

Qingmin Meng

Department of Geosciences

Mississippi State University, MS 39762-5488

E-Mail: qmeng@geosci.msstate.edu Phone: 1-662- 268-1032 ext.240 (office)

<http://qingmin.info>

www.geosciences.msstate.edu/people/professors/qingmin-meng/

Education

PhD	School of Forestry and Natural Resources, University of Georgia	2006
	Dissertation title: “Fine Spatial Resolution Forest Inventory for Georgia: Remote Sensing Based Geostatistical Modeling and K Nearest Neighbor Method”	
Certificate in Geographic Information Science, Dept. of Geography, University of Georgia		2006
MS	Statistics, Department of Statistics, University of Georgia	2005
PhD	Department of Geography, Peking University, China	2001
MS	Department of Geography, Lanzhou University, China	1997
BS	Department of Geography, Shandong Normal University, China	1994

Professional Experience

Associate Professor	Dept. of Geosciences, Mississippi State University	2018 –
Assistant Professor	Dept. of Geosciences, Mississippi State University	2012 – 2018
Visiting Assistant Professor	Dept. of Geography & Planning, SUNY at Albany	2010 – 2012
Associate Director of Computing & Technology	Center for Applied GIS University of North Carolina at Charlotte	2008 – 2010
Post-doc Researcher	School of Forestry and Natural Resources University of Georgia	2007 – 2008

Research and Teaching Interest

GIS, Remote Sensing, Geospatial Statistics, and Geospatial Big Data
Ecosystems, Fracking, Landscape Ecology, Spatial Epidemiology, Gulf Coast

Awards

CHANS Fellowship. 2010. International Network of Research on Coupled Human and Natural Systems, National Science Foundation and Michigan State University

UCGIS / ESRI Junior Faculty Award. 2010. The University Consortium for Geographic Information Science (UCGIS)

UCGIS Student Paper Award. 2006. The University Consortium for Geographic Information Science (UCGIS) 2006 Summer Assembly, Vancouver WA, June 28 –July 1, 2006.

3rd place. 2005. Geostatistical Mapping for Large Area Forest Inventory Using Remote Sensing Data. 2005 American Society of Photogrammetry and Remote Sensing Mid-South Conference. Athens, GA. Nov. 10-11, 2005.

Publications († denotes students or visiting scholars)

Book chapters

1. **Meng, Q.** 2017. “Fracking” in Handbook of Climate Change Mitigation and Adaptation, Chen, Wei-Yin, Suzuki, Toshio, Lackner, Maximilian (Eds, 2017 Edition). Springer, ISBN 978-3-319-14410-8.
2. **Meng, Q.** 2010. Aerial imagery: Data. In B. Warf (Ed.), *Encyclopedia of geography*. (pp. 18-23). Thousand Oaks, CA: SAGE Publications, Inc. doi: <http://dx.doi.org/10.4135/9781412939591.n10>.
3. **Meng, Q.** 2009. DVD of GIS resources and datasets. In: M. Madden (Ed) *Manual of Geographic Information Systems*. 1st edition, ASPRS Publisher.

