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Education

- Ph.D. Geography (2006), Florida State University, Tallahassee, Florida.
- MSc (1995), University of Agricultural Sciences, Dharwad, India.
- BSc (1992), College of Agriculture, University of Agricultural Sciences, Dharwad, India.

Professional Experiences

- Professor, Department of Geosciences, Mississippi State University, Mississippi State, MS, August 2018 - Present
- Associate Professor, Department of Geosciences, Mississippi State University, Mississippi State, MS, August 2012 - 2018
- Assistant Professor, Department of Geosciences, Mississippi State University, Mississippi State, MS, August 2006 - 2012
- Visiting Assistant Professor, Department of Geosciences, University of West Georgia, Carrollton, GA, August 2005 - May 2006
- GIS Analyst, Florida Resources and Environmental Analysis Center (FREAC), Florida State University, August 2002 - August 2005

Publications

Publications (in Physical geography, GIS, Climate Change and Human Geography)

*Graduate Student

1. Tiwari, S., & Ambinakudige, S. (2024). Reconsidering household food insecurity: Assessing the impact of neighborhood and household characteristics. *Journal of Hunger & Environmental Nutrition*, 1–23. <https://doi.org/10.1080/19320248.2024.2355938>
2. Lichter, D. T., Parisi, D., Ambinakudige, S., & Scott, C. K. (2024). Reevaluating the spatial scale of residential segregation: Racial change within and between neighborhoods. *Demography*, 61(2), 307–336. <https://doi.org/10.1215/00703370-11195639>
3. Ambinakudige, S., & Bernard, A. (2024). Inventory of Western United States glaciers 2020. *Scholars Junction*. <https://scholarsjunction.msstate.edu/cas-publications/37/>
4. *Bernard, A., & Ambinakudige, S. (2023). Status of glaciers in the Western United States based on Sentinel-2A images and machine learning algorithm. *ESS Open Archive*. <https://doi.org/10.22541/essoar.170224543.35037930/v1>
5. *Ahmed, Z., Ambinakudige, S., & Fosu, B. (2023). Does integrating climate change projection with agriculture policy improve agricultural adaptation and food security? Evidence from Bangladesh. *Theoretical and Applied Climatology*. <https://doi.org/10.1007/s00704-023-0464>
6. *Ali, A., Sherman-Morris, K., Meng, Q., & Ambinakudige, S. (2023). Longitudinal disparities in social determinants of health and COVID-19 incidence and mortality in the United States from the three largest waves of the pandemic. *Spatial and Spatio-temporal Epidemiology*, 46, 100604. <https://doi.org/10.1016/j.sste.2023.100604>
7. *Ahmed, Z., Ahmed, M., Hussain, A. H. M. B., Alam, R., Ambinakudige, S., Kamal, M., & Chowdhury, M. (2023). Do socio-demographic factors influence water-fetching practices? Evidence from the southwestern coastal region of Bangladesh. *Society & Natural Resources*. <https://doi.org/10.1080/08941920.2023.2234872>

8. *Ahmed, Z., & Ambinakudige, S. (2023). Does land use change, waterlogging, and salinity impact sustainability of agriculture and food security? Evidence from the southwestern coastal region of Bangladesh. *Environmental Monitoring and Assessment*, 195, 74. <https://doi.org/10.1007/s10661-022-10673-w>
9. Parisi, D., Lichter, D. T., Ambinakudige, S., & Scott, C. (2023). Comparative patterns of Black residential segregation from Whites and other minorities in racially diverse municipalities. *Population Association of America*, New Orleans, LA, April 12-15, 2023.
10. *Ali, A., Sherman-Morris, K., & Ambinakudige, S. (2022). Spatial exploration of social vulnerability and COVID-19-related health outcomes in Mississippi. *Southeastern Geographer*, 62(3), 213-230.
11. *Tiwari, S., & Ambinakudige, S. (2022). The environment-human migration nexus: An empirical overview. *Annals of Social Science & Management Studies*, 7(5).
12. *Ahmed, Z., Alam, R., Hussain, A. H. M. B., & Ambinakudige, S. (2022). Agricultural land conversion and land surface temperature change in four industrial areas in Bangladesh: Results from remote sensing and DPSIR approach. *Arabian Journal of Geosciences*, 15, 932. <https://doi.org/10.1007/s12517-022-10049-x>
13. Ambinakudige, S., & *Intsiful, A. (2022). Estimation of area and volume change in the glaciers of the Columbia Icefield, Canada using machine learning algorithms and Landsat images. *Remote Sensing Applications: Society and Environment*, 26, 100732. <https://doi.org/10.1016/j.rsase.2022.100732>
14. *Ahmed, Z., Hussain, A. H. M. B., & Ambinakudige, S. (2022). Perceived human-induced causes of landslide in Chattogram Metropolitan Area in Bangladesh. *Earth Systems and Environment*, 6, 499–515. <https://doi.org/10.1007/s41748-022-00304-2>
15. *Ahmed, Z., Alam, R., Ahmed, M. N. Q., & Ambinakudige, S. (2022). Does anthropogenic upstream water withdrawal impact downstream land use and livelihood changes of Teesta transboundary river basin in Bangladesh? *Environmental Monitoring and Assessment*, 194, 59. <https://doi.org/10.1007/s10661-021-09726-3>
16. Dash, P., *Devkota, M., Mercer, A. E., & Ambinakudige, S. (2022). A geographic weighted regression approach for improved total alkalinity estimates in the Northern Gulf of Mexico. *Environmental Modelling & Software*, 148. <https://doi.org/10.1016/j.envsoft.2021.105275>
17. *Tiwari, S., & Ambinakudige, S. (2021). Neighborhood food insecurity index to identify food vulnerability and food deserts in the United States. *Journal of Food Security*, 9(4), 148-159. <https://doi.org/10.12691/jfs-9-4-2>
18. Chowdhury, T. R., *Ahmed, Z., Islam, S., Akter, S., Ambinakudige, S., & Kung, H. (2021). Trend analysis and simulation of human vulnerability based on physical factors of riverbank erosion using RS and GIS. *Earth Systems and Environment*. <https://doi.org/10.1007/s41748-021-00247-0>
19. *Tiwari, S., & Ambinakudige, S. (2021). Neighborhoods with MLK streets are poorer than national average and highly segregated, study reveals. *The Conversation*, January 15, 2021. <https://theconversation.com/neighborhoods-with-mlk-streets-are-poorer-than-national-average-and-highly-segregated-study-reveals-152882>
20. *Intsiful, A., & Ambinakudige, S. (2021). Glacier cover change assessment of the Columbia Icefield in the Canadian Rocky Mountains, Canada (1985–2018). *Geosciences*, 11(1), 19. <https://doi.org/10.3390/geosciences11010019>
21. Ambinakudige, S. (2020). Future coastal population and ecosystem exposure to sea level rise along the European coastline. *European Journal of Environment and Earth Sciences*, 1(5). <https://doi.org/10.24018/eigeo.2020.1.5.80>
22. Lichter, D., Parisi, D., & Ambinakudige, S. (2020). The spatial integration of immigrants in Europe (L'intégration spatiale des immigrés en Europe). *N-IUSSP*, September 14, 2020. <https://www.niussp.org/article/the-spatial-integration-of-immigrants-in-europe/>
23. *Tiwari, S., & Ambinakudige, S. (2020). Streetscapes and stereotyping: Streets named after Martin Luther King, Jr., and the geographies of racial identity. *GeoJournal*. <https://doi.org/10.1007/s10708-020-10291-4>
24. Ambinakudige, S., & *Intsiful, A. (2020). Spatiotemporal analyses of changing cropping patterns and crop rotations in the Mississippi Delta. *Journal of the Mississippi Academy of Sciences - Special issue on Agriculture and Plant Sciences*, 65(3), 228-236.
25. *Lotfata, A., & Ambinakudige, S. (2020). Degradation of groundwater quality in the coastal aquifers of the USA. *Sustainable Water Resources Management*, 6(41). <https://doi.org/10.1007/s40899-020-00403-w>
26. Lichter, D., Parisi, D., & Ambinakudige, S. (2020). The spatial integration of immigrants in Europe: A cross-national study. *Population Research and Policy Review*. <https://doi.org/10.1007/s11113-019-09540>
27. *Lotfata, A., & Ambinakudige, S. (2019). Factors affecting the spatial pattern of nitrate contamination in Texas aquifers. *Management of Environmental Quality: An International Journal*, 31(4).

