <u>Madden, M.</u>, "Professional Development Considerations of a Prospective National Geospatial Technology Resource Center", (**Invited Paper**), Denver, Colorado, August 16-17, 2006.
- Madden, M. and T. Jordan, "Vegetation Mapping of Tribal Lands", Council Meeting, Eastern Band of Cherokee Indians, Cherokee, North Carolina, April 26, 2006.
- M. Madden, T. Jordan, J. Corn, D. Stallknecht, S. Gibbs, J. Masour and Bo Xu, "GIS Mapping and Analysis of Wildlife Diseases: Cooperative Efforts of the UGA Southeastern Cooperative Wildlife Disease Study and the Center for Remote Sensing and Mapping Science", Poster, Ecology of Infectious Disease Lecture Series, Biomedical and Health Sciences Institute and the College of Public Health, University of Georgia, April 12, 2006.
- Madden, M. and T. Jordan, "Remote sensing and GIS for Mapping National Parks", (Invited_Paper), Revitalization of Traditional Cherokee Artisan Resources (RTCAR) Meeting, Eastern Band of Cherokee Indians, Cherokee, North Carolina, May 10, 2005.
- Madden, M., "Remote Sensing and GIS for Mapping National Parks", (**Invited Paper**), Learning in Retirement monthly lunch series, Athens, Georgia, February 2, 2005.
- Madden, M., "GIS for Resource Management Decisions", (Invited Paper), Georgia Department of Natural Resources GIS Users Group Meeting, Statesboro, Georgia, October 6, 2004.
- Madden, M., "Spatial Analysis/Remote Sensing Techniques to Address Environmental Problems and Issues", Ecology 3500 guest lecture, The University of Georgia, Athens, Georgia, July 29, 2004.
- Madden, M., "Research at the Center for Remote Sensing and Mapping Science: 20 Years and Counting", Geography Department Colloquium, The University of Georgia, Athens, Georgia, February 27, 2004.
- Madden, M., "Mapping and Analysis of Vegetation in National Parks of the Southeastern United States", (**Invited Paper**) as Visiting Scholar sponsored by the Departments of Geography and Womens Studies, James Madison University, Harrisonburg, Virginia, October 8, 2002.
- Madden, M., "GIS and Vegetation Studies for Wildlife Applications", (**Invited Paper**), Lecture in Wildlife Ecoloogy class as a Visiting Scholar, James Madison University, Harrisonburg, Virginia, October 8, 2002.
- Madden, M., "Remote Sensing and GIS for Vegetation Studies", (Invited Paper), Lecture in Geography GIS class as a Visiting Scholar, James Madison University, Harrisonburg, Virginia, October 8, 2002.
- Madden, M., "Vegetation Mapping and GIS Database Development for Managing National Parks", (Invited Paper), Ecology 8000 Seminar, The University of Georgia, Athens, Georgia, September 7, 2000.
- Madden, M., "Vegetation Mapping in the Everglades and the Great Smoky Mountains National Parks", (**Invited Distinguished Visiting Alumni Lecture**), State University of New York, Plattsburgh, New York, October 18, 1999.
- Madden, M., "Vegetation Studies using Satellite Data and Computer Analysis: Starting with a Biology Degree from Plattsburgh State", (**Invited Lecture**), Lecture in General Biology class as a Distinguished Visiting Alumna, State University of New York, Plattsburgh, New York, October 18, 1999.
- Madden, M., "Wetlands Vegetation Mapping using Remote Sensing, GPS and GIS", (Invited Lecture), Lecture in Wetlands Ecology class as a Distinguished Visiting Alumna, State University of New York, Plattsburgh, New York, October 19, 1999.
- Madden, M., "Remote Sensing, GPS and GIS for Applications in Natural Resources Management", <u>Invited Paper</u>, Remote Sensing lecture as a Distinguished Visiting Alumna, State University of New York, Plattsburgh, New York, October 18, 1999.
- <u>Remillard, M.</u>, "Vegetation Mapping and GIS for Habitat Assessment", (**Invited Paper**), Oconee National Audubon Society Meeting, Athens, Georgia, August 7, 1997.

- Welch, R., M. Remillard and R. Doren, "The CRMS-NPS Cooperative Geographic Information System (GIS) Database and Vegetation Mapping Project for South Florida's National Parks and Preserves", (Invited Paper), South Florida Resources Center, Everglades National Park, Homestead, Florida, December 10, 1996.
- Remillard, M., "Remote Sensing and Habitat Mapping in the Everglades", (**Invited Paper**), Speaker Seminar Series, Department of Biology, University of Miami, Coral Gables, Florida, November 11, 1996.
- Remillard, M., "Remote Sensing and GIS for Vegetation Mapping in the Everglades", (Invited Paper), Distinguished Speaker Series in Forest Ecology and Remote Sensing, Department of Biology, University of West Virginia, Morgantown, West Virginia, October 14, 1996.
- Welch, R., M. Remillard and R. Doren, "The CRMS-NPS Cooperative Geographic Information System (GIS) Database and Vegetation Mapping Project for South Florida's National Parks and Preserves", (Invited Paper), South Florida Resources Center, Everglades National Park, Homestead, Florida, March 27, 1996.
- Remillard, M., "Vegetation Database Development for the Everglades", (Invited Paper), J.W. Jones Research Center, Newton, Georgia, March 7, 1996.
- Remillard, M. and R. Welch, "Everglades Classification and Mapping" (Invited Paper), Colloquy of Vegetation-Everglades Research (COVER) meeting, South Florida Water Management District, West Palm Beach, Florida, May 22, 1995.
- Welch, R. and M. Remillard, "Digital Mapping Techniques for Assessing Vegetation in the Everglades, Big Cypress and Biscayne National Parks/Preserves", (Invited Paper), Landscape Modeling Workshop/Symposium, South Florida Water Management District, West Palm Beach, Florida, Dec. 15-16, 1994.
- Remillard, M., "GIS Database Development for Vegetation Studies", (**Invited Paper**), Horticulture Seminar Series, Horticulture Department, The University of Georgia, Athens, Georgia, October 25, 1994.
- Remillard, M., "The Use of Geographic Information Systems in Ecology", (Invited Lecture), General Biology 103 Class, Dekalb College, Gwinnett Campus, Lawrenceville, Georgia, July 30, 1993.
- Remillard, M., "Integration of Remote Sensing and GIS for Natural Resource Management Applications," (Invited Paper), Fire and Meteorology Spatial Analysis Workshop, USDA Forest Service, Tucson, Arizona, February 26-28, 1992.
- Remillard, M. and R. Welch, "Macrophyte Mapping of Lake Marion," (**Invited Paper**), Thirteenth Annual Meeting of the South Carolina Aquatic Plant Management Society, Lake Moultrie-Pinopolis, South Carolina, August 22-23, 1991.
- Remillard, M., "Geographic Information Systems: Applications and Practice," (Invited Paper), Georgia Planning Association and South Carolina Chapter of American Planning Association, Savannah, Georgia, October 10-12, 1990.
- Welch, R. and M. Remillard, "Geographic Information Systems: Educational and Training Opportunities at The University of Georgia," (**Invited Pape**r), Georgia Planning Association and South Carolina Chapter of American Planning Association, Joint Fall Conference, Savannah, Georgia, October 10-12, 1990.