Peer-reviewed journal papers

4. Li[†], T., **Meng, Q.** 2018. A mixture emissivity analysis method for urban land surface temperature retrieval from Landsat 8 Data. *Landscape and Urban Planning*, 179, 63-71.
5. **Meng, Q.** 2018. Environmental and health risks of hydraulic fracturing. *Current Opinion in Environmental Science & Health*. 3, A1-A4.
6. **Meng, Q.** 2018. Rethink potential risks of toxic emissions from natural gas and oil mining. *Environmental Pollution*. 240, 848-857
7. **Meng, Q.** 2018. Fracking equity: A spatial justice analysis prototype. *Land Use Policy*. 70, 10-15.
8. Bise, R.D., Rodgers, J.C., Magiugan, M., Beaulieu, B., Keith, W., **Meng, Q.** Magiugan, C., 2018. Sidewalks as measures of infrastructure inequities. *Southeastern Geographer*, 58, 39-57.
9. Yang[†], Y., Zhang[†], D., **Meng, Q.**, Yu, W., & Yuan, L. 2017. Stratified evolution of urban residential spatial structure in China through the transitional period: A case study of five categories of housings in Chengdu. *Habitat International*. 69, 78-93
10. **Meng, Q.**, 2017. The impacts of fracking on the environment: A total environmental study paradigm. *Science of the Total Environment*. 580:953-957.
11. Li[†], T. and **Meng, Q.**, 2016. Forest dynamics to precipitation and temperature in the Gulf of Mexico coastal region. *International Journal of Biometeorology*. 61(5):869-879.
12. **Meng, Q.**, 2016. The spatiotemporal characteristics of environmental hazards caused by offshore oil and gas operations in the Gulf of Mexico. *Science of the Total Environment*. 565, 663–671.
13. Yang[†], Y., **Meng, Q.**, McCarn, C., Cooke, W., Rodgers, J., Shi, K. 2016. Effects of path dependencies and lock-ins on urban spatial restructuring in China: A historical perspective on governments role in Lanzhou since 1978. *Cities*. 56, 24-34.
14. Maguigan[†], M., Rodgers, J., Dash, P., **Meng, Q.** 2016. Assessing net primary production in montane wetlands from proximal, airborne, and satellite remote sensing. *Advances in Remote Sensing*, 5(2), 118-130.
15. **Meng, Q.** 2015. Spatial analysis of environment and population at risk of natural gas fracking in the state of Pennsylvania, USA. *Science of the Total Environment*. 515-516:198-206.
16. **Meng, Q.** 2015. Regional landscape mapping through a method of chain standardization of Landsat images. *Landscape and Urban Planning*, 134:1-9.
17. **Meng, Q.** 2015. Modeling and prediction of natural gas fracking pad landscapes

- in the Marcellus Shale region, USA. A rejoinder to Klein and Manda. *Landscape and Urban Planning*, 136, 52-53.
18. Yang[†], Y. Zhang[†], D., **Meng, Q.**, McCarn, C. 2015. Urban residential land use reconstruction under dual-track mechanism of market socialism in China: A case study of Chengdu. *Sustainability*, 7(12), 16849-16865.
 19. **Meng, Q.** and Ashby, S. 2014. Distance: A critical aspect for environmental impact assessment of hydraulic fracking. *The Extractive Industries and Society* (<http://www.sciencedirect.com/science/article/pii/S2214790X14000513>).
 20. **Meng, Q.** 2014. Modeling and prediction of natural gas fracking pad landscapes in the Marcellus Shale region, USA. *Landscape and Urban Planning* 121:109-116.
 21. **Meng, Q.** 2014. Regression kriging versus geographically weighted regression for spatial interpolation. *International Journal of Advanced Remote Sensing and GIS*, 3(1): 598-605.
 22. **Meng, Q.**, Cooke, B., Rodgers, J. 2013. Derivation of 16-day time-series NDVI data for environmental studies using a data assimilation approach. *GIScience & RemoteSensing* 50(5): 500-514.
 23. **Meng, Q.**, Liu, Z., Borders, B. 2013. Assessment of regression kriging for spatial interpolation - Comparisons of seven available GIS interpolation methods. *Cartography and Geographic Information Science*, 40: 28-39.
 24. **Meng, Q.**, Meentemeyer, R. 2011. Modeling of multi-strata forest fire severity using LandsatTM data. *International Journal of Applied Earth Observation and Geoinformation*. 13:120-126.
 25. Lamsal, S, Cobb, C.; Cushman, J. H., **Meng, Q.**, Rizzo, D., Meentemeyer, Ross K. 2011. Spatial estimation of the density and carbon content of host populations for *Phytophthoraramorum* in California and Oregon. *Forest Ecology and Management*, 262:989-998.
 26. Bacchus, S., Masour, J., Madden, M. Jordan, T., **Meng, Q.** 2011. Geospatial analysis of depressional wetlands near Peace River watershed phosphate mines, Florida, USA. *Environmental & Engineering Geoscience*, Vo. XVII, No. 4, pp391-415.
 27. **Meng, Q.**, Borders, B.E., and Madden, M. 2010. High spatial resolution image fusion using regression kriging. *International Journal of Remote Sensing*. 31 (7):1857-1876.
 28. **Meng, Q.**, Cieszewski, C.J., Strub, M.E. and Borders, B.E. 2009. Spatial regression modeling of tree height-diameter relationships. *Canadian Journal of Forest Research*, 39(12):2283-2293.
 29. **Meng, Q.**, Borders, B.E., Cieszewski, C.J., and Madden, M. 2009. Closest spectral fit for removing clouds and cloud shadows. *Photogrammetric Engineering & Remote Sensing*. 75(5): 569-576.
 30. **Meng, Q.**, Cieszewski, C.J., and Madden, M. 2009. Large area forest inventory using LandsatETM+: A geostatistical approach. *ISPRS Journal of Photogrammetry and Remote Sensing*. 64(1): 27-36.
 31. Lowe, R.C., Cieszewski, C.J., Liu, S., **Meng, Q.**, Siry, J.P, Zasada, M., Zawadzki, J. 2009. Assessment of Stream Management Zones and Road Beautifying Buffers in Georgia, USA, Based on Remote Sensing and Various Ground Inventory Data. *Southern Journal of Applied Forestry* 33(2), 91-100.
 32. **Meng, Q.**, Cieszewski, C.J., Madden, M., and Borders, B.E. 2007. A linear mixed-effects

