

CURRICULUM VITAE

John C. Rodgers III

Address:

Department of Geosciences
Mississippi State University
355 Lee Blvd., 108 Hilbun
Fax: (662) 325-9423.
E-mail address: jcr100@msstate.edu

Education:

- Ph.D. August 1999, Geography, University of Georgia. Dissertation: Effects of human disturbance on alien plant distributions and primary dune vegetation on the Georgia Sea Islands. Supervisor: Dr. Kathleen C. Parker.
- M.S. May 1994, Botany, University of Tennessee, Knoxville. Thesis: Modern Pollen Rain in Costa Rica. Supervisor: Dr. Sally P. Horn (Geography) and Edward Clebsch (Botany)
- B.S. May 1991, Biology (Concentration in Ecology) and Botany with High Honors University of Tennessee, Knoxville.

University Appointments:

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| 2018 – present | Head, Department of Geosciences, Mississippi State University |
| 2017 - 2018 | Interim Head, Department of Geosciences, Mississippi State University |
| 2015 – present | Full Professor, Department of Geosciences, Mississippi State University |
| 2007 – 2015 | Associate Professor, Department of Geosciences, Mississippi State University |
| 2001 - 2006 | Assistant Professor, Department of Geosciences, Mississippi State University |
| 1999- 2001 | Assistant Professor, University of New Orleans, Department of Geography |

Peer-Review Publications:

- 2019 Sankar, M. S., Dash, P., Lu, Y. H., Paul, V., Mercer, A. E., Arslan, Z., Varco, J. J., Rodgers, J. C. III. Dissolved organic matter and trace element variability in a bay fed by blackwater rivers following precipitation. *Estuary, Coastal, and Shelf Science* 231: 1-16. Doi /10.1016/j.ecss.2019.106452
- 2019 Fuhrmann, C. M., Wood, K. M, and Rodgers, J. C. Assessment of storm surge and structural damage on San Salvador Island, Bahamas, associated with Hurricane Joaquin (2015). *Natural Hazards*. DOI: <https://doi.org/10.1007/s11069-019-03782-2>
- 2018 Rush, S., Rodgers, J.C, Soehren, E. and Trent, J. SPATIAL AND TEMPORAL CHANGES IN EMERGENT MARSH AND ASSOCIATED MARSH BIRDS OF THE LOWER MOBILE-TENSAW RIVER DELTA IN ALABAMA, USA". *Wetlands* DOI: 10.1007/s13157-018-1082-x <https://rdcu.be/77rb>.
- 2018 Bise R. D. , Rodgers J.C. III, Maguigan, M. A., Beaulieu, B., Keith, W., Maguigan, C. L., Meng, Q. Sidewalks as Measures of Infrastructure Inequities. *Southeastern Geographer* 58: 39 - 57.
- 2017 Formby, J. P., **Rodgers, J. C.**, Koch, F. H., Krishnan, M., Duerr, D., and Riggins, J. Cold tolerance strategy and invasive potential of the redbay ambrosia beetle (*Xyleborus glabratus*) in the eastern United States. *Biological Invasions* - online DOI 10.1007/s10530-017-1606-y first, but will be published In print in 2018.
- 2017 Crosby, M.K., Matney, T. G., Schultz, E. B., Evans, D. L., Grebner, D. L., Londo, H. A., **Rodgers, J. C.**, and Collins, C., Consequences of Landsat Image Strata Classification Errors on Bias and Variance of Inventory Estimates: A Forest Inventory Case Study. *Journal of Selected Topics in Applied Earth Observations and Remote Sensing* 10: 243-251.
- 2016 Maguigan, M. **Rodgers, J.**, Dash, P., and Meng, Q. Assessing net primary production in montane wetlands from proximal, airborne, and satellite remote sensing platforms. *Advances in Remote Sensing* 5: 118-130.
- 2016 Yang, Y., Meng, Q., McCarn, C., Cooke, W., **Rodgers, J.** Kunbo, Sh. Effects of path dependencies and lock-ins on urban spatial restructuring in China: A historical perspective on government's role in Lanzhou since 1978. *Cities* 56: 24 – 34.