28. Zheng, Z., Xia, H., Ambinakudige, S., Qin, Y., Li, Y., Xie, Z., Zhang, L., & Gu, H. (2019). Spatial accessibility to hospitals based on web mapping API: An empirical study in Kaifeng, China. *Sustainability*, 11(4), 1160. <https://doi.org/10.3390/su11041160>
29. *Lotfata, A., & Ambinakudige, S. (2019). Spatio-temporal analysis of nitrate contamination in Texas aquifers. *International Journal of Environmental Studies*, 76(1), 86-98.
30. Ambinakudige, S., *Inamdar, P., & *Lotfata, A. (2018). A spectral analysis of snow in Mt. Rainier. *Journal of Geography and Geology*, 10(3), 20-25.
31. Ambinakudige, S., *Inamdar, P., & *Dixon, L. (2018). Remote sensing of cryosphere: Estimation of glacier mass balance in the Andes and in the US. *42nd COSPAR Scientific Assembly*. Held 14-22 July 2018, in Pasadena, California, USA. Abstract id. A3.1-44-18. <http://adsabs.harvard.edu/abs/2018cosp...42E..83A>
32. Ambinakudige, S., Parisi, D., Cappello, G., & Lotfata, A. (2017). Diversity or segregation? A multi-decadal analysis of demographics of Atlanta neighborhoods. *Spatial Demography*, 1-22. <https://doi.org/10.1007/s40980-017-0034-z>
33. Ambinakudige, S. (2017). Geography of glaciers. In B. Warf (Ed.), *Oxford Bibliographies in Geography*. New York: Oxford University Press.
34. *Inamdar, P., & Ambinakudige, S. (2016). Spatial patterns of glacial changes in Southern America. *Photogrammetric Engineering & Remote Sensing*, 82(10), 811-818.
35. *Inamdar, P., & Ambinakudige, S. (2016). Recent glacier recession in California. *Proceedings of the Imaging & Geospatial Technology Forum (IGTF), 2016*. Fort Worth, Texas, April 11-15, 2016.
36. Ambinakudige, S., & Cappello, G. (2016). Brexit: Potential migration wave and population gains and losses in the European Union and the United Kingdom. *Population Review*, 55(2), 75-80.
37. Lichter, D., Parisi, D., & Ambinakudige, S. (2016). Residential segregation in Europe and the United States: Minority population growth and spatial integration. *European Population Conference*, Mainz, Germany, August 31 - September 3, 2016. Conference Proceedings.
38. Ambinakudige, S., & Parisi, D. (2015). A spatiotemporal analysis of inter-county migration patterns in the United States. *Applied Spatial Analysis and Policy*. <https://doi.org/10.1007/s12061-015-9171-1>
39. *Dixon, L., & Ambinakudige, S. (2015). Remote sensing study of glacial change in the Northern Patagonian Icefield. *Advances in Remote Sensing*, 4, 270-279.
40. Ambinakudige, S., & Joshi, K. (2015). Multi-decadal changes in glacial parameters of the Fedchenko Glacier in Tajikistan. *International Journal of Advanced Remote Sensing and GIS*, 4(1), 911-919.
41. Gorai, A., Tuluri, F., Tchounwou, P., & Ambinakudige, S. (2014). Influence of local meteorology and NO₂ conditions on ground level ozone concentration in eastern part of Texas. *Air Quality, Atmosphere and Health*, 1-6.
42. Ambinakudige, S. (2014). Glaciers. In B. Warf (Ed.), *Oxford Bibliographies in Geography*. New York: Oxford University Press.
43. *Khanal, S., Ambinakudige, S., & Rodgers, J. (2013). A GIS analysis of the spatial relationship between evapotranspiration and pan evaporation in the United States. *Water International*, 38(3), 353-360. <https://doi.org/10.1080/02508060.2013.769075>
44. Ambinakudige, S., & Klooster, D. (2013). Logging rights. In S. L. Danver (Ed.), *Native Peoples of the World: An Encyclopedia*. Armonk, NY: M.E. Sharpe.
45. Rodgers, J. C., III, & Ambinakudige, S. (2012). Distribution patterns of invasive Casuarinas (*Casuarina equisetifolia* L.) within beach environments on San Salvador Island, the Bahamas. *Natural Areas Journal*, 32(4), 386-390.
46. Ambinakudige, S., & Joshi, K. (2012). Remote sensing of cryosphere. In B. Escalante (Ed.), *Remote Sensing - Applications* (pp. 1-12). InTech. <https://doi.org/10.5772/39375>
47. Ambinakudige, S., Parisi, D., & Grice, S. (2012). An analysis of differential migration patterns in the Black Belt and the New South. *Southeastern Geographer*, 52(2), 163-184.
48. Rodgers, J. C., III, Owen-Nagel, A., & Ambinakudige, S. (2012). A geospatial online instruction model. *Review of International Geographical Education Online*, 2(2), 7-24.
49. Ambinakudige, S. (2011). Remote sensing of land cover's effect on surface temperatures: A case study of the urban heat island in Bangalore, India. *Applied GIS*, 7(1), 1-12.
50. Ambinakudige, S. (2011). Book review: Geographic Information Science by Narayan Panigrahi. *Photogrammetric Engineering & Remote Sensing*, 77(6), 607-608.

51. Ambinakudige, S., Choi, J., & *Khanal, S. (2011). A comparative analysis of CBERS-2 CCD and Landsat-TM satellite images in vegetation mapping. *Revista Brasileira de Cartografia*, 63(1), 115-122.
52. Ambinakudige, S. (2011). National parks, coffee, and NTFPs: The livelihood capabilities of Adivasis in Kodagu, India. *Journal of Political Ecology*, 18, 1-10.
53. Ambinakudige, S., & Parisi, D. (2010). Internal migration effectiveness and income effectiveness in the most populous cities in the United States. *Population Review*, 49(2), 1-10.
54. Ambinakudige, S., & *Khanal, S. (2010). Assessment of impacts of Hurricane Katrina on NPP production in Mississippi. *Earth Interactions*, 14, 1-12.
55. Ambinakudige, S. (2010). A study of the Gangotri glacier retreat in the Himalayas using Landsat satellite images. *International Journal of Geoinformatics*, 6(3), 7-12.
56. Ambinakudige, S. (2010). Rice. In K. Albala (Ed.), *Green Food: An A-to-Z Guide*. SAGE Publications. <https://doi.org/10.4135/9781412971874>
57. Ambinakudige, S. (2010). Cash crop. In K. Albala (Ed.), *Green Food: An A-to-Z Guide*. SAGE Publications. <https://doi.org/10.4135/9781412971874>
58. Ambinakudige, S., & Sathish, B. N. (2009). Comparing tree diversity and composition in coffee farms and sacred forests in the Western Ghats of India. *Biodiversity and Conservation*, 18(4), 987-1000.
59. Ambinakudige, S., Choi, J., & Khanal, S. (2009). A comparative analysis of CBERS and Landsat data. *ASPRS 2009 Proceedings*, Baltimore, Maryland, March 9-11, 2009.
60. Ambinakudige, S. (2009). The global coffee crisis and Indian farmers: The livelihood vulnerabilities of smallholders. *Canadian Journal of Development Studies*, 28(3-4), 429-443.
61. Ambinakudige, S., & Choi, J. (2009). Global coffee market influence on land-use and land-cover change in the Western Ghats of India. *Land Degradation and Development*, 20(3), 327-335.
62. Ambinakudige, S. (2009). Revisiting “the South” and “Dixie”: Delineating vernacular regions using GIS. *Southeastern Geographer*, 49(3), 240-256.
63. Ambinakudige, S. (2008). Book review: GIS fundamentals: A first text on geographic information systems by Paul Bolstad. *International Journal of Geographical Information Science*, 22(9), 1035-1036.
64. Klooster, D., & Ambinakudige, S. (2007). La importancia mundial del manejo forestal comunitario en México. In D. B. Bray, D. Barry, & L. Merino-Pérez (Eds.), *Los bosques comunitarios de México: Manejo sustentable de paisajes forestales* (pp. 247-268). México: Instituto Nacional de Ecología.
65. Klooster, D., & Ambinakudige, S. (2005). The global significance of community forestry in Mexico. In D. B. Bray, L. Merino-Pérez, & D. Barry (Eds.), *The Community Forests of Mexico: Managing for Sustainable Landscapes* (pp. 256-276). Austin, TX: University of Texas Press.
66. Klooster, D., & Ambinakudige, S. (2002). Paul Kerkhof. Local forest management in the Sahel: Towards a new social contract. *Cultural and Political Ecology*, 40.
67. Shrinidhi, A. S. (Ambinakudige, S.), & Lele, S. (2001). Forest tenure regimes in Karnataka Western Ghats: A compendium. Bangalore, India: Institute for Social and Economic Change.
68. Parikh, A., Lele, S., Shrinidhi, A. S. (Ambinakudige, S.), & others. (1999). Influence of forest right regimes on sustainability and returns from NTFP harvest: The case of *Garcinia gummi-gutta* in the Western Ghats of India. Proceedings of National Workshop on Joint Forest Management, 25-26 February 1999, VIKSAT, SPWD, AKF (I), Gujarat, India.
69. Ambinakudige, S. (Shrinidhi, A. S.), & Lele, S. (1998). Indian forest policy, forest law and forest rights settlement: A serious match. International Workshop on Capacity Building in Environmental Governance for Sustainable Development, Indira Gandhi Institute for Development Research, Mumbai, India, 8-10 December 1998.