model of biomass and volume of trees using Landsat ETM+ images. *Forest Ecology and Management*. 244 (1-3): 93-101.

33. **Meng, Q.**, Cieszewski, C.J., Madden, M. and Borders, B.E. 2007. K nearest neighbor method for forest inventory using remote sensing data. *GIScience & Remote Sensing*. 44(2): 149-165.
34. **Meng, Q.**, and Cieszewski, C.J. 2006. Spatial clusters and variability analysis of tree mortality. *Physical Geography*. 27(6): 534-553.

Refereed full papers in proceedings:

35. Li[†], T., and **Meng, Q.** 2017. Application of random effects to explore dynamics of the Gulf forests in relation to meteorological factors. In the Proceedings of the 11th Southern Forestry and Natural Resource Management GIS Conference. University of Georgia. Athens, GA.
36. Li[†], T. and **Meng, Q.** 2016. Development of an emissivity mixture technique to assess spatial thermal pattern in New Orleans. In the Proceedings of the 10th Southern Forestry and Natural Resource Management GIS Conference. University of Georgia. Athens, GA. pp39-48.
37. **Meng, Q.** 2010. Two local spatial interpolators: regression kriging versus geographically weighted regression. Published online: http://www.ucgis.org/e-alerts/August_2010_UCGIS_eAlert_4/August_2010_UCGIS_eAlert_4.htm
38. Singh[†], K.K., Vogler, J.B., **Meng, Q.**, Meentemeyer, R.K. 2010. Mapping land use patterns in an urbanizing landscape using LiDAR intensity data. In Optical Remote Sensing of the Environment, OSA Technical Digest (CD) (Optical Society of America, 2010), paper OMC2.
39. **Meng, Q.** 2006. Geostatistical prediction and mapping for large area forest inventory using remote sensing data. 2006 UCGIS (University Consortium for Geographic Information Science) Summer Assembly. Published online: <http://ucgis.org/summer2006/studentssessions.htm>.
40. **Meng, Q.**, and Cieszewski, C.J. 2006. Using geo-spatial methods for derivation of fine resolution forest inventory in Georgia from ground inventory data and Landsat imagery. *Proceedings of SOFOR GIS, 5th Southern Forestry and Natural Resources GIS Conference*. pp51-62.
41. **Meng, Q.**, and Cieszewski, C.J. 2004. Modeling biomass and timber volume by using an allometric growth model from Landsat TM images. *Proceedings of 2nd International Conference on Forest Measurements and Quantitative Methods and Management & the 2004 Southern Mensurationists Conference*. pp15-27.
42. **Meng, Q.**, Cieszewski, C.J., Lowe, R., and Zasada, M. 2003. A three-step approach to model tree mortality in the state of Georgia, *Proceedings of 5th Annual Forest Inventory and Analysis Symposium*. pp96-101.
43. **Meng, Q.**, and Cieszewski, C.J. 2003. Spatial pattern analysis of forest tree mortality in the state of Georgia, *Proceedings of 2003 Joint Conference of the Southern Mensurationists and Northeastern Mensurationists Organization*. pp2-11.