- 2016 Bortoleto, L. A., Gigueira, C. J. M., Dunning Jr., J. B., **Rodgers, J.**, da Silva, A. M. Suitability index for restoration in landscapes: An alternative proposal for restoration projects. *Ecological Indicators* 60: 724-735
- 2014 Sorbal, A. C., Peixoto, A. S., Nascimento, V. F., and **Rodgers, J.** Geospatial analysis of natural and anthropogenic influences on soil erosion and soil characteristics in Southeastern Brazil. *Regional Environmental Change*: printed on-line. DOI: 10.1007/s10113-014-0667-z
- 2014 Ho, C. D., Mylroie, J., and **Rodgers, J.** Fuzzy-based Spatial Modeling Approach to Predict Island Karst Distribution: A Conceptual Model for publication in Environmental Earth Sciences. *Environmental Earth Science* 71: 1369-1377.
- 2013 Clary, R., Sumrall, J., **Rodgers, J. C. III** . The Effects of Geographic Affiliation on Students' Perceptions, Awareness, and Responses to the 2010 Deepwater Horizon Oil Spill. *Journal of Geoscience Education* 61: 453-460.
- 2013 **Rodgers, J. C. III**. Size-class distribution of Australian pine [*Casuarina equisetifolia* L. ex J.R. & G. Forst.] beach population on San Salvador Island, The Bahamas. *Caribbean Journal of Science* 43(1): 37-49.
- 2013 Sherman-Morris, K., Brown, M.E., Dyer, J.L., McNeal, K.S., **Rodgers, J.C.** Teachers' Geoscience Career Knowledge and Implications for Enhancing Diversity in the Geosciences. *Journal of Geoscience Education* 61: 326-333.
- 2013 Meng, Q., Cooke, W. H. and **Rodgers, J.** 2013. Derivation of 16-day time-series NDVI data for environmental studies using a data assimilation approach. *GIScience and Remote Sensing* (published on-line; <http://dx.doi.org/10.1080/15481603.2013.823733>)
- 2013 Khanal, S. Ambinakudige, S., and **Rodgers, J.** 2013. A GIS analysis of the spatial relationship between evapotranspiration and pan evaporation in the United States. *Water International* 38: 353-360.
- 2013 Luiz Augusto Manfré, Alexandre Marco da Silva, Rodrigo Custódio Urban, **John Rodgers**. ENVIRONMENTAL FRAGILITY EVALUATION AND GUIDELINES FOR ENVIRONMENTAL ZONING: a study case on Ibiuna-SP (Southeastern Brazilian region). *Environmental Earth Science* 69: 947-957.
- 2012 Sherman-Morris, K., **Rodgers, J.C.**, McNeal, K.S., Brown, M.E., Dyer, J.L. Professional Development Strategies to Enhance Diversity in the Geosciences. *The Science Educator* 22: 31-38