BROADCAST INTERVIEWS

Madden, M and F. Smith. "Conversation about Maps, Multi-generational Education and African American History in Athens, Georgia", (**Invited**) The Daniel's Show: Parenting 101 with the Daniels, Live Interview with hosts Valdron and Shirley Daniel, Athens, Georgia, FM 92.7/AM 1470 WXAG, April 27, 2018.

Madden, M. "Time-Series Visualization of the Cultural and Natural Landscape Surrounding the Old Athens Cemetery: 1800s to Present", (**Invited**) Live Interview with hosts Rose Scott and Jim Burress, National Public Radio (NPR) Closer Look, Atlanta, Georgia, 90.1 FM WABE, September 15, 2017.

TEACHING AND STUDENT ADVISEMENT:

- Spring 2018 and 2016, Instructor of Record with D. Mishra, GEOG 8450, Geospatial Techniques in Landscape Analysis.
- Fall 2018, 2017, 2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008 and 2009. Instructor of Record, Geography, GEOG 4330/6330 Aerial Photographs and Image Interpretation with laboratory section.
- Spring 2017, 2015 and 2014. Instructor of Record with D. Mishra, GEOG 8550, Seminar in Remote Sensing II.
- Spring 2013, 2012, 2011, 2010 and 2009 and Fall 2007 and 2006, Created New Course and Instructor of Record, GEOG 8450, Geospatial Techniques in Landscape Analysis.
- Spring 2009, 2008, 2007, 2006 and 2005. Instructor of Record, Geography, GEOG 4350/6350 Remote Sensing of Environment.
- Fall 2006 to present. Instructor of Record, Geography, GEOG 8590, Directed Problems in Geographic Techniques.
- Spring 2011, 2010, 2009 and 2008, Guest lectures with Thomas Jordan, The basics of spatial perspectives, GPS basics and practice, Mapping and GIS basics, Anthropology 6620 Methods in Social Anthropology.
- Fall 2006 present, Faculty Advisor to UGA Student Chapter of American Society for Photogrammetry and Remote Sensing (ASPRS).
- Fall 2006, Formed UGA Student Chapter of American Society for Photogrammetry and Remote Sensing (ASPRS) with 12 charter members.
- Summer and Fall 2009, Supervisor of CRMS Internship funded by GeorgiaView, Undergraduate student Steven Hanley (currently employed by a county GIS department in Tennessee).
- Summer 2007, Supervisor of CRMS Internships partially funded by GeorgiaView, Undergraduate students Charles Jordan (currently applying for UGA Graduate program in GIScience), Ben Downey, Amanda Humphries (currently employed by iCubed, Inc. 2008-present) and James Trice (currently employed by the National Geospatial-Intelligence Agency, Washington, D.C. 2008-present).
- Spring 2007, GEOG 3990, Supervisor of CRMS Internship funded by GeorgiaView, Undergraduate students Robin Rodgers currently employed by U.S. Army Corps of Engineers (2008 to present) and Hunter Allen, currently employed by National Oceanic and Atmospheric Administration (NOAA) (2010 to present).
- Fall 2006, GEOG 3990, Supervisor of CRMS Internship funded by GeorgiaView, Undergraduate students Jennifer Pierce, employed by Fugro Inc. (2007-2010) and DigitalGlobe (2010 to present) and Tyler Plain, currently employed by iCubed (2008-present).
- Summer 2006, GEOG 3990, Supervisor of CRMS Internship, Alex McCracken, currently employed by iCubed, Inc. (2007-present) and George Daigh, currently employed by a real estate firm in South Carolina as GIS technician (2009-present).
- Spring 2005 and 2006. Instructor with Liz Kramer, Ecology, GEOG 8590/ECOL 8990 GIS for Environmental Planning.
- Fall 2005, GEOG 3990, Supervisor of CRMS Internship, Douglas Varnum.
- 2/93 12/03. Assist in Laboratory Instruction and Lectures in Remote Sensing of Environment (GEOG 4350/6350) and Remote Sensing with GIS Applications (GGY 8350) taught by Dr. Roy Welch, Department of Geography, The University of Georgia.

6/88 - Present. Instructor, Short Courses Sponsored by the Center for Remote Sensing and Mapping Science, Department of Geography.

pc ARC/INFO Starter Courses:

June 21-24, 1988, August 9-12, 1988, January 17-20, 1989, March 21-14, 1989, June 20-23, 1989, August 14-16, 1989, November 6-8, 1989, June 18-20, 1990, August 13-15, 1990, November 5-7, 1990, January 14-16, 1991, April 8-10, 1991, June 10-12, 1991, August 12-14, 1991, November 4-6, 1991, January 13-15, 1992, June 15-17, 1992, August 24-26, 1992, January 11-13, 1993, June 15-17, 1993, August 9-11, 1993, June 20-23, 1994, August 22-24, 1994

pc ARC/INFO Advanced Courses:

November 9-10, 1989, June 21-22, 1990, August 16-17, 1990, November 8-9, 1990, January 17-18, 1991, April 11-12, 1991, June 13-14, 1991, August 15-16, 1991, November 7-8, 1991, January 16-17, 1992, June 18-19, 1992, August 24-26, 1992, January 11-13, 1993, June 18-19, 1993, August 12-13, 1993, June 24-25, 1994, August 25-26, 1994

Desktop Mapping with SPOT Image Data:

November 9-11, 1988, August 8-10, 1990, October 18-20, 1989

Desktop Mapping with Stereo Image Data in Digital Formats:

March 4, 1992 (ASPRS/ACSM Annual Convention, Albuquerque, NM) August 2, 1992 (ISPRS Congress, Washington, D.C.)