Conference proceedings

44. Merry, K., Bettinger, P., Brown, T., Cieszewski, C. Fan, J., Hubbard, B., **Meng, Q.**, Siry, J.,

- Song, B., Unger, D., Weaver, S. 2015. *The Proceedings of 10th Southern Forestry and Natural Resource Management GIS Conference*. University of Georgia. Athens, GA. http://www.soforgis.net/2015/files/2015_SOFOR_Proceedings_for_web.pdf.
45. Merry, K., Bettinger, P., Brown, T., Cieszewski, C. Fan. J., **Meng, Q.**, Siry, J., B. Song. 2013. *The Proceedings of 9th Southern Forestry and Natural Resource Management GIS Conference*. University of Georgia. Athens, GA. <http://www.soforgis.net/2013/>.

Data Products

Ecological Systems Classification 2011 Update for the Eastern GCPO LCC Geography. Accessible at the Gulf Coastal Plains and Ozarks LCC's Conservation Planning Atlas Server:
<https://gcpolcc.databasin.org/galleries/8ff705a6e3a14e3ea1cfd00feb2d9b12>
<https://lccnetwork.org/resource/ecological-systems-classification-2011-update-eastern-gcpo-lcc-geography>

Teaching

Instructor:

Current teaching at Dept. of Geosciences, Mississippi State University	2012-
GR 8303 Advanced Geodatabase Systems (Fall)	
GR 4/6363 Python GIS Programming (Spring)	
GR 4/6353 Geodatabase Design (Spring)	
GR 4/6323 Cartographic Science (Fall)	
GR 4/6313 Advanced GIS (Fall)	
Courses instructed in Dept. of Geography and Planning, SUNY-Albany	2010-2012
GOG 484 RS I, Remote Sensing of Environment	
GOG 485 RS II, Advanced Remote Sensing	
GOG 406 Topics in Geographic Information Systems	
GOG 597 Advanced GIS	
GOG 697 GIS Programming	
GOG 101 Introduction to the Physical Environment	
Courses instructed in Dept. of Geography and Geosciences, University of North Carolina	
–Charlotte	2008-2010
GEOG 6030 Advanced GIS	
GEOG 6030 Remote Sensing of the Environment	
Courses instructed in the Northern Georgia University	2005-2006
GEOG 1111 Introduction to Physical Geography	
GEOG 1112 Introduction to Weather and Climate	
Courses instructed at University of Georgia	2005
FORS 7210 Spatial Analysis for Natural Resources	

Guest lecture:

ESCI 4000/5000 Environmental Modeling with GIS. *An overview of Geostatistics*. University of North Carolina – Charlotte, October 2008.
 GEOG 8450 Geospatial Technologies for Landscape Analysis. *Model, Equation, Algorithm, and Landscape Analysis*, September 2006 and September 2007.
 FORS4710/6710 Quantitative Decision Method for Forest Management. *Applications of Linear Programming and GIS for Forest Land Management*, November 2006.

Academic Presentations and Conference Posters (†denotes students)