- 2012 Buehler, C. and **Rodgers, J. C.** Soil property differences between invaded casuarinas (*Casuarina equisetifolia* L.) sites and non-casuarinas sites in The Bahamas. *Physical Geography* 33: 574-588.
- 2012 **Rodgers, J. C. III** and S. Ambinakudige. Distribution of the invasive casuarinas on beaches of San Salvador Island, The Bahamas. *Natural Areas Journal* 32: 386-390.
- 2012 **Rodgers, J.**, A. Owen-Nagel, and S. Ambinakudige. Teaching geospatial courses online: development of a pedagogical model. *Review of International Geographical Education Online* 2: 7-24 (ISSN: 2146-0353)
- 2011 Cooke, W.H. III, **Rodgers, J.C.**, and Grala, K., Geospatial Technique for Rapid Delineation of Potential Hurricane Damage. In: Editorial Collegium (eds) *Hurricane Research*, 978-953-7619-X-X, Intech Publishing, Austria.
- 2009 **Rodgers, J. C. III**, Murrah, A. W., and Cooke, W. C. III. The Impact of Hurricane Katrina on the Coastal Vegetation of the Weeks Bay Reserve, Alabama from NDVI Data. *Estuaries and Coasts* 32: 496-507.
- 2008 **Rodgers, J. C. III** and Gamble, D. G. The Impact of Hurricane Frances (2004) on the Invasive Australian Pine (*Casuarina equisetifolia* L.) San Salvador Island, The Bahamas. *Journal of the Torrey Botanical Society* 135: 367-376.
- 2008 Peacock, E., **Rodgers, J.C. III**, Bruce, K. and Gray, J. Assessing the Pre-Modern Tree Cover of the Ackerman Unit, Tombigbee National Forest, North Central Hills, MS, Using GLO Survey Notes and Archaeological Data. *Southeastern Naturalist* 7: 245-266.
- 2007 Horn, S. P. and **Rodgers, J. C. III**. Pollen in the Río Puerto Viejo, Costa Rica. *Brenesia*: 67: 1-7.
- 2007 Senkbeil J.C., **Rodgers J.C. III**, Sheridan S.C. The Sensitivity of Tree Growth to Air Mass Variability and the Pacific Decadal Oscillation in Coastal Alabama. *International Journal of Biometeorology* 51: 483 - 491.
- 2006 **Rodgers, J. C. III**, Gamble, D. G., McCay, D. H., and Phipps, S. Tropical cyclone signals within tree ring chronologies from Weeks Bay National Estuary and Research Reserve, Alabama. *Journal of Coastal Research* 22: 1320-1329.
- 2005 **Rodgers, J. C. III**. The Distribution of Casuarinas on San Salvador Island. *Southeastern Geographer* 45: 222-238.
- 2003 **Rodgers, J. C. III** and Parker, K. C. Distribution of alien plant species in relation to human disturbance and environmental stress on the Georgia Sea Islands. *Diversity and Distributions* 9: 385-398.

- 2002 **Rodgers, J. C. III.** Effects of human disturbance on the dune vegetation of the Georgia Sea Islands, USA. *Physical Geography* 23: 79 – 94.
- 1998 Horn, Sally P., **Rodgers, J.C. III**, Orvis, K.H., and Northrop, L.A. Recent vegetation and land use history from soil pollen analysis: testing the potential in the lowland humid tropics. *Palyndology* 22: 167-180.
- 1997 Horn, Sally P., and **Rodgers, J.C. III**, 1996-1997. The northern limit of *Alnus* (Fagales) in Costa Rica: modern pollen evidence of a possible range extension. *Revista Biologia Tropical* 45(1): 609-611.
- 1996 **Rodgers, J.C. III**, and Horn, Sally P. 1996. Modern Pollen Spectra from Costa Rica. *Paleogeography, Paleoclimatology, Paleoecology* 124: 53 - 71.

Manuscripts Under Review

Awards and Grants:

Mississippi State University (Funded)

- 2017 Study Abroad for Coastal Science and Climate Sciences. Partnership for America, Marleen M. Johnson Foundation. \$24,970. Rodgers PI and Fuhrmann Co-PI.
- 2014 Cross-Collaboration: MSU Internal Grant through the Office of Research and Economic Development , submitted with Dr. Scott Rush PI (Wildlife), \$1500
- 2013 Spatial and Temporal Changes in Sea Level and Marsh Birds in the Mobile/Tensaw Delta. Rush, S. and Rodgers, J PI's. Alabama Department of Conservation and Natural Resources. \$21,000. June 2015 – Dec 2016
- 2013 Cross-Collaboration: MSU Internal Grant through the Office of Research and Economic Development , submitted with Dr. Scott Rush (Wildlife), \$1500.
- 2012 A Modis based decision support tool/model for Gulf coast salt marsh conservation and restoration. UNO Sub Grant, original grant to NASA ROSES. \$129,000. Mishra and Rodgers.
- 2012 Schillig Special Teaching Projects (Schillig Grant), Mississippi State University. Submitted with Dr. Ambinakudige (Geosciences). This award provided funds to purchase GPS units for use in teaching modern geographic tools to undergraduates; \$3000
- 2010 NSF GEO: Fueling the Geosciences Educational Pipeline: The development of a K-12 Network to Support Minority Participation, (NSF GEO-0939734) Kathleen

Sherman-Morris, PI. Co-PIs: John Rodgers, Michael Brown, Karen McNeal and Jamie Dyer, \$39,828, October 1, 2009-September 30, 2011.