Geospatial Tools for Field Data Workshop:

Workshop for Partnerships for Enhancing Expertise in Taxonomy (PEET), Athens, Georgia, March 27 and 29, 2007

GIS for Environmental Applications:

Course developed for training of U.S. Environmental Protection Agency (EPA) Region 4, Atlanta, Georgia, June 25, 2002

Image Processing and GIS for Natural Resource Management:

Sept. 11-13, 1989, February 20-22, 1990, June 26-28, 1990, February 26-28, 1991, July 24-26, 1991, February 19-21, 1992, July 15-17, 1992, October 6-8, 1992

Integration of GPS, Digital Image Processing and GIS for Resource Management and Environmental Studies:

February 20-22, 1996, August 26-28, 1997, August 19-21, 1998, August 3-5, 1999, January 24-26, 2000, February 28 – March 2, 2001, October 27-29, 2003, September 8-10, 2004, October 27-29, 2004, August 23-25, 2005

Integration of Remote Sensing and GIS for Environmental Monitoring:

Course developed with funding from U.S. Agency for International Development (AID) for special training of 28 Russian managers/scientists from the Tyumen Region of Russia, conducted at the Georgia Center for Continuing Education, The University of Georgia, October 23-30, 1994

Integration of Remote Sensing/GIS for the Sustainable Development and Management of Natural Resources:

Course developed with funding from U.S. Agency for International Development (AID) for training of 26 Russian managers/scientists from the Tyumen Region of Russia, conducted at the Institute for Earth and Cryosphere, Tyumen, Russia, June 12-14, 1995.

Introduction to ArcView for Highschool Teachers:

June 22, 2005

Introduction to Image Processing and GIS:

August 24-26, 1993, August 9-11, 1994, August 22-24, 1995, August 21-23, 1996

Introduction to Digital Mapping and GIS:

May 30, 1994 (ISPRS Commission IV Symposium, Athens, GA)

Merging Satellite Images with DEMs for Terrain Visualization and GIS

Applications: August 30, 1994 (EOSAT Landsat and Beyond Conf., Baltimore, MD)

- 6/85 12/92. Laboratory Instructor in GIS (GGY 824) and Remote Sensing of Environment (GGY 423/623) taught by Dr. Roy Welch, Department of Geography, The University of Georgia, Laboratory Instructor, General Biology (BIO 104), Department of Zoology, The University of Georgia.
- 9/82 6/84. Laboratory Instructor, General Biology (BIO 102) and General Ecology (BIO 350), Department of Biology, State University of New York.

CURRENTLY SERVING AS MAJOR ADVISOR FOR FOLLOWING STUDENTS:

(4 Ph.D. and 3 MS)

Amanda Aragon, Ph.D. (Geography)

Philip Ashford, M.S. (Geography)

Danielle Haskett, Ph.D. (Geography), ABD

Shannon Healy M.S. (Geography)

Caitlin Mertzlufft, Ph.D. (Integrative Conservation-Geography), ABD

Caren Remillard, Ph.D. (Geography)

Austin Stone, M.S. (Geography)

STUDENT COMMITTEES CURRENTLY SERVING:

Subash Dahal, Ph.D. (Warnell School of Forestry and Natural Resources)

Rebecca Klee, Ph.D. (Plant Biology)

Abhishek Kumar, Ph.D. (Geography)

Taeyoon Lee, Ph.D. (Warnell School of Forestry and Natural Resources)

Lishen Mao, Ph.D. (Geography)

Flavia Dias de Souza Moraes, Ph.D. (Geography)

Nicholas Meng, M.S. (Warnell School of Forestry and Natural Resources)

Nicholas Morgan, M.S. (Geography)

Caroline Narron, Ph.D. (Geography)

Doori Oh, Ph.D. (Geography)

Colby Peffer, Ph.D. (Marine Science)

Dina Nethisa Rasquinha Ph.D. (Integrative Conservation-Geography)

Shingo Obata, Ph.D. ((Warnell School of Forestry and Natural Resources)

Ye Tian, Ph.D. (Geography)

Samuel Tingle, M.S. (Geography)

Suraj Upadhaya, Ph.D. (Warnell School of Forestry and Natural Resources)

Xuan Zhang, Ph.D. (Geography)

UNDERGRADUATE STUDENT MENTOR: Honors Thesis and Center for Undergraduate Research Opportunities (CURO) Students

Nirav Ilango, BS Computer Science and Geography, CURO Honors Student (2016-2017)

Adam King, BS/MS Computer Science, Honors Program (2016-2018)

Nicholas (Hollis) Neel, BS Mathematics, Honors Program (2016-2017)

Caleb Ashmore Adams, BS Computer Science and Physics (2016-2017)

James Hugh Roach, BA Computer Science (2016-2017)

EXTERNAL STUDENT COMMITTEES SERVING and SERVED:

Frederick Ayivi, Ph.D. University of North Carolina at Greensboro (2012 – present)

Ovidiu Csillik, Ph.D. Doctoral College GIScience, University of Salzburg, Austria (2016-present)

Kunwar K. Singh, Ph.D. University of North Carolina at Charlotte (Graduated 2014)

Taixia Wu, Ph.D., Peking University, China (Graduated 2012)

Yan Wang, Ph.D., School of Remote Sensing Information and Engineering, Wuhan University, China (Graduated 2011)

ADVISOR FOR POSTDOCTORAL RESEARCHERS:

Nancy O'Hare (Ph.D. Geography, University of Georgia) 2015-2016

Andrea Presotto (Ph.D. Geography, University of Georgia and Ph.D. Geography, University of Sao Palo, Brazil) 2015-2016

Ahmed Wahid (Ph.D. Geology, Port Said University, Egypt) 2014-2016

David Cotten (Ph.D. Astrophysics, University of Georgia) 2014-2016

Roberta Salmi (Ph.D. Anthropology, University of Milan, Italy) 2014-2016

Chiaoying Chou (Ph.D. Clemson University) 2014

Sergio Bernardes (Ph.D. Geography, University of Geography) 2013-2014

Ricardo Rodrigues dos Santos, (Ph.D., Geography, Universidade Federal do Maranhao (UFMA) 2013-2014, Science without Borders Program of the Ministry of Science from Brazil (CNPq), Chapadinha-MA, Brazil (1-year postdoctoral research)

Andrea Presotto, (Ph.D. Sao Paulo University, Brazil) 2011

Byungyun Yang, (Ph.D. Geography, University of Georgia) 2011-2012

MAJOR ADVISOR FOR GRADUATED STUDENTS (Since appointed faculty in 2005, 21 Ph.D. and 18 MS/MA, Total 39):

Steve Padgett-Vasquez, Ph.D. (Integrative Conservation-Geography), May 2019,

Jiaying He, M.S. (Geography) December 2018, "Spatial and Temporal Patterns of Vegetation Disturbance in Great Smoky Mountains National Park", Ph.D. Student at the University of Maryland.