- 2018 Meng, Q. A quantitative modeling approach for regional landslide susceptibility analysis. The 6th Mississippi Geospatial Conference, Long Beach, Mississippi, Oct. 11-12, 2018.
 Meng, Q. Understand the decline dynamics of world saline lakes: A case study of the Great Salt Lake 1904 – 2016. The 3rd Annual Water Policy Summit, University of Alabama, March 27 – 29, 2018.
- 2017 Meng, Q. Dynamics of Gulf Coast forests in relation to meteorological factors. 11th SORFO GIS Conference, Athens, GA December 11-12, 2017.
 Li[†], T and Meng, Q. Application of random effects to explore dynamics of Gulf forests in relation to meteorological factors. 11th SORFO GIS Conference, Athens, GA December 11-12, 2017.
 Li[†], T and Meng, Q. Gulf Coast forests Dynamics to meteorological factors and Soil. 11th SORFO GIS Conference, Athens, GA December 11-12, 2017.
 Hossain[†], K., Chaney, P., Meng, Q. GIS analysis of flooding susceptibility assessment in Village Creek, AL. 11th SORFO GIS Conference, Athens, GA December 11-12, 2017.
 Li[†], T and Meng, Q. Mixture analysis of emissivity for estimation of urban surface temperature using Landsat 8 imagery. 2017 AAG conference. Boston, MA. 04/05-09, 2017.
- 2016 Meng, Q. The impacts of uncertainty in imagery processing on quantitative modeling. 2016 Applied Geography Conference, Louisville, KY, 10/26-28, 2016.
 Meng, Q. The efficiency of imagery chain standardization in reducing uncertainty impacts on massive remote sensing data based on geovisualization and geocomputation. 2016 Applied Geography Conference, Louisville, KY, 10/26-28, 2016.
 Meng, Q. A variogram modeling approach for spatial dependence and correlation of offshore oil and gas hazards. 2016 Applied Geography Conference, Louisville, KY, 10/26-28, 2016.
- 2015 Meng, Q. Large scale multi-temporal satellite imagery chain standardization for remote sensing big data analysis (invited presentation at Electrical and Computer Engineering, MSU), April, 27, 2015
 Meng, Q. Develop a remote sensing protocol to characterize wetlands at Northern Gulf Coastal Zone of Mexico, 2015 American Society of Agricultural and Biological Engineering Annual Meeting. New Orleans, LA, July 26-29, 2015.
 Li[†], T. and Meng, Q. Spatial patterns of vegetation in response to climate change in Gulf of Mexico coastal region USA. AAG 2015 Annual Meeting, Chicago, IL April 21-25, 2015.
- 2014 Meng, Q. LS2SRC: Landsat Scene to State and Regional Landscape Ecological

- Classification and Mapping (Poster). 2014 National Workshop on Large Landscape Conservation. Washington D.C. October 23-24, 2014.
- Meng, Q. Residential spatial restructuring forms a new center-periphery in China. Applied Geography Conference. Oct. 15-17, Atlanta, GA.
- Meng, Q. Large area landscape mapping through a method of chain standardization of Landsat images, 2014 US-IALE Conference, Anchorage, AK. May 18-22, 2014.
- Li[†], T. and Meng, Q. Study of urban land surface temperature inversion based on emissivity mixture analysis at sub-pixel scale. ASPRS 2014 Annual Conference, Louisville, Kentucky, March 23-28, 2014.
- 2013 Meng, Q. Mapping of Natural Gas Fracking Landscape Using Five Machine Learning Classifiers SOFORGIS 2013. Athens, GA. December 8 – 10, 2013.
- Meng, Q. Modeling and prediction of natural gas fraction landscapes. 2013 US-IALE Conference. Austin, TX, April 14-18, 2013.
- 2010 Meng, Q. Two local- spatial interpolators: regression kriging vs. geographically weighted regression, *2010 UCGIS Summery Assembly*, Hilton Head Island, SC. June 15-16, 2010.
- Meng, Q. Multi-strata forest fire severity modeling in heterogeneous landscapes using hyperspectral imagery. *2010 Annual AAG (American Association of Geographers) Meeting*. Washington D.C. April 14-18, 2010.
- Meng, Q. Large area multi-strata forest fire severity modeling using alternative remote sensing of Landsat, AVIRIS, and MASTER. *The 2010 US-IALE Symposium*. Athens, GA. April 5-9, 2010.
- 2009 Meng, Q. A New Model for Reconstructing Spatial Dispersal Progress of Point-source Pathogen, *2009 AAG Annual Conference*. Las Vegas, NV. March 22-26, 2009.
- Meng, Q. Spatial and Landscape Heterogeneity of Fire Severity, *The 2009 US-IALE Symposium*. Snowbird, UT. April 12-16, 2009.
- Meng, Q. Mapping the Impacts of Sudden Oak Death Tree Mortality on Severity of the Big Sur Basin Complex Fire, *The 4th SOD Science Symposium*. Santa Cruz, CA. June 15-18, 2009.
- 2008 Meng, Q. Spatial Dispersal Modeling of Sudden Oak Death in Oregon, *SEDAAG: 2008 Annual Meeting*. Greensboro, NC. Nov. 22-25, 2008.
- 2007 Meng, Q. Two Simple Methods for Removing Clouds and Cloud Shadows from Satellite Images, *American Society for Photogrammetry and Remote Sensing (ASPRS) 2007 Annual Conference*. Tampa, FL. May 7-11, 2007.
- Meng, Q. Nearest Neighbor Analysis: A Simple and Powerful Geographic Information Science Function, *The ASPRS 2007 Annual Conference*. Tampa, FL. May 7-11, 2007.
- Meng, Q. Nearest Neighbor Method: a Simple and Powerful GIScience Function, *The 2007 AAG Conference*. San Francisco, CA. April 17-21, 2007.
- 2006 Meng, Q. Comparisons of Methods for Large Area Forest Inventory Using Remotely Sensed Data, *8th Annual Forest Inventory and Analysis Symposium*. Monterey, CA. Oct. 16-19, 2006.
- Meng, Q. Spatial Clusters, Dependence and Variation of Tree Mortality, *The 8th Annual Forest Inventory and Analysis Symposium*. Monterey, CA. Oct. 16-19,