Manuscripts in review

1. Parisi, D., Lichter, D.T., Ambinakudige, S., and Scott, C. Racial Segregation in a Multiracial Society: Black Exclusion and Spatial Integration in U.S. Municipalities, 1990-2020, *Population, Space and Place*.
2. Various authors: Exploring the relationship between Spatio-temporal changes of urban green space on Land surface temperature in the three coastal cities of Bangladesh.
3. Various authors: Why Food stability matters for food security: Analysis crop production, price and import scenarios in Bangladesh.

4. Crockett, D., and Ambinakudige, S. "It rough on a black farmer": Contemporary Experiences of the Black Farmer in the Mississippi Delta.
5. Book Chapter : Lichter, Parisi, Ambinakudige, Johnson. Rural America in Transition? Changing Patterns of In- and Out-Migration in New Immigrant Destinations, 1990 to 2020. *The Handbook of International Migration in Small Towns and Rural Areas* (edited by Eduardo Barberis, Tiziana Caponio, Ruth McAreavey from W4001 and Newcastle)
6. Ong'ondo, F. J., Ambinakudige, S., Malaki, P. A., & Njoroge, P. . Using geographic information systems and remote sensing techniques to classify land cover types and predict grassland bird abundance and distribution in Nairobi National Park, Kenya.
7. Beegumab, S., Reddy, K. R., Ambinakudige, S., & Reddy, V. Planting for perfection: How to maximize cotton quality with the right planting dates in the face of climate change.
8. Kavana, R., Rao, N. R. B. C., Nagaraj, & Ambinakudige, S. (n.d.). Estimation of aboveground carbon stocks of Kudremukh National Park in the Western Ghats of India using multi-sensor remote sensing data and machine learning approach.

Publications (Dissertation and Thesis)

1. **Ambinakudige, S.** 2006. *Differential Impacts of Commodification of Agriculture of People's Livelihoods and the Environment in the Western Ghats of India: An Environmental Entitlement Approach*. PhD Dissertation, Department of Geography, Florida State University.
2. **Ambinakudige, S (Shrinidhi A.S).** 1995. *Tea Plantations in Karnataka: An Economic Analysis*, MSc Thesis, Department of Agricultural Economics, University of Agricultural Sciences, Dharwad, India.

News Coverage:

1. WCBI aired an interview of Dr. Ambinakudige on 09/20/2016 on **GPS Frustration** in the evening news.

Invited Talks

1. Ambinakudige, S. (2023). Moderator of Panel: Embracing the Future: Addressing Emerging AI and Data Science Labor Market Expectations. MAS – Summer Science and Engineering Symposium, July 25, 2023.
2. Ambinakudige, S. (2023). Glacier Status in the US. Department of Geosciences, Mississippi State University.
3. Ambinakudige, S. (2022). Remote Sensing of Cryosphere. Department of Geosciences, Mississippi State University.
4. Ambinakudige, S. (2021). Cryosphere. Department of Geosciences, Mississippi State University.
5. Ambinakudige, S. (2017). Geospatial Analysis of Cryosphere and Water. Department of Agricultural Bioengineering, Mississippi State University. March 7, 2017.
6. Ambinakudige, S. (2017). Food Cultures of India. Department of Food Science, Mississippi State University. March 22, 2017.
7. Ambinakudige, S. (2016). Remote Sensing of Cryosphere. Department of Plant and Soil Science, Mississippi State University. September 14, 2016.
8. Ambinakudige, S. (2016). Food Cultures of India. Department of Food Science, Mississippi State University. April 8, 2016.
9. Ambinakudige, S. (2015). Geospatial Analysis of Homelessness. Panel Discussion of geospatial techniques relevant to Same Kind of Different as Me, the 2015 Maroon Edition book. Mississippi State University. October 8, 2015.
10. Ambinakudige, S. (2014). Geospatial Technologies to Study Human Dimensions of Global Change. ASPRS Student Chapter, Mississippi State University. September 29, 2014.
11. Ambinakudige, S. (2014). Remote Sensing Techniques to Study Global Change and the Earth System. Department of Plant and Soil Science, Mississippi State University. October 8, 2014.
12. Ambinakudige, S. (2013). India. Professional Development Lectures: College of Veterinary Science, Mississippi State University. July 30, 2013.
13. Ambinakudige, S. (2013). A world of changing glaciers. In Teachers Workshop at Mississippi State University. June 18, 2013.
14. Ambinakudige, S. (2012). Political Ecology. CreekRun Geology Symposium-2012 – Biloxi, MS.

Conference/ Seminar Presentations

1. Parisi, D., Lichter, D. T., Ambinakudige, S., & Scott, C. (2023). Comparative patterns of Black residential segregation from Whites and other minorities in racially diverse municipalities. Paper presented at the Population Association of America Annual Meeting, April 12-15, 2023, New Orleans, LA.
2. Bernard, A., & Ambinakudige, S. (2023). Glacier of the western United States: Assessment of area and volume changes since 1940s using Sentinel-2A images and Machine Learning Algorithm. Paper presented at the SEDAAG Meeting, November 18-21, 2023, Norfolk, VA.
3. Ahmed, Z., & Ambinakudige, S. (2023). Does shrimp farming impact agricultural production and food security in coastal Bangladesh? Evidence from farmer perception and remote sensing approach. Paper presented at the SEDAAG Meeting, November 18-21, 2023, Norfolk, VA.
4. Bernard, A., & Ambinakudige, S. (2023). An evaluation of current status of glaciers in the western United States using machine learning algorithms and Sentinel-2A images. Paper presented at the MAS Meeting, Mississippi State University.
5. Ambinakudige, S. (2022). An evaluation of current status of glaciers in the western United States using machine learning algorithms and Sentinel-2A images. Paper presented at the AGU Fall Meeting, December 12-16, 2022, Chicago, IL.
6. Scott, C., Ambinakudige, S., & Parisi, D. (2022). Fear of hunger among Central American migrants in Mississippi. Paper presented at the SEDAAG Meeting, November 20-21, 2022, Atlanta, GA.
7. Scott, C., Ambinakudige, S., & Parisi, D. (2022). Puddles of respite: Spatial migration trends from the dry corridor of Central America to the United States. Paper presented at the Rural Sociological Association Annual Meeting, February 14, 2022, New Orleans, LA.
8. Ali, S. A., Sherman-Morris, K., Meng, K., & Ambinakudige, S. (2022). Longitudinal disparities in social determinants of health and COVID-19 incidence and mortality in the United States from the three largest waves of the pandemic. Paper presented at the Southern Biomedical Engineering Conference 2022, August 25-28, 2022, New Orleans, LA.
9. Ali, S. A., Sherman-Morris, K., & Ambinakudige, S. (2022). Spatial exploration of social vulnerability and COVID-19 related health outcomes in Mississippi. Paper presented at the 86th Mississippi Academy of Science Conference, March 31-April 1, 2022, Biloxi, MS.
10. Panel Discussion: On Writing for The Conversation: Authors Discuss Benefits, Strategies, & Challenges. Chaired by Dr. Derek Alderman. Panelists: Shrinidhi Ambinakudige, Wanyun Shao, Solange Munoz, Jordan Brasher, and Katrina Finkelstein. Paper presented at the SEDAAG Annual Meeting, November 21-22, 2021, Florence, AL.
11. Ahmed, Z., & Ambinakudige, S. (2021). Relationship between spatio-temporal changes of urban green space and land surface temperature in three coastal cities of Bangladesh. Paper presented at the SEDAAG Annual Meeting, November 21-22, 2021, Florence, AL.
12. Ali, S. A., Sherman-Morris, K., & Ambinakudige, S. (2021). Spatial exploration of social vulnerability and COVID-19 related health outcomes in Mississippi. Paper presented at the AAG Annual Meeting, 2021.
13. Tiwari, S., & Ambinakudige, S. (2020). Underlying structure of food deserts. Paper presented at the SEDAAG Annual Meeting, November 6-7, 2020, Virtual Meeting.
14. Tiwari, S., & Ambinakudige, S. (2020). Individual food insecurity in context: A multilevel perspective. Paper presented at the AAG Annual Meeting, April 6-10, 2020, Denver, CO. (Cancelled).
15. Davis, A., & Ambinakudige, S. (2020). Geography of opera music: Landscapes and soundscapes through the lenses of cultural geography and GIS. Paper presented at the AAG Annual Meeting, April 6-10, 2020, Denver, CO. (Cancelled).
16. Intsiful, A., & Ambinakudige, S. (2019). Mapping the Columbia Icefield using machine learning algorithms. Paper presented at the SEDAAG Meeting, November 24-25, 2019, Wilmington, NC.
17. Crockett, D., Kulawardhana, R., Tchounwou, P., & Ambinakudige, S. (2019). Evaluation of urban heat island effect using satellite derived estimates of impervious areas and land surface temperature. Paper presented at the SEDAAG Meeting, November 24-25, 2019, Wilmington, NC.
18. Domenech, J. S., Clary, R. M., Dash, P., Schmitz, D. W., & Ambinakudige, S. (2019). Community perceptions of water resources in local environments. Paper presented at the GSA Annual Meeting, Phoenix, AZ, 2019.