- Andrew Knight, M.S. (Geography) August 2018, "Detection of Landmine-Like Targets using Data Collected by Unmanned Aerial Systems" Photogrammetrist, Department of Transportation, Fort Carson, Nevada.
- Mingshu Wang, Ph.D. (Geography), July 2018, "Polycentric Urban Development and its Socioeconomic and Environmental Impacts". Assistant Professor at ITC, University of Twente, The Netherlands.
- Robert Ryan Lash, Ph.D. (Geography), August 2017, "Geocoding of Place Names for Collecting, Mapping, Managing and Communicating Public Health Information", Health Scientist (GS-0601), Geographic Medicine and Health Promotion Branch, Centers for Disese Control and Prevention (CDC), Atlanta, GA.
- Shadrock Roberts, Ph.D. (Geography), December 2016, "Geographic Data to Support International Aid and Relief: From GIS to Crowdsourcing in a Complex Organizational Context". Director, Resilience Network Initiative, Ushahidi.
- Robert Dean Hardy, Ph.D. (Integrative Conservation-Geography), August 2016, "Rough Seas Ahead: Navigating the Inequalities of Future Sea-Level Rise". Postdoctoral Researcher, National Socio-Environmental Synthesis Center (SESNYC), Annapolis, Maryland.
- Alessandro Pasqua, Ph.D. (Geography), December 2015, "Investigating Historical Rice Cultivation at Wormsloe Historic Site, Georgia using Advanced Geographic Techniques and Archaeological Methods", Mapping Officer at the Forestry Commission Scotland in Edinburgh, Scotland responsible for woodland mapping of Great Britain for the National Forestry Inventory Programme.
- Andrea Presotto, Ph.D. (Geography), 2015, "From Maze to Maps: Geospatial Technologies and the Pattern of Navigation in Wild Animals", Assistant Professor, Salisbury University, MD.
- Nancy Kay O'Hare, Ph.D. (Geography), 2015, "Amphibian Diversity in the Georgia Sea Islands: Land-Use History and Landscape Context", Postdoctoral Research rata UGA-CGR.

- Alexander Devine, M.S. (Geography), 2015, "Geospatial Analysis of Solar Photovoltaic Suitability for Solar Photovoltaic Farms (SPVF)", Data Manager at Plumb Creek, Athens, Georgia (2014-present).
- Amber Ignatius, Ph.D. (Geography), 2015, "Cumulative Impacts of Small Reservoir Construction: Land Cover Change, Evaporation and Water Quality in the Georgia Piedmont, USA", Postdoctoral Researcher at EPA (2015-2017), Assistant Professor, Univ. of North Georgia.
- Binita KC, Ph.D. (Geography) Co-Advisor with Marshall Shepherd, 2014, is a Post-Doctoral Associate in the Resilient Cities Lab at Northeastern University.
- Mingshu Wang, M.S. (Geography), 2014, "Geospatial Modeling of the Biophysical Environments and Mangrove Biomass of the Sunda Banda Seascape, Indonesia", Programmer at Citi Bank, Delaware (2014-2015) and currently Ph.D. student in Geography, University of Georgia.
- Caren Remillard, M.S. (Geography), 2014, "Of Monkeys and Men: Geospatial Habitat Assessment for Capuchin Conservation", Center Lead for NASA DEVELOP UGA and Ph.D. student in UGA Geography.
- Allison Howard, Ph.D. (Psychology) 2014, Co-Advisor with Dorothy Fragaszy, 2014, "Spatial Cognition, Movement and use of Space in Bearded Capuchin Monkeys", Postdoctoral Researcher in Spatial & Movement Ecology, Department of Biology, University of Maryland (2014-2017), Instructor, University of Georgia, Department of Psychology (2017-present).
- Sergio Bernardes, Ph.D. (Geography), 2013, "Climatic Variability and Changes in Greenness and Primary Productivity in the Southeastern United States", Postdoctoral Research Associate, Center for Geospatial Research, Department of Geography, UGA (2013-2014), Postdoctoral Research Associate, NASA Goddard Flight Center, Maryland (2014-2016), Associate Director of the UGA Center for Geospatial Research and Assistant Adjunct Professor of Geography (2016-present).
- Christopher Strother, M.S. (Geography), 2013, "Detection and Analysis of Extraordinary Tree Heights in the Great Smoky Mountains National Park using Regional Scale LiDAR Data", Ph.D. student in UGA Geography and GIS Laboratory Manager, University of North Georgia, Gainesville, GA.
- Ping Yin, Ph.D. (Geography), Co-Advisor with Lan Mu, 2012, "Geographical information systems for spatial disease cluster detection, spatio-temporal disease mapping, and health service planning", He was a Visiting Assistant Professor, University of North Carolina at Greensboro and is currently Assistant Professor at the University of Mary Washington, Fredericksburg, Virginia.
- Byungyun Yang, Ph.D. (Geography) 2011, "Geographic Information Science for Sustainable Development, Tourism and Management Of Coastal Barrier Islands", Postdoctoral Researcher, Center for Remote Sensing and Mapping Science (CRMS), Department of Geography, University of Georgia (2011-2012, 2013-2014), Visiting Assistant Professor, University of South Florida, Department of Geography, Environment and Planning, Tampa, FL (2012-2013), Visiting Instructor, Portland State University (2013-2014), Temporary Assitant Professor, University of Delaware (2014-2016), Tenure Track Assistant Professor, DePaul University, Chicago, Illinois (2016-present).
- Nicholas Kruskamp, M.A. (Geography) 2011, Image Analyst, Army Geospatial Center, U.S. Army Corps of Engineers, Alexandria, VA (2011-2016), Ph.D. Student, Center for Geospatial Analytics, North Carolina State University (2016-present).
- Carey Burda, M.S. (Geography) 2011, Volunteer GIS Assistant, Blue Ridge Parkway, Asheville, NC (2011-2016), Research Professional II, Center for Geospatial Research, Department of Geography, University of Georgia (2015-2016).