- 2006.
- Meng, Q. Spatial Autoregressive Modeling Tree Height-diameter Relationships, *The 2006 Southern Mensurationists Conference*. Charleston, SC. Oct.10-13, 2006.
- Meng, Q. Geostatistical Prediction and Mapping for Large Area Forest Inventory Using Remote Sensing Data, *2006 UCGIS Summer Assembly*. Vancouver, WA. June 28-July 1. 2006.
- Meng, Q. Using Geospatial Methods for Derivation of Fine Resolution Forest Inventory in Georgia from Ground Inventory Data and Landsat Imagery, *The Fifth Southern Forestry and Natural Resource Management GIS Conference*. Asheville, NC. June 12-14, 2006.
- 2005 Meng, Q. Discussion on the K Nearest Neighbor Methods Applied in Remote Sensing Data, *The 2005 Southeastern Ecology and Evolution Conference*. Athens, GA. March 11-13, 2005.
- Fine Scale Forest Inventory by Using a Geostatistical Approach, *The 2005 Annual Conference of Southern Mensurationists*. Wilmington, NC. July 11-13, 2005.
- Meng, Q. K Nearest Neighbor Methods for Forest Inventory Using Remote Sensing Data, *The 2005 Mid-Southern Conference of American Society of Photogrammetry and Remote Sensing*. Athens, GA. November 10-11, 2005.
- Meng, Q. Geostatistical Mapping for Large Area Forest Inventory Using Remote Sensing Data, *The 2005 Mid-Southern Conference of American Society of Photogrammetry and Remote Sensing*. Athens, GA. November 10-11, 2005.
- 2004 Meng, Q. Modeling Biomass and Timber Volume by Using an Allometric Growth Model from Landsat TM Images, *The 2nd International Conference on Forest Measurements and Quantitative Methods and Management & 2004 Southern Mensurationists Conference*. Hot Springs, AR. June 15-18, 2004.
- Meng, Q. Modeling Biomass and Timber Volume from Landsat Images, *The 2004 Western Mensurationists' Conference*. Warm Springs, OR. June 20-22, 2004.
- 2003 Meng, Q. Geostatistical Approach to Mortality Pattern Analysis Using Remote Sensing and Large-scale Inventory Ground Measurements, *The 2003 Joint conference of the Southern Mensurationists and Northeastern Mensurationist*. Organization, Roanoke, VA. Oct. 5-7, 2003.
- Meng, Q. A Three-step Approach to Model Tree Mortality in the State of Georgia, *The 5th Annual Forest Inventory and Analysis Science Symposium*. New Orleans, LA. Nov. 17-22, 2003.

Student Advising

Graduate students:

Advisor: Khalid Hossain (PhD)

Sadia Shammi (PhD)

Tianyu Li (PhD, graduated 2017)

Abdulla Sherif (MS, graduated 2018)

Corey McCarn (MS, graduated 2015)

Minor Professor: Isidro Barela (MS, 2018; wildlife), Robert Devon Bise (MS, 2015)

Committee for current graduate students: Kit Posada (PhD), John Cartwright (PhD),

Matthew Regan (PhD), Jamie McFadden (PhD), Yan Xu (PhD in ECE), Long

Tian (PhD in ECE), Benjamin Kingsdorf (PhD in ECE), and Mike Rhodes (MS, wildlife)