- 2009 Gerace Research Centre, College of the Bahamas, Student Grant. Charlotte Buehler (PI) and John Rodgers. Soil modification and allelopathy from the invasive Australian pine (*Casuarina equisetifolia* L.): an investigation into how Australian pines modify their environment. \$1000.
- 2006 Weeks Bay Reserve Graduate Fellowship. John Rodgers (PI) and Adam Murrah (Co-PI). The use of geospatial technologies and ground based field studies to quantify the effect of Hurricane Katrina on the vegetation of the Weeks Bay Reserve. \$20.000
- 2004 NASA, EIGS Fellowship Program, continuation of previous years grant. John Rodgers (PI) and Brady Smith (Co-PI), A Remote Sensing and GIS Analysis of Drought Effects on the Estuaries of Coastal Alabama; \$22,000, 301868.
- 2003 NASA, Mississippi Space Commerce Initiative Fellowship Program. John Rodgers (PI) and Brady Smith (Co-PI), A Remote Sensing and GIS Analysis of Drought Effects on the Estuaries of Coastal Alabama; \$22,000, Grant no 03-06-093.
- 2002 Schillig Special Teaching Projects (Schillig Grant), Mississippi State University. This award provided funds to purchase GPS units for use in teaching modern geographic tools to undergraduates; \$2490

University of New Orleans

- 2000 Fellowship in Teaching and Technology, University of New Orleans. This award provided a laptop computer for web-based learning and other multimedia instructional technologies within the classroom; \$1500

University of Georgia

- 1997-1999 University of Georgia Graduate School Award. This fellowship waives tuition costs and pays a salary throughout the academic year.
- 1997 National Science Foundation Doctoral Dissertation Improvement Grant (Geography and Regional Science). "The Occurrence of Herbaceous Alien Plant Species with Respect to Environmental Stress and Anthropogenic Influences on the Georgia Sea Islands"; \$7776
- 1996 Outstanding Teaching Assistant Award, University of Georgia.

Invited Presentations

- 2011 Spatial Analysis of Australian pine on San Salvador Island, the Bahamas.

Presentation given to the Department of Geosciences, Florida Atlantic University, Boca Raton, FL. March 2011.

- 2010 Geographic Analysis of Australian pine in the Bahamas. Presentation given to the Department of Geography, University of Alabama, Tuscaloosa. October 2010.
- 2008 On-line learning and engaging the distance learner. Invited presentation for the Mississippi State University Center for Teaching and Learning Brownbag Series, February 13, 2008.

Academic Journal Reviewer: *Invasive Plant Science and Management, Journal of Coastal Research, Ecological Indicators, Journal of Environmental Management, Environmental Monitoring and Assessment, landscape Ecology, and Southeastern Geologist.*

Papers and Academic Posters Presented at Conferences (presenter underlined):

- 2019 Flickinger, D., J.C. Rodgers, P. Dash, and A. Skarke (2019), Analysis of suspended particulate matter concentrations in Weeks Bay, Alabama using Landsat imagery. Presented at the 2019 American Association of Geographers Annual Meeting, Washington, DC, 3-7 Apr.
- 2019 Radencic-Lalk, S., Sherman-Morris, K., Nagel, A.O., Rodgers, J.C., *Individual Awareness of Regional Geoscience Resources and the Potential Influence of Community Size*, American Association of Geographers Annual Conference. Washington, DC. April 3-7.
- 2017 Rodgers, J. C. Impact of Hurricane Joaquin on Invasive Australian Pine Populations (*Casuarina equisetifolia*) in the Bahamas. Paper presented at the Annual Meeting of the Southeastern Division of the Association of American Geographers, Starkville, MS, November 20. 2017.
- 2016 Rodgers, J.C., Rush, S., and Soehren, E. A Geospatial Assessment of Wetland Habitat Change in the Mobile Tensaw River Delta (AL) from 2006 to 2013. Poster presented at the Annual Meeting of the Southeastern Division of the Association of American Geographers, Columbia, SC, November 21. 2017.
- 2014 Michael A. Maguigan, John C. Rodgers III, and Jamie L. Dyer. Controls on primary productivity in southern Appalachian wetlands (Poster). Joint Aquatic Sciences Meeting, May 2014, Portland, OR.
- 2014 Rodgers, J.C. and Bise, D. A Geospatial Analysis of Sidewalk Infrastructure in Relation to Social Sectors of a Small Southern Community. Poster presented at Annual Meeting of the Association of American Geographers, Tampa, FL, April 10, 2014