- Dong Chen, M.S. (Geography) 2011, Ph.D. (2017) and current postdoctoral research associate, Department of Geographical Science, Univ. of Maryland
- Matthew Miller, Ph.D. (Geography), Co-Advisor with Kathleen Parker, 2010, Tenure Track Assistant Professor of Environment, Geography and Marine Sciences, Southern Connecticut State University.
- Leah Sandmann, M.S. (Geography) 2010, Image Analyst, MDA, Inc., Washington, D.C.
- Hunter Allen, M.S. (Geography) 2009, "Geovizualization of Forest Dynamics: Hemlock Wooly Adelgid Damage in Great Smoky Mountains National Park", Geovisualization Technician, National Oceanic and Atmospheric Administration (NOAA), Washington, D.C.
- Kyung-Ah Koo, Ph.D. (Ecology), Co-Advisor with Bernard Patten 2009, Postdoctoral Research Associate, Dept. of Marine Science, University of Georgia, Athens, GA, currently Assistant Professor, Kyung Hee University, Republic of Korea
- Doug Lockhart, M.S. (Geography) 2009, GIS Technician, U.S. Census Bureau, Washington, D.C. now with the USDA
- Minho Kim, Ph.D. (Geography) 2009, Former Research Scientist, Division of Adult and Community Health, Centers for Disease Control and Prevention (CDC), Atlanta, GA, currently Associate Professor, Dept. of Geography, Sangmyung University, Republic of Korea. Also Assoicate Editor of *ISPRS Journal of Photogrammetry and Remote Sensing*.
- Ashley Scruggs, M.S. (Geography) 2008
- Christopher Watson, Ph.D. (Geography) 2008, Southeast Program Manager, National Parks, Conservation Association, Knoxville, TN
- Bo Xu, Ph.D. (Geography) 2008, Assoc. Professor, Dept. of Geography and Environmental Studies, California State University at San Bernardino
- Jitendra Sharma, Ph.D. (Geography) 2008, Professor and Eminent Scholar, Dept. of Science, Technology, Engineering and Math, University of North Georgia.
- Bo Xu, M.S. (Geography) 2007, Assist. Professor, Dept. of Geography and Environmental Studies, California State University at San Bernadino
- Mario Giraldo, Ph.D. (Geography) 2007, Assoc. Professor, Dept. of Geography and Anthropology, Kennesaw State University, Kennesaw, GA (2007-2012), California State University at Northridge, Dept. of Geography and Environmental Studies (2012-present)
- Adam Hinely, M.S. (Geography) 2006, GIS Mgr., Fort Gordon, August, GA now GIS Specialist, Alabama Power, Birmingham, AL.
- Louis Manglass, M.S. (Geography) 2006, GIS Data Mgr. Athens Clarke Police Department,
- Jason Ridgeway, M.A. (Geography) 2006, Assistant Professor, Depart. Geography and Environmental Engineering, US Military Academy West Point.
- John Dolezal, M.A. (Geography) 2005, Production Specialist, Partner Software/Harris Computer, Inc. Athens, GA

EXTERNAL STUDENT COMMITTEES SERVED:

Ahmed Mahgoub, Ph.D., Universite Laval, Canada, External reviewer of dissertation (2015) Rabindra Kumar Barik, Ph.D., Notilal Nehru national Institute of Technology, Allahabad, India (2012) – External reviewer of dissertation (2013)

Saumya Singh, Ph.D. Motilal Nehru Institute of Technology, Allahabad, India (2010) Anuj Bariar, Ph.D. Motilal Nehru Institute of Technology, Allahabad, India (2008) James Trice III, M.A. (Geography) North Carolina Central University (2008)

STUDENT COMMITTEES SERVED:

2019 Dorothy (Holly) Hutcheson, M.S. (Geology) 2019 James Rhynold, M.S. (Warnell School of Forestry and Natural Resources)

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2018 Emily Sullivan, M.S. (Geography)
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- 2018 Christine Burns, M.S. (Marine Science)
- 2018 David Rickless, M.A. (Geography)
- 2018 Ashton Griffen, Ph.D. (Odum School of Ecology)
- 2017 Shuvankar Gosh, Ph.D. (Geography)
- 2017 Chenxiao Guo, Ph.D. (Geography)
- 2017 Samuel Weber, M.S. (Geography)
- 2017 Brian Davis, M.S. (Warnell School of Forestry and Natural Resources)
- 2017 Ike Astuti, Ph.D. (Geography)
- 2017 Zenne Ucar, Ph.D. (Warnell School of Forestry and Natural Resources
- 2016 Marcus William, Ph.D. (Geography)
- 2016 Eduardo Rendon, MEPD (College of Environment + Design)
- 2016 Emily Snow Castellucci, Ph.D. (Geography)
- 2015 Pradeep Kumar Ragu Chanthar, M.S. (Warnell School of Forestry and Natural Resources)
- 2015 Li Wang, MS (Geography)
- 2015 Xuebin Wei, Ph.D. (Geography)
- 2014 Wei Yang, Ph.D. (Geography)
- 2014 Charles Jordan, M.S. (Warnell School of Forestry and Natural Resources)
- 2014 Neil Debbage, Ph.D. (Geography)
- 2013 Yijie Chen, M.S. (Geography)
- 2013 Shuyuan Zhu, M.S. (Geography)
- 2013 Bradley Suthers, Ph.D. (Geography)
- 2013 Hojung Kim, Ph.D. (Warnell School of Forest Resources)
- 2012 Emily Snow, M.S. (Geography)
- 2012 Woo Jang, Ph.D. (Geography)
- 2012 Christine Hladik, Ph.D. (Marine Science)
- 2012 James Rogers, M.S. (Geography)
- 2012 Roy Lou, M.S. (Geography)
- 2011 Andrew Parker, M.S. (Geography)
- 2010 Lara Jackson, M.A. (Plant Sciences)
- 2010 C. Jackson, Ph.D. (Geology)
- 2009 Kevin Krivacsy, M.A. (Geography)
- 2009 Benjamin Coleman, M.S. (Geography)
- 2009 Hwahwan Kim, Ph.D. (Geography)
- 2009 Laura Knight, Ph.D. (Geography)
- 2009 Tripp Lowe, Ph.D. (Warnell School of Forest Resources)
- 2009 Katie Price, Ph.D. (Geography)
- 2008 Mario Donoso, Ph.D. (Geography)
- 2008 Sheika Aragundi, Ph.D. (Geography)
- 2008 Allison Ginn, M.A. (Warnell School of Forest Resources)
- 2008 James Kellner, Ph.D. (Plant Sciences)
- 2008 Fuyan Liang, Ph.D. (Geography)
- 2007 Rungxia (Tiffany) Li, Ph.D. (Warnell School of Forest Resources)
- 2007 Yanbing Tang, Ph.D. (Geography)
- 2006 Qingmin Meng, Ph.D. (Warnell School of Forest Resources)
- 2006 Liang Zou, Ph.D. (Geography)
- 2006 Josh Kincaid, Ph.D. (Geography)
- 2006 Yangrong, Ling, Ph.D. (Geography)
- 2006 Kevin Samples, M.A. (Ecology)