Committee for the graduated: Pushkar Inamdar (PhD, 2018), Saurav Silwal (PhD, 2018), Chris Zazar (PhD, 2017), Mike Maguigan (PhD, 2015), Ravi Sadasivuni (PhD, 2013), Randi Robison (MS, 2018), Caitlin Ruby (MS, 2017), Sarah Smith (MS, 2017), Robert Devon Bise (MS, 2015), Lucy Tetteh (MS, 2014), and Kabindra Joshi (MS, 2012)

Professional Service

Editorial Board *Current Opinion in Environmental Science & Health*, 2017 -

Senior Editor *International Journal of Advanced Remote Sensing and GIS*, 2014 -

Guest editor Special Issue 2018: “Environmental and health risks of hydraulic fracturing” in *Current Opinion in Environmental Science & Health*

Guest editor Special Issue 2014: “Geospatial Information Sciences: Landscape and Ecosystem Applications”, in *International Journal of Advanced Remote Sensing and GIS*

Proceedings editor 9th and 10th *SOFOR GIS* (Southern Forestry and Natural Resource Management GIS Conference) 2013, 2015, 2017

Proposal review panel US Environmental Protection Agency (2010)

Proposal reviewer NSF (2018)

U.K. the Natural Environment Research Council (2018)

USGS (2017, 2015)

NSF (2014)

NSF (2009)

Reviewer for peer-reviewed journals

Nature

Environmental Health Perspectives

Science of the Total Environment

Computers, Environment and Urban Systems

Environmental Earth Sciences

Cartography and Geographic Information Science

International Journal of GIScience

The Extractive Industries and Society

International Journal of Digital Earth

Environments

Inter. Journal of Advanced Remote Sensing and GIS

IEEE Transactions on Geoscience and RS

Journal of Petroleum Science and Engineering

Annals of Botany

Photogrammetric Engineering and Remote Sensing Forest Science

IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing

Canadian Journal of Forest Research

Forest Ecology and Management
Geoscience & Remote Sensing
Plos ONE
ISPRS Journal of Photogrammetry & RS
Ecological Indicator
ISPRS International Journal of Geo-Information
Biomass and Bioenergy
GISciences and Remote Sensing
J. of Petroleum Science and Engineering
Remote Sensing of Environment
J. of the Franklin Institute
Remote Sensing
Land Degradation & Development
Sensors
Landscape and Urban Planning
Urban Geography
Regional Studies
Applied Geography
Journal of Environmental Management
Journal of Applied Meteorology and Climatology
Ecological Indicators
Habitat International
Natural Resource Research
Society & Natural Resources
Frontiers of Earth Science

Reviewer for conference proceedings

32nd and 33rd Applied Geography Conference
2008, 2009, and 2010 IEEE International Geoscience and Remote Sensing Symposium
The Proceedings of the 9th, 10th, and 11th SOFOR GIS (Southern Forestry and Natural Resource Management GIS) Conference, 2013, 2015, and 2017

University, college, and department service

University Committee on Courses and Curricula, MSU 2018–
University Committee on Courses and Curricula, MSU 2015–17
College of Arts & Sciences Senate, MSU 2015 – 2017
Governance Committee, Department of Geosciences, MSU 2014
Ad hoc Geosciences Centennial Committee, Geosciences, MSU 2016-2017
Judge, the MSU Graduate Student Research Symposium, 2013
IT Committee Chair, Center for Applied GIS, UNC at Charlotte, 2008–2010
Search Committee, Assistant or Associate Professor Position (Forest Economics), School of Forestry and Natural Resources, University of Georgia, 2006.
Consultant, “Mapping Soil Organic Carbon Using Color Aerial Photos.” Department of Crop & Soil Science, University of Georgia. Summer, 2004.
Consultant, “Herb Plant Classification.” Biomedical and Health Science Institute, University of Georgia. Spring, 2004.

Conference planning committee

The 9th, 10th, and 11th *SOFOR GIS* (Southern Forestry and Natural Resource Management GIS)
Conferences 2013, 2015, 2017

Professional Affiliations

American Society of Photogrammetry and Remote Sensing

Cartography and Geographic Information Society

International Society of Biometeorology