19. Dash, P., Devkota, M., Sankar, M. S., Beshah, W., Mercer, A., & Ambinakudige, S. (2019). Influence of river input on the carbonate chemistry of northern Gulf of Mexico. Paper presented at the Coastal and Estuary Research Federation 2019, November 3-7, 2019, Mobile, AL.
20. Intsiful, A., & Ambinakudige, S. (2019). Change assessment of the Columbia Icefield, Canadian Rocky Mountains. Paper presented at the AAG Annual Meeting, April 3-7, 2019, Washington, DC.
21. Lotfata, A., & Ambinakudige, S. (2019). Groundwater vulnerability assessment using GALDIT_SH model. Paper presented at the AAG Annual Meeting, April 3-7, 2019, Washington, DC.
22. Tiwari, S., & Ambinakudige, S. (2019). The environment and migration nexus: An empirical overview. Paper presented at the AAG Annual Meeting, April 3-7, 2019, Washington, DC.
23. Tiwari, S., & Ambinakudige, S. (2018). MLK Streets as an African-American space and/or a deprived space: An empirical analysis. Paper presented at the SEDAAG Annual Meeting, November 18-19, 2018, Johnson City, TN.
24. Ambinakudige, S., Inamdar, P., & Dixon, L. (2018). Remote sensing of cryosphere: Estimation of glacier mass balance in the Andes and in the US. Paper presented at COSPAR 2018, July 14-22, 2018, Pasadena, CA.
25. Lotfata, A., & Ambinakudige, S. (2017). Analysis of groundwater anomalies estimated by GRACE and GLDAS satellite-based hydrological model in the Gulf of Mexico. Paper presented at the GSA Annual Meeting, Seattle, WA, 2017.
26. Lotfata, A., & Ambinakudige, S. (2017). Analysis of groundwater anomalies estimated by GRACE and GLDAS satellite-based hydrological model in the Gulf of Mexico. Paper presented at the AGU Fall Meeting, November 11-15, 2017, New Orleans, LA.
27. Lotfata, A., & Ambinakudige, S. (2017). Groundwater depletion and drought frequencies: A global analysis. Paper presented at the SEDAAG Meeting, November 19-20, 2017, Starkville, MS.
28. Dash, P., & Ambinakudige, S. (2017). Remote sensing of physical environment using unmanned aerial systems. Special session in the SEDAAG Meeting, November 19-20, 2017, Starkville, MS.
29. Sergi, K., Capello, G., Pittman, C., Ambinakudige, S., May, A., & Adams-Price. (2017). The relationship between fidelity of implementation and classroom quality in early childhood education. Paper presented at the Association for Education Finance and Policy 42nd Annual Conference, March 16-18, 2017, Washington, D.C.
30. Lotfata, A., & Ambinakudige, S. (2016). Natural disaster and vulnerability: An analysis of 2006 flooding in Louisiana. Paper presented at the SEDAAG Annual Meeting, November 20-21, 2016, Columbia, SC.
31. Inamdar, P., & Ambinakudige, S. (2016). Spatiotemporal patterns of ice mass variations and the local climatic factors in the riparian zone of Central Valley, California. Paper presented at the AGU Fall Meeting, December 12-16, 2016, San Francisco, CA.
32. Ambinakudige, S. (2016). Glacial Studies, Climate Change and Biodiversity. Paper presented at the International Conference on Global biodiversity, Climate Change and Sustainable Development (ICBCS-2016), October 15–18, 2016, RGU, Rono Hills, Arunachal Pradesh, India.
33. Panel Discussion: Climate Change Impacts: adaption, mitigations and risk reduction – vision and action plan for the future. (2016). Paper presented at the International Conference on Global biodiversity, Climate Change and Sustainable Development (ICBCS-2016), October 15–18, 2016, RGU, Rono Hills, Arunachal Pradesh, India.
34. Panel Discussion: Think Global and Act Local – The Himalayan environment and livelihood. (2016). Paper presented at the International Conference on Global biodiversity, Climate Change and Sustainable Development (ICBCS-2016), October 15–18, 2016, RGU, Rono Hills, Arunachal Pradesh, India.
35. Lichter, D. T., Parisi, D., & Ambinakudige, S. (2016). Residential Segregation in Europe and the United States: minority population growth and spatial integration. Paper presented at the European Population Conference, August 31 – September 4, 2016, Mainz, Germany.
36. *Inamdhari, P., & Ambinakudige, S. (2016). Recent glacier recession in California. Paper presented at the Imaging & Geospatial Technology Forum (IGTF), April 11–15, 2016, Fort Worth, Texas.
37. Ambinakudige, S., *Carrie Phillips, & *Ayanaz Lotfata. (2016). Environmental and food security: Rivercane ecosystem and basketry in Choctaw Indian Community in Mississippi. Paper presented at the AAG meeting, March 29–April 2, 2016, San Francisco, CA.
38. Ambinakudige, S., Parisi, D., & Cappello, G. C. (2016). Race, Internal Migration and Urban Expansion of Atlanta. Paper presented at the Annual Meeting of Population Association of America, March 31 – April 2, 2016, Washington, D.C.