- 2012 Rodgers, J. C. III. Resiliency of the invasive Australian pine to disturbance: a case study on San Salvador Island, The Bahamas. Paper presented at Annual Meeting of the Association of American Geographers, New York, NY, February 27, 2012
- 2012 Rodgers, J.C. III. Invasive Plant Management, Spatial Analysis of a Control Strategy in the Bahamas. Poster presented at the Southeastern Division of the Association of American Geographers, Asheville, NC November 19, 2012.
- 2012 Summral, J., Clary, R., and Rodgers, J. A research investigation into the effects of students' sense of place on interest, knowledge, and behavioral changes with respect to the 2010 Deepwater Horizon Oil Spill. Geological Society of America Abstracts with Programs, Vol. 44, No. 7, p. 103. Presented at November 2012 meeting in Charlotte, NC.
- 2011 Rodgers, J. C. III. Biogeographical Analyses of a Problematic Invasive Specie; Australian Pine (*Casuarina equisetifolia* L.) Distribution Patterns on Beaches of San Salvador Island, The Bahamas. Paper presented at the Annual Meeting of the Association of American Geographers, Seattle, WA April 15, 2011.
- 2010 Rodgers, J.C. III. Spatial Analyses of a Noxious Invasive Specie in The Bahamas: A Three Year Study of Casuarinas Populations on San Salvador Island. Poster presented at the Southeastern Division of the Association of American Geographers, Birmingham, AL November 22, 2010.
- 2010 Buehler, C. P. and Rodgers, J. C. III. An Investigation of *Casuarina Equisetifolia* L. (Australian Pine) Modification of the Environment Through Potential Allelopathy on San Salvador Island, The Bahamas. Poster presented at the Southeastern Division of the Association of American Geographers, Birmingham, AL November 22, 2010.
- 2009 Rodgers, J.C. III and Theel, R. Mississippi and Alabama Barrier Island Migration 1990 to 2005 as measured by Landsat Satellite Imagery. Research poster presented at the Annual Meeting of the Southeastern Division of the Association of American Geographers, Knoxville, TN November 22, 2009.
- 2009 Rodgers, J. C. III, Murrah, A. and Cooke, W. C. III. Coastal Vegetation Change In Weeks Bay, Alabama Due to Hurricane Katrina and Other Environmental Variables. Presentation given at the Annual Meeting of the Association of American Geographers, Las Vegas, NV, March 26, 2009.
- 2008 Pounders, A. and Rodgers, J. C. III. The Mexican Migrant Population of Northeast Mississippi. Poster presented at the Annual Meeting of the Southeastern Division of the Association of American Geographers, Greensboro, NC, November, 23, 2009
- 2007 Rodgers, J. C. III. The Effects of Hurricane Katrina on the Weeks Bay Reserve, Alabama Vegetation from Lansdat 5 Satellite Imagery. Paper presented at the Annual

Meeting of the Southeastern Division of the Association of American Geographers,
Charleston, SC, November, 18, 2007