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2005 William Hart, M.L.A. (Environmental Design)
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- 2005 Matt Miller, M.S. (Geography)
- 2005 Joel Sabins, M.S. (Geography)
- 2005 Yanfen Le, Ph.D. (Geography)
- 2005 Torsten Ernst, M.S. (Geography)
- 2004 Steven Fleming, Ph.D. (Geography)
- 2004 Heather Russell, M.A. (Geography)
- 2004 David Marr, M.S. (Geography)
- 2004 Tu Bei, M.S. (Geography)
- 2004 Jimou Choi, Ph.D. (Geography)
- 2003 Mario Giradlo, M.S. (Geography)
- 2001 Leslie Edwards, Ph.D. (Geography)
- 2001 Robin Dukes, M.A. (Geography)
- 2001 Akira Hirano, Ph.D. (Geography)
- 2001 Rakesh Malhotra, Ph.D. (Geography)
- 1999 William Noakes, M.A. (Geography)
- 1999 Sydney Bacchus, Ph.D. (Ecology)
- 1999 Owen Kinney, M.A. (Ecology)
- 1999 Janna Masour, M.A. (Geography)
- 1999 Candace Stoughton, M.A. (Geography)
- 1998 Cheryl McCormick, M.A. (Geography)
- 1998 Deanna Hurst McCay, Ph.D. (Geography)
- 1998 Hylnur Oskarrson, Ph.D. (Ecology)
- 1998 Jonathan Smith, Ph.D. (Geography)
- 1998 Brian Bossak, M.A. (Geography)
- 1998 Lee Carrubba, Ph.D. (Ecology)
- 1998 Marion Dobbs, Ph.D. (Ecology)
- 1998 Jeanne Epstein, M.A. (Geography)
- 1998 Shunfu Hu, Ph.D. (Geography)
- 1998 Andrew Thompson, M.A. (Forestry)
- 1998 Tracy Tuberville, M.A. (Conservation Ecology)
- 1997 Thomas Litts, M.A. (Geography)
- 1997 Adrianne Nassel, M.A. (Geography)
- 1997 Barry Wood, M.A. (Geography)
- 1997 Huda Alkaff, M.A. (Conservation Ecology)
- 1996 Elizabeth Kramer, Ph.D. (Ecology)
- 1995 Vincent Burke, Ph.D. (Zoology)
- 1995 Marion Dobbs, M.A. (Conservation Ecology)
- 1995 Aissa Felfmann, M.A. (Conservation Ecology)
- 1994 Lori Kleifgen, M.A. (Geography)

UNIVERSITY COMMITTEE EXPERIENCE (since 2005 Associate Professor position):

Fall 2019 - Summer 2020

- Member, Head's Advisory Committee, Department of Geography, UGA
- Chair, Curriculum Committee, Department of Geography, UGA
- Lead Science Project Advisor, NASA DEVELOP National Program, UGA
- Member, Science Advisory Committee, Center for Research and Education at Wormsloe, UGA

- Faculty Advisor, UGA Student Chapter of American Society for Photogrammetry and Remote Sensing
- Affiliate Faculty, UGA Marine Institute.
- Affiliate Faculty, Latin American and Caribbean Studies Institute (LACSI), UGA
- Affiliated Faculty, Center for Integrative Conservation Research (CICR), UGA

Fall 2018 - Summer 2019

- Chair, Head's Advisory Committee, Department of Geography, UGA
- Chair, Curriculum Committee, Department of Geography, UGA
- Lead Science Project Advisor, NASA DEVELOP National Program, UGA
- Member, Science Advisory Committee, Center for Research and Education at Wormsloe, UGA
- Faculty Advisor, UGA Student Chapter of American Society for Photogrammetry and Remote Sensing
- Affiliate Faculty, UGA Marine Institute.
- Affiliate Faculty, Latin American and Caribbean Studies Institute (LACSI), UGA
- Affiliated Faculty, Center for Integrative Conservation Research (CICR), UGA

Fall 2017 - Summer 2018

- Chair, Head's Advisory Committee, Department of Geography, UGA
- Chair, Curriculum Committee, Department of Geography, UGA
- Lead Science Project Advisor, NASA DEVELOP National Program, UGA
- Faculty Advisor, UGA Student Chapter of American Society for Photogrammetry and Remote Sensing
- Unit Nominee for Academic Program Review Team, Department of Anthropology, UGA.
- Affiliate Faculty, UGA Marine Institute.
- Affiliate Faculty, Latin American and Caribbean Studies Institute (LACSI), UGA
- Affiliated Faculty, Center for Integrative Conservation Research (CICR), UGA

Fall 2016 – Summer 2017

- Member, Head's Advisory Committee, Department of Geography, UGA
- Chair, Curriculum Committee, Department of Geography, UGA
- Lead Science Project Advisor, NASA DEVELOP National Program, UGA
- Faculty Advisor, UGA Student Chapter of American Society for Photogrammetry and Remote Sensing
- Affiliate Faculty, UGA Marine Institute.
- Affiliate Faculty, Latin American and Caribbean Studies Institute (LACSI), UGA
- Affiliated Faculty, Center for Integrative Conservation Research (CICR), UGA

Fall 2015 - Summer 2016

- Member of the University Council, UGA
- Chair, Head's Advisory Committee, Department of Geography, UGA
- Member of the Curriculum Committee, Department of Geography, UGA
- Lead Science Project Advisor, NASA DEVELOP National Program, UGA
- Faculty Advisor, UGA Student Chapter of American Society for Photogrammetry and Remote Sensing
- Affiliate, Latin American and Caribbean Studies Institute (LACSI), UGA
- Affiliated Faculty, Center for Integrative Conservation Research (CICR), UGA

Fall 2014 - Summer 2015

- Member of the University Council, UGA
- University Review Committee (Social and Behavioral Sciences)
- Curriculum Committee, Department of Geography, UGA

- Ad Hoc Committee on Strategic Planning, Department of Geography, UGA
- Post-tenure Faculty Review Committee, Department of Geography, UGA
- Science Project Advisor, NASA DEVELOP, National Program, UGA
- Faculty Advisor, UGA Student Chapter of American Society for Photogrammetry and Remote Sensing
- Affiliate, Latin American and Caribbean Studies Institute (LACSI), UGA
- Affiliated Faculty, Center for Integrative Conservation Research (CICR), UGA

Fall 2013 - Summer 2014

- Member of the University Council, UGA
- University Review Committee (Social and Behavioral Sciences)
- Advisory Committee, Department of Geography, UGA
- Curriculum Committee, Department of Geography, UGA
- Post-tenure Faculty Review Committee, Department of Geography, UGA
- Chair, Deepak Mishra's Third Year Review Committee, Department of Geography, UGA
- Search Committee for Structural Geology Tenure-track Assistant Professor position, Department of Geology, UGA
- Science Project Advisor, NASA DEVELOP National Program, UGA
- Faculty Advisor, UGA Student Chapter of American Society for Photogrammetry and Remote Sensing
- Faculty Advisor, UGA Organized ICON Network and Cooperative (OINC) Organization
- Affiliate, Latin American and Caribbean Studies Institute (LACSI), UGA
- Affiliated Faculty, Center for Integrative Conservation Research (CICR), UGA
- Science Advisory Council for Wormsloe Institute for Environmental History (WIEH)

Fall 2012 - Summer 2013

- Member of the University Council, UGA
- University Review Committee (Social and Behavioral Sciences)
- Advisory Committee, Department of Geography, UGA
- Curriculum Committee, Department of Geography, UGA
- Post-tenure Faculty Review Committee
- Science Project Advisor, NASA DEVELOP National Program,
- Faculty Advisor, UGA Student Chapter of American Society for Photogrammetry and Remote Sensing
- Affiliated Faculty, Center for Integrative Conservation Research (CICR), UGA
- Science Advisory Council for Wormsloe Institute for Environmental History (WIEH)