39. Ambinakudige, S., Parisi, D., & Cappello, G. C. (2015). Geography of Atlanta through the lenses of Race, Migration and Urban Expansion. Paper presented at the SEDAAG Meeting, November 22–24, 2015, Pensacola, FL.
40. Ambinakudige, S. (2015). An analysis of mass balance of glaciers of conterminous United States. Paper presented at the AAG meeting, April 8–12, 2015, Chicago, IL.
41. *Inamdar, P., & Ambinakudige, S. (2014). Spatial analysis of glacial wastage trends in the Andean cryosphere using ICESAT and STRM data. Paper presented at the SEDAAG Meeting, November 22–24, 2014, Athens, GA.
42. *Chambers, M. C., *A. Sherif, & Ambinakudige, S. (2014). Assessing the Accuracy of LiDAR Data in Relation to Building Height. Paper presented at the SEDAAG Meeting, November 22–24, 2014, Athens, GA.
43. *Inamdar, P., & Ambinakudige, S. (2014). Spatial patterns of glacial changes in Southern America. Paper presented at the AAG meeting, April 8–12, 2014, Tampa, FL.
44. *Tetteh, L., & Ambinakudige, S. (2014). A multi-decadal remote sensing study on glacial change in the North Patagonia. Paper presented at the AAG meeting, April 8–12, 2014, Tampa, FL.
45. Ambinakudige, S., & *L. Tetteh. (2013). An Analysis of mass balance of Chilean Glaciers. Paper presented at the AGU Fall meeting, December 5–9, 2013, San Francisco, CA.
46. Ambinakudige, S., & *K. Joshi. (2013). An Analysis of Fedchenko and surrounding glaciers mass balance 2004-2009, Tajikistan. Paper presented at the Davos Atmosphere and Cryosphere Assembly, July 8–12, 2013, Davos, Switzerland.
47. Ambinakudige, S., & *K. Joshi. (2013). Remote Sensing of Cryosphere: Estimation of Mass Balance Change in Fedchenko Glacier, Tajikistan. Paper presented at the AAG meeting, April 9–12, 2013, Los Angeles, CA.
48. *Joshi, K., Ambinakudige, S., & *L. Tetteh. (2012). Mass Balance measurement of Fedchenko Glacier 2004-2009, Tajikistan. Paper presented at the SEDAAG Meeting, November 18–20, 2012, Asheville, NC.
49. Ambinakudige, S., & *K. Joshi. (2012). Remote Sensing of Cryosphere: Estimation of Mass Balance Change in Himalayan Glaciers. Paper presented at the Committee on Space Research (COSPAR) Scientific Assembly, July 14–22, 2012, Mysore, India.
50. Ambinakudige, S., & *K. Joshi. (2012). Mass Balance Change: An Indication of Pressure on Himalayan Glaciers. Paper presented at the Planate under pressure conference, March 26–29, 2012, London, UK.
51. Ambinakudige, S., & *K. Joshi. (2012). Mass balance Measurement of Himalayan Glaciers: A Remote Sensing Approach. Paper presented at the AAG meeting, February 24–28, 2012, New York, NY.
52. Ambinakudige, S. (2011). Remote Sensing Estimates of Glacier Mass Balance Changes in the Himalayas of Nepal. Paper presented at the AGU Fall meeting, December 5–9, 2011, San Francisco, CA.
53. Lukongo, O., & Ambinakudige, S. (2011). Quantifying and explaining land cover changes in the district of Goma, Democratic Republic of Congo. Paper presented at the SEDAAG Meeting, November 20–22, 2011, Savanna, GA.
54. Ambinakudige, S., & *K. Joshi. (2011). A Geodetic Method to Calculate Mass Balance of Nuptse & Its Surrounding Glaciers in Nepal. Paper presented at the SEDAAG Meeting, November 20–22, 2011, Savanna, GA.
55. Ambinakudige, S., Owen, A., & Rodgers, J. (2011). Teaching geospatial technologies on distance learning: challenges and experiences. Paper presented at the AAG meeting, April 12–15, 2011, Seattle, WA.
56. *Joshi, K., & Ambinakudige, S. (2011). Analysis of Mass Balance Change in the Imja Glacier of Nepal using Remote Sensing Techniques. Paper presented at ASPRS 2011, May 1–5, 2011, Madison, WI.
57. *Joshi, K., & Ambinakudige, S. (2011). Estimation of mass balance of Gangotri glacier using ALOS PRISM satellite image. Paper presented at the conference, February 17–18, 2011, Hattiesburg, MS.
58. *Robert Craft, & Ambinakudige, S. (2010). Remote Sensing Application to Study the Ice Cap of Mt Agri (Ararat) in Turkey. Paper presented at the SEDAAG Meeting 2010, Birmingham, AL.
59. Ambinakudige, S., Parisi, D., & Grice, S. (2010). Southern Migration Flow at the Turn of the 21st Century: Urban-Rural Differences. Paper presented at the SEDAAG Meeting 2010, Birmingham, AL.
60. Ambinakudige, S. (2010). Urbanization and Land Surface Temperature: A Spatial Analysis of Urban Heat Island Effect in Bangalore. Paper presented at the AAG meeting, April 13–16, 2010, Washington, D.C.
61. *Omweri, K., & Ambinakudige, S. (2010). Effects of hurricane Hugo on Vegetation conditions in South Carolina. Paper presented at the Mississippi academy of sciences, February 11–12, 2010, Hattiesburg, MS.
62. Ambinakudige, S., & *B. Everitt. (2009). A Markov Chain Model in GIS to Analyze Tornado Occurrences in Mississippi. Paper presented at the SEDAAG Meeting 2009, Knoxville, TN.

63. Ambinakudige, S., Parisi, D., Taqueno, M., & *B. Beaulieu. (2009). Inter-County Migration in the United States: Who's Gaining, Who's Losing? Paper presented at the 72nd Annual Meeting of the Rural Sociological Society, July 30–August 2, 2009, Madison, WI.
64. Ambinakudige, S. (2009). Estimation of Planimetric and Volumetric Changes in the Gangotri Glacier in the Himalayas using Multi-spectral Satellite Images. Paper presented at the AAG meeting, March
65. Ambinakudige, S., Jinmu, C., & *Khanal, S. (2009). A Comparative Analysis of CBERS and LANDSAT Data. Paper presented at ASPRS 2009, March 9-11, 2009, Baltimore, Maryland.
66. Ambinakudige, S., & *Khanal, S. (2009). Spatiotemporal Variations in Net Primary Productivity in the US: A Remote sensing and GIS Approach. Paper presented at the 2009 Arts & Sciences Research Showcase, October 21-22, Colvard Union Dawghouse, Mississippi State University.
67. Ambinakudige, S. (2008). Revisiting “the South” and Dixie”: A Spatial Pattern Analysis of Vernacular Regions using GIS. Poster Presentation, SEDAAG meeting at Greensborough, NC, November 22-25, 2008.
68. Ambinakudige, S., & *Khanal, S. (2008). Can CBERS Satellite Data Bridge the Possible Landsat Data Gap? Paper presented at the AAG meeting, April 14-20, 2008, Boston, MA.
69. Ambinakudige, S. (2008). An Extended Environmental Entitlement Framework to Study Political Ecology. Paper presented at the AAG meeting, April 14-20, 2008, Boston, MA.
70. Ambinakudige, S. (2007). A Storm in a Coffee Cup: Globalization Of Coffee Market and the Local Livelihoods in India. Paper presented at the Second Global Conference On Economic Geography, June 25-28, 2007, Beijing International Convention Center, Beijing, China.
71. Ambinakudige, S. (2007). Integrating Ethnography and Remote Sensing To Study Cultural Landscapes: A Case Study In The Western Ghats Of India. Paper presented at the AAG meeting, April 17-21, 2007, San Francisco, CA.
72. Ambinakudige, S. (2006). An Extended Environmental Entitlement Framework to Study Nature-Society Interactions. Paper presented at the AAG meeting, April 7-10, 2006, Chicago, IL.
73. Ambinakudige, S. (2005). Linking Global Market and Local Livelihoods: Political Economy of Coffee and Peasants in India. Paper presented at the AAG meeting, April 5-9, 2005, Denver, CO.
74. Ambinakudige, S. (2004). Political Ecology of Sacred Groves: Devarkaadus of Western Ghats of India. Paper presented at SEDAAG, November 21-22, 2004, Biloxi, MS.
75. Ambinakudige, S., & Klooster, D. (2002). Community Forest Management in India and Mexico: A Framework for Comparative Analysis. Paper presented at AAG, New Orleans, 2003.
76. Ambinakudige, S., & Lele, S. (1999). Factors Influencing Sustainable Forest Management under Regulated Private Property: The Case Study of the Haadis of Dakshina Kannada. Presented at the biannual conference of Indian Society of Ecological Economics, December 22-25, 1999, ISEC, Bangalore.
77. Ambinakudige, S. (S.A.S) & Lele, S. (1998). Land Cover Change in the Western Ghats: micro-scale analysis. Paper presented at KFD-ATREE-ISEC Interaction Workshop, October 12, 1998, ISEC, Bangalore.