- 2007 Rodgers, J. C. III The invasive Australian pine (*Casuarina equisetifolia*) and native animal species within the Bahamas. Paper presented at the 103rd Annual Meeting of the Association of American Geographers, San Francisco, CA, April 4 2007.
- 2006 Rodgers, J. C. III. Casuarinas, Storms, and Sediment. Poster presented at the 16th Geology of the Bahamas Symposium. June 8, San Salvador Island, The Bahamas.
- 2006 Rodgers, J. C. III. Hurricane affects on populations of Australian Pine (*Casuarina equisetifolia*) on San Salvador Island, The Bahams. Paper presented at the 102th Annual Meeting of the Association of American Geographers, Chicago, IL, March 9, 2006.
- 2005 Rodgers, J.C. III. Australian pines and their possible threat to beach erosion on San Salvador Island, The Bahamas. Paper presented at the 101th Annual Meeting of the Association of American Geographers, Denver, Colorado, April 8, 2005.
- 2004 Horn, Sally P., Arford, M., Cozard, D., Anchkaitis, K., Rodgers III, J. and Kennedy, L. Pollen Evidences of Pre-Columbian Maize Cultivation in Costa Rica. Annual Meeting of the Society of American Archaeology, Montreal , Canada, April 2994.
- 2004 Smith, B.K. and Rodgers, J. C. III. Geospatial technologies to monitor the effects of drought on estuaries in Weeks Bay Reserve, Alabama. Poster presented at the 59th Annual Meeting of the Southeastern Division of the Association of American Geographers, Biloxi, MS, November, 2004
2004. Rodgers, J. C. III. The distribution of casuarinas in relation to human disturbance on San Salvador Island. Paper presented at the 100th Annual Meeting of the Association of American Geographers, Philadelphia, PA. March 18, 2004.
2003. Rodgers, J. C. III and Cooke, W. H. The Geography of Tennis in Mississippi. Poster presented at the 58th Annual Meeting of the Southeastern Division of the Association of American Geographers, Charlotte, NC. November 22, 2003
- 2002 Rodgers, J. C. III. Human disturbance and dune soils of the Georgia Sea Islands. Paper presented at the 57th Annual Meeting of the Southeastern Division of the Association of American Geographers, Richmond, VA. November 23, 2002
- 2002 Rodgers, J. C. III. and Brown, M. E. The spatial distribution of tree damage in Starkville, MS following a severe downburst from a Mesoscale Convective System (Derecho). Paper presented at the 98th Annual Meeting of the Association of American Geographers, Los Angeles, CA. March 23, 2002.
- 2001 Rodgers, J.C. III; McCay, D.; Gamble, D.; and Phipps, S. The Use of Tree-Ring

Chronologies to Determine the Effects of Tropical Cyclones on a Coastal Alabama Bottomland Forest. Paper to be presented at the upcoming 97th Annual Meeting of the Association of American Geographers, New York City, NY.

- 2000 Rodgers, J. C. III and Ivester, A. A Holocene pollen record from a Carolina Bay on the coastal plain of Georgia, U.S.A. Poster presented at the Annual Meeting of the Geological Society of America, Reno, Nevada. November 13, 2000.
- 2000 Rodgers, J.C. III. The effects of anthropogenic disturbance and environmental stress on the distribution of alien plants on the Georgia Sea Islands. Paper presented at the 96th Annual Meeting of the Association of American Geographers, April 8, Pittsburgh, PA.
- 1998 Rodgers, J. C. III. The dune vegetation of the Georgia Sea Islands in relation to anthropogenic disturbance. Paper presented at the 51st Annual Meeting of the Southeastern Division of the Association of American Geographers, November 22, Memphis, TN.
- 1998 Rodgers, J.C. III. The distribution of herbaceous alien plant species in relation to anthropogenic disturbance and environmental stress. Paper presented at the 30th Annual meeting of Applied Geographers, October 22, Louisville, KY.
- 1998 Rodgers, J.C. III. The effects of anthropogenic disturbance on the dune vegetation of the Georgia Sea Islands. Poster presented at the annual meeting of the Association of American Geographers, March 27, Boston, MA.
- 1997 Rodgers, J.C. III. Scrub vegetation in relation to fire and anthropogenic disturbance. Paper presented at the annual meeting of the Southeastern Division of the Association of American Geographers, November 24, Birmingham, AL.
- 1997 Rodgers, J.C. III. Distribution of Alien Plants on Jekyll Island, Georgia: Preliminary Data. Paper presented at the annual meeting of the Association of American Geographers, April 13, Fort Worth, TX.
- 1997 Horn, S.P., Kennedy, L.M., Northrop, L.A., Gray, E., Rodgers, J.C. III. Prehistoric human disturbance of tropical forests in Costa Rica: paleoecological evidence from the Central Atlantic watershed. Paper presented at the Symposium and Annual Meeting of the Association for Tropical Biology, Organization of Tropical Studies. June 15, San Jose, Costa Rica.