Fall 2011 - Summer 2012

- Elected, Member of the University Council, UGA
- President, Franklin College of Arts and Sciences Faculty Senate, UGA
- Franklin College of Arts and Sciences Faculty Senate, Geography Department Representative, UGA
- Advisory Committee, Department of Geography, UGA
- Chair, Search Committee for Remote Sensing Tenure-track Assistant Professor position, Department of Geography, UGA Deepak Mishra was hired.
- Search Committee Ecosystem Tenure-track Assistant/Associate Professor position, Odum School of Ecology, UGA
- Graduate Studies Committee, Department of Geography, UGA
- 5-Year Strategic Plan Committee, Department of Geography, UGA
- Undergraduate Areas of Emphasis Committee, Dept. of Geography, UGA
- Franklin College of Arts and Sciences Diversity Task Force, UGA

- Faculty Advisor, UGA Student Chapter of American Society for Photogrammetry and Remote Sensing
- Science Advisory Council for Wormsloe Institute for Environmental History (WIEH) Fall 2010 Summer 2011
 - President Elect, Franklin College of Arts and Sciences Faculty Senate
 - Franklin College of Arts and Sciences Faculty Senate, Geography Department Representative
 - Franklin College of Arts and Sciences Diversity Task Force
 - Advisory Committee, Department of Geography, UGA
 - Search Committee for Energy and Sustainability Tenure-track Assistant Professor position, Department of Geography
 - Search Committee for Advanced Visualization Tenure-track Assistant Professor position, College of Environment and Design
 - Faculty Advisor, UGA Student Chapter of American Society for Photogrammetry and Remote Sensing
- Science Advisory Council for Wormsloe Institute for Environmental History (WIEH) Fall 2009 Summer 2010
 - Franklin College of Arts and Sciences Faculty Senate, Geography Department Representative
 - Franklin College of Arts and Sciences Faculty Senate, Executive Committee
 - Advisory Committee, Department of Geography, UGA
 - UGA Diversity Task Force, Franklin College of Arts and Sciences and STEM Diversity Sub-Committee
 - Faculty Advisor, UGA Student Chapter of American Society for Photogrammetry and Remote Sensing
- Science Advisory Council for Wormsloe Institute for Environmental History (WIEH) Fall 2008 Summer 2009
 - Third Year Review Committee, Assistant Professor, Mu Lan
 - Advisory Committee, Department of Geography, UGA
 - UGA Ecology of Infectious Disease (EID) Initiative Advisory Board
 - UGA Diversity Task Force, Franklin College of Arts and Sciences and STEM Diversity Sub-Committee
 - Faculty Advisor, UGA Student Chapter of American Society for Photogrammetry and Remote Sensing
- Science Advisory Council for Wormsloe Institute for Environmental History (WIEH) Fall 2007 Summer 2008.
 - UGA Ecology of Infectious Disease (EID) Initiative Advisory Board
 - UGA Research Scientist Policies & Promotion Working Group, Office of the Vice President for Research
 - UGA Diversity Task Force, Franklin College of Arts and Sciences and STEM Diversity Sub-Committee
 - Faculty Advisor, UGA Student Chapter of American Society for Photogrammetry and Remote Sensing

Spring 2007

- Advisory Committee, Department of Geography, UGA
- Search Committee for GIScience Tenure-track Assistant Professor position, Department of Geography, UGA
- UGA Ecology of Infectious Disease (EID) Initiative Advisory Board

- UGA Research Professional Promotions Committee, Office of the Vice President for Research
- Faculty Advisor, UGA Student Chapter of American Society for Photogrammetry and Remote Sensing

Fall 2005

- UGA Ecology of Infectious Disease (EID) Initiative Advisory Board
- Graduate Studies Committee, Department of Geography, UGA

PROFESSIONAL ORGANIZATIONS:

American Society for Photogrammetry and Remote Sensing (ASPRS) (1984-present)

American Association of Geographers (2003-present)

Southeast Division of the American Association of Geographers (2016-present)

International Association of Landscape Ecology (2017-present)

Cartography and Geographic Information Systems (CaGIS) (2008-2015, 2018-present)

Canadian Institute of Geomatics (2008 – 2009)

Florida Exotic Pest Plant Council (1996-1999)

Georgia Exotic Pest Plant Council (1999-2003)

Georgia Lake Management Society (1993-1994)

International Association of Landscape Ecology (1986-1990, 2005 – 2015, 2018)

International Primatological Society (2010 to present)

International Society for Photogrammetry and Remote Sensing (1988-present)

North American Lake Management Society (1993-1994)

Society of Wetlands Scientists (1996-2005)

Society of Sigma Xi (1988-1994, 2002-2003, 2005)

South Carolina Aquatic Plant Management Society (1986-1993)

HONORS:

NASA Silver Achievement Medal, Awarded by Maj. Jim Bridenstein, Director, National Aeronautics and Space Administration, Langley Research Center, Awarded "For excellence in developing future scientific leaders in the use of NASA's Earth Science data to enhance decision making for societal benefit." (2018)

Awarded First Place, 2017 ESRI Award for Best Paper in GIS, American Society for Photogrammetry and Remote Sensing (ASPRS). Williams, M., C. Stegall, M. Madden and J.M. Shepherd, 2017. Mapping the spatio-temporal evolution of irrigation in the Coastal Plain of Georgia, USA, *Photogrammetric Engineering and Remote Sensing*, 83(1): 57-67. DOI: 10.14358/PERS.83.1.57

Special Achievements in Geographic Information Science (SIG) Award received by the Center for Geospatial Research (CGR) and the Wormsloe Institute for Environmental History (WIEH), ESRI, Inc. (2015)

American Society for Photogrammetry and Remote Sensing (ASPRS), Conference Management Award (2014)

Awarded Second Place, 2012 ERDAS Award for Best Scientific Paper in Remote Sensing, American Society for Photogrammetry and Remote Sensing (ASPRS). Kim, M., J.B Holt and M. Madden, 2011. Comparison of global- and local-scale pansharpening for the rapid assessment of humanitarian emergencies, *Photogrammetric Engineering and Remote Sensing*, 77(1): 51-63, (2012)

American Society for Photogrammetry and Remote Sensing (ASPRS), SAIC Estes Memorial Teaching Award (2011)