Manuscripts peer-reviewed for major national and international journals & conferences

1. Remote Sensing Applications: Society and Environment
2. Nature – Climate Change
3. Fulbright-Nehru Fellowship (Geography) – (19 in 2022)
4. Geopolitics (1 in 2021)
5. Expert Reviewer for the First Order Draft of the IPCC Special Report on Climate Change and Land (SRCCL) -2018
6. Expert Reviewer for the Second Order Draft of the WGII contribution to the IPCC Sixth Assessment Report – Government and Expert review of the second order draft (2020-21)
7. Cities (1 in 2020)
8. International Migration (1 in 2020)
9. Physical geography (1 in 2020)
10. IEEE Access (1 in 2020)
11. Fudan Journal of Humanities and Societies (2 in 2020)
12. Environmental Conservation (1 in 2019)

13. Remote Sensing Applications: Society and Environment (1 in 2019)
14. Journal of Applied Remote Sensing (1 in 2019)
15. Photogrammetry and Remote Sensing Journal (PE&RS) (1 in 2018; 1 in 2019; 1 in 2020)
16. Advanced Remote Sensing (1 in 2019; 1 in 2020)
17. GIScience and Remote Sensing (2 in 2018)
18. Journal of Applied Remote Sensing (2 in 2017)
19. Asian Forum for Polar Sciences (AFoPS) (1 in 2016, 1 in 2017)
20. Mountain Research and Development (1 in 2017)
21. Cogent Geosciences (2 in 2016, 1 in 2018)
22. International Journal of Remote Sensing (1 in 2016)
23. Journal on Antarctic and Arctic Research (1 in 2016)
24. External Examiner of a PhD Dissertation from Birla Institute of Technology, India (1 in 2015)
25. IEEE Geoscience and Remote Sensing Society, the International Geoscience and Remote Sensing Symposium 2020 (IGARSS 2021). (5 manuscripts)
26. IEEE Geoscience and Remote Sensing Society, the International Geoscience and Remote Sensing Symposium 2020 (IGARSS 2020). (10 manuscripts)
27. IEEE Geoscience and Remote Sensing Society, the International Geoscience and Remote Sensing Symposium 2019 (IGARSS 2019). (10 manuscripts)
28. IEEE Geoscience and Remote Sensing Society, the International Geoscience and Remote Sensing Symposium 2018 (IGARSS 2018). (9 manuscripts)
29. IEEE Geoscience and Remote Sensing Society, the International Geoscience and Remote Sensing Symposium 2017 (IGARSS 2017). (10 manuscripts)
30. IEEE Geoscience and Remote Sensing Society, the International Geoscience and Remote Sensing Symposium 2016 (IGARSS 2016). (10 manuscripts)
31. IEEE Geoscience and Remote Sensing Society, the International Geoscience and Remote Sensing Symposium 2015 (IGARSS 2015). (10 manuscripts)
32. National Science Foundation- Proposal (1 in 2014; 1 in 2015, 1 in 2018)
33. Biodiversity and Conservation (1 in 2013)
34. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (1 in 2013)
35. Geomatics, Natural Hazards and Risk (1 in 2013)
36. Population Research and Policy Review (1 in 2013)
37. CRC Press – Book Proposal – Computational GIS (2013)
38. Journal of Political Ecology – (1 in 2013, 1 in 2020)
39. International Journal of Digital Earth (1 in 2012)
40. Optical Engineering – SPIE (1 in 2012)
41. Journal of Remote Sensing (1 in 2012, 1 in 2014)
42. Remote sensing: (1 in 2012; 1 in 2014; 1 in 2021)
43. The Social Science Journal (1 in 2011, 1 in 2012)
44. Natural Resources Forum, a United Nations Sustainable Development Journal (1 in 2011)
45. Earth Interactions (1 in 2011, 1 in 2012)
46. SEDAAG – 2010 Annual Meeting – Reviewed Several Manuscripts as a Member of the Programming Committee
47. Forest Ecology and Management (1 in 2010)
48. Canadian Journal of Remote Sensing (1 in 2010; 2 in 2016)
49. International Journal of Geographic Information Science (1 in 2009, 3 in 2010, 2 in 2011)
50. Southeastern Geographer (1 in 2010; 1 in 2014; 1 in 2015, 2 in 2016, 1 in 2018, 1 in 2020; 1 in 2021)

51. *Acta Sociologica* (1 in 2010)
52. *Journal of Geography and Geology* (1 in 2009, 3 in 2010, 3 in 2011, 3 in 2012, 2 in 2013, 1 in 2014, 1 in 2015; 2 in 2016; 1 in 2017)
53. *International Journal of Geographic Information Science* (1 in 2009)
54. *Journal of Geography and Regional Planning* (1 in 2009 & 1 in 2010)
55. SEDAAG – 2009 annual meeting – reviewed several manuscripts as a member of the Programming Committee
56. *Applied Geography* (1 in 2004, 1 in 2008, 1 in 2012)
57. *Singapore Journal of Tropical Geography* (1 in 2008)
58. Manuscript for proceedings of the first North American Landslide Conference (2006)

Research Grants

Funded

1. NOAA CAP \$125,980 (Pending)
2. NOAA CAP \$544,203 (Pending)
3. NSF SRN \$301,588 (Pending)
4. Ambinakudige, S. (2023). Selected to participate in the NSF-funded workshop series hosted by the Network for Transformative Research at Jackson State University. Funds: Cost of travel and lodging.
5. Ambinakudige, S. (2023-2024). World Food Prize Foundation Global Guides Cohort 5. The World Food Prize Global Guides Program. \$6000.
6. Ambinakudige, S., et al. (2023). An interdisciplinary program for research, education, and outreach on climate change and adaptive resilience in the Lower Mississippi Delta. Submitted to NSF EPSCoR Track II. \$4 million.
7. Ambinakudige, S. (2022). Funding to hire a postdoc fellow in Global Food Security Project, International Institute, MSU. \$50,000 + fringe.
8. Ambinakudige, S. (2021). Funding to hire a postdoc fellow in Global Food Security Project, International Institute, MSU. \$50,000 + fringe.
9. Ambinakudige, S. (2021). The 'Fear of Hunger' as a Migration Motivation: A Case Study Examining Central American Regional Migration. Global Discovery Seed Grant Program. \$5,000.
10. Ambinakudige, S. (2019). Increasing Diversity and inclusion in Geosciences. ORED, MSU. \$2000.
11. Ambinakudige, S., Dash, P., Shaha, D., & Hossain, A. (2019). Concept Note: Research on Resilient Rice-Fish Farming System for Small Holders in Bangladesh to Achieve Food & Nutrition Security and Equitable Livelihoods. Feed the Future Innovations Lab for Fish, Mississippi State University. (\$495,000). Concept Note has been kept under waiting list for invitation to submit full proposal.
12. Ambinakudige, S. (2018). Increasing Diversity and inclusion in Geosciences. Office of Diversity and Inclusion, MSU. \$300.
13. Dash, P., Ambinakudige, S., Posadas, B., & Howden, S. (2016). Regional Vulnerability Assessment in the Gulf of Mexico Coast to Ocean Acidification. Lol accepted. But full proposal was not funded.
14. Parajuli, P., Ambinakudige, S., Reddy, R., & Dash, P. (2016). Cochran Program for Mali, Senegal, Burkina Faso – Climate Smart Agriculture. USDA – 2016 Cochran Fellowship Program – Africa and Middle East Region. \$48,653.
15. Ambinakudige, S. (2015). Undergraduate Research Experience: A Study of Rivercane Ecosystem and Basketry in the Choctaw Indian Reservation using Geospatial and Geographic Approaches. Office of Research and Economic Development, Mississippi State University. \$2,000.
16. Ambinakudige, S. (PI), Dash, P., Reddy, R., & Parajuli, P. (2015). An international working group to study environmental and food security issues in wetland ecosystems in South Asia. International Service, Mississippi State University. \$2,500.
17. NSPARC (team member). (2014-2017). Mississippi Building Block Program Assessment, MBB. (~\$189,000).
18. Ambinakudige, S., & Rodgers, J. (2012). Schillig Special Teaching Projects Program Proposal: Using Global Positioning System to Increase Interest in Geospatial Sciences in Undergraduate Students. \$3,000.
19. Ambinakudige, S. (2008). Southeastern Division of American Association of Geographers, Early Faculty Small grant award - \$750.

20. Ambinakudige, S. (2005). University of West Georgia Student Research Assistant Program Grant, Georeferencing Historical Topographic, Soils and Geological Maps of Georgia, Parts of the U.S. And Parts Of The World 2005-2006, \$2,000.