Courses Taught Since 2007:

On-Campus (OC) and Distance Education (DL) Courses
Ocean Science, GG 8233 (DL)
Principles of GIS, GR 4303/6303 (OC and DL)
Geography of North America, GR 4203/6203 (OC)
Environmental Geosciences, GG 8233 (OC)

Coastal Environments, GG 4523/6523 (OC)
Natural Hazards GR 4813/6813 (OC), Advanced Natural Hazards (GR 8990)
Climate Change GR 8633 (DL)
GIS Programming GR 4363/6363 (DL)

Other Courses Taught:

World Geography, GR 1123 ; MSU
Seminar in Geosciences/Literature in Geosciences, GG 8561/GG 8452 ; MSU
Statistical Climatology, GR 4633/6633 ; MSU
Research Methods, GR 8990; MSU
Environmental Impact Analysis, GEOG 4158; UNO
Advanced Quantitative Methods, GEOG 4801; UNO
Terrestrial Plant Ecology, GEOG 4833: UNO
Environmental Geography, GEOG 1600; UNO
Physical Geography, GEOG 2151 at UNO and GGY 104 at UGA.
General Botany, BOT 110, UTK

Field Courses, College-level:

Geosciences Study Abroad, Bahamian Field Course, GG 4533 MSU, 2012 - present
Field Methods in Geosciences, GR 8410 Western Washington; MSU, 2014 - present
Field Methods in Geosciences, GR 8400, Bahamas; MSU, 2015 - present
Field Methods in Geosciences, GR 8410 Lake Superior; MSU, 2006 - 2013
Field Methods in Geosciences, GR 8400 Outer Banks; MSU, 2005 - 2012
Field Methods in Geosciences, GR 8400 Mississippi River; MSU, 2003 - 2005

Field Courses, High School-level

1999 – 2001 Duke University’s Talent Identification Program, Costa Rica. This is a three week-long, field-based tropical ecology course for advanced high school students. I was the instructor that was charge of taking students to different types of tropical forests where we conducted field projects and discussed important issues related to rainforest ecology and preservation.

Major Adviser, Graduate Students that have successfully defended and graduated:

2020	Lindsay Mullins	Distribution and habitat use of sharks in the coastal waters of west-central Florida. S
2020	John Cartwright	Assessment of coastal watershed erosion potential using geographic information systems and expert input for decision support, PhD
2018	Madison Dixon	Mapping with modern prosumer small unmanned aircraft systems: Addressing the geospatial accuracy debate, MS
2017	Sara Smith	GIS-based evaluation of landslide susceptibility for Eastern

Tennessee, MS.

2017 Devon Flickinger Analysis of Suspended Particulate Matter Concentrations in Weeks Bay, Alabama Using Landsat Imagery, MS.

2015 Michael Maguigan An examination of net primary proeuction in southern Appalachian wetlands, PhD.

2015 Dora Lambert Hill-fort Sites and Tumuli in the Shkodra Plain Region of Northern Albania – A Geospatial Perspective, MS.

2015 Robert Devon Bise A GIS analysis of sidewalk infrastructure in Starkville, MS. MS.

2011 Mark Carruth Multispectral/multi-temporal aerial detection and Mapping of red imported fire ant colony mounds in two monoculatural grass types, MS/.

2010 Charlotte Buehler Soil modification and potential allelopathy: An investigation into how the invasive casuarinas equisetifolia L. (Australian Pine) Modify their environment, MS.

2009 Leif Mylroie Spatial dispersion of the fungus *Aspergillus flavus* in corn ears: A spatial analysis of ubiquitin mRNA, MS.