- American Society for Photogrammetry and Remote Sensing (ASPRS), Outstanding Service Award (2010)
- American Society for Photogrammetry and Remote Sensing (ASPRS), Fellow Award (2010)
- American Society for Photogrammetry and Remote Sensing (ASPRS), Presidential Citation (2005, 2009, 2011)
- Special Achievements in Geographic Information Science (SIG) Award received by the Center for Remote Sensing and Mapping Science (CRMS), ESRI, Inc. (2009).
- American Society for Photogrammetry and Remote Sensing (ASPRS), Col. Claude H. Birdseye President's Citation (2008)
- International Society for Photogrammetry and Remote Sensing (ISPRS) Willem Schermerhorn Award sponsored by The Netherlands Society for Earth Observation and Geo-Informatics (2004)
- Invited Visiting Scholar, James Madison University, Harrisonburg, Virginia, (Fall 2002)
- Distinguished Visiting Alumna (DVA), Plattsburgh State University of New York, (Fall 1999)
- Best Session Paper with R. Welch and R. Doren, entitled "Large-Scale Vegetation Maps and Digital Databases for the Florida Everglades", at the Fourth ERIM Thematic Conference on Remote Sensing for Marine and Coastal Environments, Orlando, Florida April 17-19, 1997.
- Best Plenary Paper with R. Welch, J. Alberts, A. Chalmers, B Kjerfve and M. Cablk, entitled "A Multi-Tiered Database for Comparative Coastal Marsh Studies", at the Second ERIM Thematic Conference on Remote Sensing for Marine and Coastal Environments, New Orleans, Louisiana, Jan. 31-Feb. 2, 1994.

PROFESSIONAL ACTIVITIES:

- Appointed, Founding member of the External Advisory Board, Center for Geospatial Analytics, North Carolina State University (2017-2020)
- Appointed, Member of Esri Imagery Education Commuity (2017-present)
- Co-Chair, Education and Professional Development Committee, American Society for Photogrammetry and Remote Sensing, With Stan Hovey (2017-present)
- Chair, Commission IV Working Group 6- Spatial Data Infrastructure: Internet of Things and Spatial Decision Support, International Society for Photogrammetry and Remote Sensing, (2016-2020)
- Lead Science Advisor, National Aeronautics and Space Administration (NASA) DEVELOP National Program (2014-present)
- Appointed, Chief Finance Officer and Executive Committee, International Society for Photogrammetry and Remote Sensing (ISPRS) Foundation (2011-2020)
- Appointed, National Advisory Council, NSF GeoTech Center (2013-2016)
- Appointed, Advisory Board, Integrated Geospatial Education and Technology Training Remote Sensing (iGETT-RS), NSF-funded National Council for Geographic Education (2013-2015)
- Elected, Second Vice President, International Society for Photogrammetry and Remote Sensing (ISPRS) Council Member, (2012-2016)
- Appointed Associate Member of the Graduate Faculty, University of North Carolina at Charlotte, July 1, 2012 -June 30, 2014
- Appointed, Advisory Board of U.S. Geospatial-Intelligence Foundation (USGIF) (2011-2014)
- Elected, Technical Commission President, International Society for Photogrammetry and Remote Sensing (ISPRS) Commission IV, Geodatabases and Digital Mapping (2008-2012)
- Elected, Past-President, American Society for Photogrammetry and Remote Sensing (2008-2009)
- Elected, President, American Society for Photogrammetry and Remote Sensing (2007-2008)
- Elected, President-Elect, American Society for Photogrammetry and Remote Sensing (2006-007)
- Elected, Vice President, American Society for Photogrammetry and Remote Sensing (2005-2006)

Appointed, Advisory Committee, Center for Integrative Conservation Research, Department of Anthropology, University of Georgia (2008- present)

Appointed, National Visiting Committee, NSF GeoTech Center (2008-2012)

Appointed, Science Advisory Council for Wormsloe Institute for Environmental History (2008-present)

Appointed, The Nature Conservancy (TNC) Remote Sensing Advisory Group (2008-2010)

Appointed, National Oceanic and Atmospheric Administration (NOAA) Advisory Committee on Commercial Remote Sensing (ACCRES) (2007-2009)

Appointed, ISPRS Strategic Planning Committee (2008-2010)

Appointed, ISPRS Fellows Selection Committee (2008-2012)

Member, Feral Swine and Pseudorabies in Great Smoky Mountains National Park Working Group of the National Institute for Mathematical and Biological Synthesis (NIMBioS), University of Tennessee (2009-present)

Appointed, Member of Advisory Council for Eglin Air Force Base Working Group for Ecosystem Management (EWGEM) (2007-2009)

Appointed, Member of Advisory Council for NSF-funded exploratory grant to plan for a National Geospatial Technology Resource Center (2006-2007)

Appointed, Evaluator for NSF-funded "Development of a GIS Certification Program and Preparing for GIS Accreditation at North Carolina Central University", Geography and Earth Sciences Department, North Carolina Central University (2006-2008)

ASPRS Student Chapter Faculty Advisor (2006-present)

ASPRS Correspondent for ISPRS Commission IV (2002–2012)

ASPRS lead delegate for the University Consortium for Geographic Information Science (UCGIS) (2002–2014)

The University of Georgia delegate for the University Consortium for Geographic Information Science (UCGIS) (2002–2014)

Co-Chair, ISPRS Commission IV Working Group 4- Landscape Modeling and Visualization, International Society for Photogrammetry and Remote Sensing, (2004-2008)

Elected Geographic Information Systems (GIS) Division Director, American Society for Photogrammetry and Remote Sensing (2003–2005)

Member of panel to evaluate techniques at the Detecting Invasive Exotic Plants Workshop and Conference, Miami, Florida, February 12-14, 2003

Elected Geographic Information Systems (GIS) Assistant Division Director, American Society for Photogrammetry and Remote Sensing (2001–2003)

Member of U.V. Helava Award Jury to select best paper published annually in the *ISPRS Journal of Photogrammetry and Remote Sensing*, (1996-2000 and 2000-2004)

Chair, Commission IV Working Group 6- Landscape Modeling and Visualization, International Society for Photogrammetry and Remote Sensing, (2000-2004)

Member of the Technical Proposal Evaluation Committee (TPEC), South Florida Natural Resources Center, Everglades National Park, National Park Service, Homestead, Florida (1995-1997)

Secretary, Commission IV Working Group 2- Digital Terrain Models, Orthoimages and 3D GIS, International Society for Photogrammetry and Remote Sensing, (1996-2000)

Secretary, Commission IV, Mapping and Geographic Information Systems, International Society for Photogrammetry and Remote Sensing, (1992-1996)

Member of the Ecological Evaluation using Remote Sensing (EERS) Advisory Board, West Virginia University, Morgantown, West Virginia (1996)

Panel Member for the National Oceanic and Atmospheric Administration (NOAA) Coastal Ocean Program Competition, Washington, D.C., October 24, 1995

Panel Member for the National Science Foundation Arctic System Science (ARCSS) Program's Land/Atmosphere/Ice Interactions Competition, Washington, D.C., July 9-10, 1992

Secretary, Commission IV Working Group 5 - Geographic Information Systems, International Society for Photogrammetry and Remote Sensing, (1988-1992)