Faculty Time Release by NSPARC for research

1. Ambinakudige, 2008 - 2017, Spatial Concentration of Poverty and Migration Pattern in the United States NSPARC, Mississippi State University. Total ~ \$500, 000

Grants Applied – (not funded)

1. Ambinakudige, S., Lemus, R., Luis Alonso Villalobos, & Pascal. (2021). A Study Abroad Program in Food Security – Collaborative Academic Activities between Mississippi State University and University of Costa Rica. 100,000 Strong in the Americas Program (\$53,167).
2. Ambinakudige, S. (2021). A&S Seed Grant. Diverse but Segregated Society? Racial Residential Segregation and Neighborhood Change in the United States. \$7,628 ().
3. Ambinakudige, S., et al. (2019). Retrieval of glacial topography from ICESat-2 laser altimetry in the Southern Andes, Western Canada, and the Western US, NASA Roses (\$368,368.00).
4. Mark, Elliot, Yuehan L., Ambinakudige, S., Dash, P., & Rakocinski, C. (2017). Raw wastewater discharges in Alabama and Mississippi: determining the scope and impacts, 2017 Gulf Star Funding Opportunity - Gulf of Mexico Alliance. \$99,995 (Sub contract from University of Alabama).
5. Ambinakudige, S., Dash, P., Mark, Elliot, & Yuehan L. (2017). Discharge of Untreated Wastewater: An Integrated Geospatial Study of Water Quality, Sanitation, Health, Environmental, Social, and Economic Problems in the Alabama Black Belt. National Science Foundation (Geography and Spatial Science Division).
6. Dash, P., Ambinakudige, S., Posadas, B., & Howden, S. (2016). Regional Vulnerability Assessment in the Gulf of Mexico Coast to Ocean Acidification. Submitted to NOAA. \$349,988.
7. Ambinakudige, S., & Dash, P. (2016). Determining ocean acidification rates and indices for vulnerability and variability to delineate critical regions and exploring vulnerability and adaptations of human dimensions to ocean acidification along the coasts of India, Bangladesh, and Sri Lanka. Asia-Pacific Network for Climate Change. \$45,870.
8. Sherman-Morris, K., Ambinakudige, S., et al. (2015). Disaster Risk Reduction, Response and Resilience (DR4) Working Group. Mississippi Research Consortium. \$8,000.
9. GEOS GP: IMPACT Geosciences Streamlined Pipeline and Research for Community Colleges (Geo-SPARCC). National Science Foundation. \$355,646.
10. Ambinakudige, S. (2015). Lol: Intergenerational mobility in the South and the Black Belt. Russell Sage Foundation. \$18,752.49.
11. Nagaraju, Ambinakudige, Reddy, Dash, & Parajuli. (2015). A multidisciplinary study on environmental quality of waterbodies in India and the US using geomorphology, hydrology and geospatial approaches. 21st century US-India initiative. \$231,887.
12. Clary, R., Ambinakudige, S., Sherman-Morris, K., Dash, P., Rodgers, J., & Schmitz D. (2015). GP: IMPACT Geosciences Streamlined Pipeline And Research for Community Colleges (Geo-SPARCC). NSF. \$349,021.
13. Reddy, R., Ambinakudige, S., Dash. P., & Parajuli, P. (2015). Sustainable Intensification Research for Efficient and Resilient Farming System for Small Holders in Bangladesh. Sustainable Intensification Innovation Lab (SIIL). USAID. Kansas State University. \$919,640.
14. Ambinakudige, S., & K. Posadas. (n.d.). Doctoral Dissertation Research: Resilience Clustering Patterns within the Mississippi Seafood Industry in the Wake of the 2010 Gulf of Mexico Oil Spill. NSF Doctoral dissertation research grant. (\$15,999).
15. Ambinakudige, S. (2015). Intergenerational mobility in the South and the Black Belt. Russell Sage Foundation. (\$18,754).
16. Ambinakudige, S. (2013). Mass balance of Pamir-Hindu Kush-Karakoram-Himalayan (PHKKH) glaciers and their impacts on global sea level rise. NASA, ROSES. \$371,397.
17. Ambinakudige, S. (2013). An Assessment of Energy, Environmental, and Economic Tradeoffs in Intermodal Transportation in Mississippi: A Geospatial Model. \$194,481.

18. Rodgers, J., S. & Ambinakudige. (2012). Mapping Epiphytic Invasive Plants: An Integration of Geospatial Technologies. Esri and PCI Natural Resources Imagery Grant. (~\$100,000).
19. Ambinakudige. (PI). (2011). Career: A Study of Glacial Change and People's Vulnerabilities in the Himalayas. Submitted to NSF, \$489,073.
20. Ambinakudige. (PI). (2011). Environmental and social vulnerabilities to sea-level-rise in Mississippi coast. Submitted to Northern Gulf Institute. \$9,990.
21. Ambinakudige. (PI). (2011). Assessment of the Himalayan glacier mass balance using remote sensing techniques. HFRF Research Jumpstart Program. \$4,889.
22. Ambinakudige. (PI). (2010). Estimation of Mass Balance of a Himalayan Glacier using ALOS PRISM and ASTER satellite Images. Submitted to Mississippi Space Grant Consortium. \$24,945.048.
23. Ambinakudige. (PI). (2010). Career: An Assessment of the Himalayan Glacial Change, and Human Vulnerabilities. Submitted to NSF, \$483,408.00.
24. Ambinakudige. (PI) & J. Choi, (Co-I). (2009). Anthropogenic Impacts on the Sundarbans Mangrove Ecosystem in India and Bangladesh. Submitted to NSF, \$115,240.00.
25. Ambinakudige. (PI) & J. Choi, (Co-I). (2007). Human Dimensions of Land Cover and Land Use Change in the Northeastern Himalayan Region of India, Submitted to NASA, \$249,964.37. Accepted in first step.
26. Ambinakudige. (PI). (2007). Exploring the Potentials of IRS and CBERS satellite data in lieu of LANDSAT data. Submitted to NASA. Not encouraged to submit step two proposal.
27. Ambinakudige. (PI). (2007). Exploring the potentials of IRS and CBERS satellite data in lieu of Landsat data, submitted to the RIP of Mississippi State University. \$9,934.56, .
28. Ambinakudige. (PI). (2006). Spatial Pattern Analysis of Pre and Post-Hurricane Katrina Vegetation Composition and Distribution in Mississippi, submitted to the RIP of Mississippi State University. \$9,953.90. .
- 29.

Current graduate students (PhD)

1. Adjoa Intsiful: Geographical analysis of racial segregation in school districts
2. Jephthah Marfo (Fall 2024)
3. Shahnawaz Hossain (Fall 2024)

Current graduate students (MS)

1. Clifford Boateng (Fall 2024)

Graduate Student Advisees (completed):

1. Ahmed, Z. (2024). Constrains and challenges for ensuring food security in the Northern and South-western region of Bangladesh: A policy, hazards, and climate change perspective. (PhD dissertation).
2. Abubakari, B. (2024). Analysis of glacier changes in the Western United States: Assessing area, volume, and albedo changes. (Master's thesis).
3. Crocket, D. (2023). Black farmers of Mississippi. (PhD dissertation).
4. Tiwari, S. (2020). Household food security and its determinants in the United States. (PhD dissertation).
5. Intsiful, A. (2020). Glacier change assessment of the Columbia Icefield in the Canadian Rocky Mountains, Canada (1985–2018). (Master's thesis).
6. Lotfata, A. (2019). Geospatial analyses of groundwater depletion and contamination: Multiscale - global, regional and local analyses. (PhD dissertation).
7. Inamdar, P. (2017). A reconciled estimate of the state of cryosphere components in the Southern Andes and California. (PhD dissertation).
8. Wei, C. (2014). Migration and natural disasters: Role of tornadoes and quality of life in internal migration patterns in tornado hot spots of the United States. (Master's thesis).
9. Tetteh, L. (2014). A multi-decadal remote sensing study on glacial change in the North Patagonia Ice field, Chile. (Master's thesis).
10. Joshi, K. (2012). Geodetic method to estimate mass balance of Himalayan glaciers: A case study of the Sagarmatha National Park, Nepal. (Master's thesis).

11. Lim, A. B. (2011). Non Thesis.
12. Khanal, S. (2009). Estimation of aboveground terrestrial net primary productivity and analysis of its spatial and temporal trends in the conterminous United States from 1997 to 2007 using NASA - CASA model. (Master's thesis).
13. Burt, J. (2008). An investigation of the relationship between Class I railroad employment and TEU traffic at the Ports of Long Beach and Los Angeles, California: 1997-2006. (Master's thesis).

Minor Professor

1. Sweta Tiwari. 2017. Hedging the Price Risk of Crop Revenue Insurance Through the Options Market. *Department of Agricultural Economics*. Mississippi State University.