2008 Jamie Thomason An assessment of suspended sediment in Weeks Bay Reserve, Baldwin County, Alabama, using geospatial modeling and field sampling methods, MS.

2007 Adam Murrah: The use of geospatial technologies and ground-based field studies to quantify the effect of hurricane Katrina on the vegetation of the Weeks Bay Reserve, MS.

2007 Ryan Theel: A 15 – year evaluation of the Mississippi and Alabama Coastline Barrier Islands, Using Landsat Satellite Imagery, MS.

2007 Anna Pounders An investigation of Mexican Immigration in the Itawamba and Tishomingo Counties, Northeast Mississippi, MS.

2006 Jonathan DelBosco: Jobs-housing balance and individual spatial choices: A case study of Saturn workers in Spring Hill, Tennessee, MS.

2005 David Glenn: The North Atlantic Basin Hurricane Reanalysis Project: A Five Year Reassessment of Early 20th Century Tropical Cyclones, MS.

- 2004 John Storelli: Using GIS and remote sensing to assess changes in aquaculture in the Delta of Mississippi, MS.
- 2002 Jason Senkbile: The sensitivity of tree rings to ENSO and climate variables in coastal Alabama, MS.

Service:

University Service:

- 2016 – present Program Director of the Geospatial and Remote Sensing Minor Program
- 2012 – 2016 Program Director of the Geospatial and Remote Sensing Certificate Program
- 2009 – 2015 Mississippi State University, Robert Holland Faculty Senate Representative from the College of Arts and Sciences
- 2013 Schillig Undergraduate Teaching grant review board
- 2007 Mississippi State University, Holland Faculty Senate Representative from the College of Arts and Sciences (Voted to replace departed faculty member)

College of Arts and Sciences Service:

- 2016 College of Arts & Sciences Dean Search Committee
- 2016 – present College of Arts & Sciences Courses and Curricula Committee
- 2007-present Mississippi State University, General Liberal Arts Committee
- 2008-2010 Mississippi State University, College of Arts and Sciences Tenure and Promotion Committee
- 2007 Mississippi State University, ITAG representative College of Arts and Sciences
- 2004 College of Arts and Sciences Committee to write the College Promotion and Tenure Document
- 2002 – 2004 College of Arts and Sciences Faculty Senate
- 2002 – 2004 College of Arts and Sciences Scholarship Committee

Department Service:

2015 – 2017	Department of Geosciences Action Team Chair - evaluation of department strengths and weaknesses, oversight of department functionality.
2012 – 2017	Undergraduate Coordinator for the Department of Geosciences
2010 – 2017	“Team Leader” for Geospatial and Geography. Coordinate teaching schedules for geography and geospatial courses, assign geospatial TA duties, represent geospatial and geography faculty to the Department Head, oversee geography and geospatial instruction, maintain the Geospatial Lab schedule, ensure that course content is current, and geospatial and geography curricula changes.
2012 – 2017	Chair of Geosciences Courses and Curriculum Committee
2012 – 2017	Geosciences Distance Learning Oversight Committee
2014 - 2017	Chair Geosciences Promotion and Tenure Committee
2010	Five-Year Department Review , wrote section on undergraduate education.

Department Search Committees:

Chair	GIS Assistant Professor (2016 – 2017), Human Geographer Assistant Professor (2015 – 2016), Geospatial/Geology Assistant Professor (2012), GIS Assistant Professor (2011), GIS Instructor (2008), Remote Sensing Assistant Professor with GRI (2008), Business Manager (2017)
Committee	GIS Clinical Teaching Faculty (2015-2016), Department of Geosciences Office Staff (2013 , 2014).

Academic Service:

2015-2016	Southeastern Division of Association of American Geographers Awards and Nominations Committee
2006 – 2008	State Representative for the Southeastern Division of the Association of American Geographers.
2002 – 2004	Southeastern Division of Association of American Geographer Honors Committee.

2002-2003

Southeastern Division of Association of American Geographers
World Geography Coach for the State of Mississippi