Member of Graduate Committee

1. Omar Chowdary (PhD – E& AS)
2. Mohammed Nur (PhD – E& AS)
3. Shakiul Islam (PhD – E& AS)
4. Ria Mukherjee (MS)
5. Ubaida Abdulla (PhD – E& AS)
6. Asger Ali (Ph.D – E&AS) – completed
7. Youngwoo Cho (Ph.D – E&AS) - Completed
8. Sauree Silwal (Ph.D – E&AS) - Completed
9. Julia Domenech (Ph.D – E&AS) - Completed
10. Sankar Manalilkada (Ph.D – E&AS) - Completed
11. Sadia Shammi (Ph.D – E&AS)- Completed
12. Jannatul Ferdush (Ph.D – E&AS) - Completed
13. Xuan Zhou (Ph.D – Sociology) - Completed
14. Tang Li (Ph.D -E&AS) completed
15. Jason Lenz (Ph.D - E&AS) - Completed
16. Totsanat Rattankaew (Ph. D in Plant and Soil Science) - Completed
17. Gary Goggins (MS) - Completed
18. Randall McMillan (MS) Completed
19. Bradley Ulmer (MS)- Completed
20. Robert Touchstone (MS) - Completed
21. Dora Lambert (MS) - Completed
22. Davon Bise (MS) – Completed
23. Landon Sanders (MS) – Completed
24. Kelisha Stemps (MS)- Completed
25. Mohiba Shabbir (MS) (ABE) - Completed

Undergrad Student Researchers

1. Antonio Owen (2024)
2. Alex Davis (2019) – GIS and Music
3. Carie Phillips (2016) – The rivercane ecosystem in Mississippi Band of Choctaw Indian Reservation.
4. Adul Sharif (2014) – Lidar Data Application
5. Mahanaz Wahidi (2014) – Geospatial application in measuring air pollution
6. Robert Craft (2010) – A remote sensing study of Mt. Ararat – Turkey
7. Kristopher Smith (2010) – Correlogram to analyze the impacts of water bodies on urban temperature
8. Keith Owmeri (2009 -2010) – NDVI and Tree ring analysis

9. Brian Everitt (2009) – A Markov Chain Model in GIS to Analyze Tornado Occurrences in Mississippi

Honors and Awards

1. College of Arts and Sciences – MSU – Research Award 2024
2. Selected for the 2017-18 Dean Wallace Colvard Faculty Leadership Program- Sponsored by the university's offices of Research and Economic Development and of the Provost and Executive Vice President.
3. Early Faculty Grant Award – 2008: By the Southeastern Division of Association of American Geographers
4. Certified GIS Professional: By the GIS Certification Institute
5. Morton Winsberg Outstanding Student Award: By the Department of Geography Florida State University – 2004-2005

Teaching

Courses Taught at Mississippi State University

1. GR4383/6383 Aerial Drone Applications in Geosciences
2. GR8563 – GIS Research Applications
3. GR4353/6353 Geodatabase Design (Distance Learning)
4. GR 3113 Conservation of Natural Resources
5. GR 4990/6990 Intermediate GIS
6. GR 3303 and GR 8990 - Survey of Geospatial Technologies
7. GR 4303/6303 Principles of GIS (On campus)
8. GR 4303/6303 Principles of GIS (Distance Learning)
9. GR 4990/6990 Special topic - Geospatial Technologies (Distance Learning)
10. GR 3311 Geospatial Applications
11. GR 8313 Advanced Cultural Geography
12. GR 8990 Research Readings and Techniques
13. GR 4233/6233 Geography of Asia
14. GR 4253/6253 Geography of Africa
15. GR4990/6990 Geography of Islamic World
16. GR 2013 Cultural Geography

Courses Taught at University of West Georgia, Carrollton, GA

1. GEOG- 4553 Geographic Information Systems
2. GEOG- 4082 Environmental Conflicts and Economic Development
3. GEOG-1013 World Geography
4. GEOG-3085 Geography of Asia
5. GEOG-3083 Research Methods

Synergistic Activities

Service to the University/ College

1. Graduate Council (2022-2024).
2. Member of Strategic Planning Committee of the Department of Geosciences.
3. Chair of the Department P&T Committee (2021).
4. Member of A&S P&T Committee (2021-2024).
5. Member of Human/GIS Geography Faculty Search Committee (2021-2022).
6. Chair of the Black Geography Faculty Search Committee, Mississippi State University (2020-2021).
7. Member of the GIS Clinical Faculty Search Committee, Mississippi State University (2020-2021).
8. Member of the Geography and Geology Instructor Position Search Committee, Mississippi State University (2020).
9. Senator, The Robert Holland Faculty Senate, Mississippi State University.
10. Member of the MSU Community Engagement Committee (2018-2022).

11. Member of the Department Head Search Committee, Department of Geosciences.
12. Faculty Advisor for the MSU Chapter of ASPRS (Current).
13. Member of the Department Course Curriculum Committee (Current).
14. Member of the University Course Curriculum Committee (2015-2018).
15. Chair of the Department of Geosciences Governance Document Sub-Committee (2015).
16. Member of the Department Head Search Committee, Department of Geosciences, MSU (2013-2014).
17. Chair of the GIS Faculty Search Committee, Mississippi State University (2012-2013).
18. Member of the GIS Faculty Search Committee, Mississippi State University (2011).
19. Member of the Faculty Senate, College of Arts and Sciences, Mississippi State University.
20. Geosciences Department's Library Representative, Mississippi State University (Current).
21. Member of the Curriculum Committee, College of Arts and Sciences.
22. Member of the Foundation Committee, Department of Geosciences.
23. Member of the scientific advisory panel at the National Strategic Planning Analysis & Research Center on "A New Framework for Energy Policy – Providing Energy Security, Environmental Quality, and Economic Viability."
24. Member of the IT Project Manager Search Committee, National Strategic Planning Analysis & Research Center.
25. Member of the Research Associate Search Committee, National Strategic Planning Analysis & Research Center.

Service to the Discipline

- Editor of Southeastern Geographer Journal.
- Effectiveness and Assessment Committee Chair, Mississippi Academy of Sciences.
- Mississippi Academy of Science - Summer Science & Engineering Symposium, Local Arrangement Committee Chair (2023).
- Member, Mississippi Academy of Science.
- P&T Reviewer for University of Mississippi (2022).
- P&T Reviewer for Farmingdale State College (2022).
- Member of Editorial Board, Southeastern Geographer.
- Treasurer, ASPRS Mid-South Region (Current).
- Guest Editor, Special Issue – Remote Sensing of Natural Disasters, Remote Sensing Journal (2021-2022).
- Secretary of SEDAAG (2019-2020).
- Mississippi State Representative, ASPRS Mid-South Region.
- Expert Reviewer for the First Order Draft of the IPCC Special Report on Climate Change and Land (SRCCL) (2018).
- South Asia Director for the Asian Geography Specialty Group of AAG.
- Local Organizing Committee Chairman, SEDAAG Meeting 2017, Starkville, MS.
- Associate Editor of the Cogent Geoscience Journal.
- Judge for the 2015 Sigma Xi Student Research Showcase.
- Mississippi State Representative to SEDAAG (2014-2016).
- External Examiner of a PhD Dissertation from Mangalore University, India.
- External Examiner of a PhD Dissertation from Birla Institute of Technology, India.
- External Examiner of a PhD Dissertation from University of Tasmania, Australia.
- Member of Research Grant Committee, Association of American Geographers (2011, 2014-2017).
- Member of Program Committee of 2009 and 2010 SEDAAG meetings.
- Association of American Geographers (AAG): Student Awards and Scholarships Committee Member (2009-2011). Duties involved selecting candidates for awarding four major student awards initiated by the AAG: IGIF Student Paper Awards, IGIF Graduate Research Awards, IGIF Travel Awards, and Hess Scholarship Award.
- Chaired two sessions on "Cryosphere: Global Glacier Change Studies," New York (Feb 24-28, 2012).
- Chaired a session on "Global Land Change Detection Using Remote Sensing" at the annual meeting of the Association of American Geographers, San Francisco (April 17-21, 2007).
- Member of the Editorial Board of the Journal of Geography and Geology.
- Reviewer for about 10 academic journals in the discipline.

Professional Membership

- Association of American Geographers (Current)
- Sigma Xi (Current)
- Life Member: Mississippi Academy of Science (Current)
- American Society for Photogrammetry and Remote Sensing (Current)
- Southeastern Division of Association of American Geographers (Current)
- American Geophysical Union (Current)
- American Geographical Society
- Gamma Theta Upsilon (Current)
- Institution of Agricultural Technologists, Bangalore, India (Current)
- European Population Association
- Population Association of America