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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
  - Research Fellow: National Strategic Planning Analysis & Research Center (NSPARC), MSU
  - Fellow: Geosystems Research Institute at Mississippi State University, MSU
- 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, Aug 2005 – May 2006
- GIS Analyst: Florida Resources and Environmental Analysis Center (FREAC), Florida State University, August 2002 to August 2005
- GIS Analyst: Florida Department of Environmental Protection (FDEP), Tallahassee. Summer 2002
- Teaching Assistant : Department of Geography, Florida State University, Spring 2002
- Research Assistant : Department of Geography, Florida State University, Fall 2001
- Inspector: IMO Control Pvt. Ltd. Bangalore, India - An Organic Farming Certification Company – May 2001 to July 2001
- Research Assistant: Institute for Social and Economic Change, Bangalore, India - Project on Linking Ecology, Economics and Institutions of Forest Management in the Western Ghats of Karnataka, India - Aug 1995 to April 2001

## Publications

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

\*Graduate Student

1. **Ambinakudige, S.**, Inamdar\*, P., and Lotfata\*, A. 2018. A Spectral Analysis of Snow in Mt. Rainier. *Journal of geography and geology*. 10(3); p20-25.
2. Ambinakudige, S. Inamdar, P, and Dixon, L. *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>
3. **Ambinakudige, S.**, D. Parisi, G. Cappello, and \*A. Lotfata. 2017. A. Diversity or Segregation? A multi-decadal analysis of demographics of Atlanta neighborhoods. *Spatial Demography*. Pp1-22. doi:10.1007/s40980-017-0034-z.
4. **Ambinakudige, Shrinidhi**. "Geography of Glaciers." 2017. In *Oxford Bibliographies in Geography*. Ed. Barney Warf. New York: Oxford University Press.

5. \*Inamdhar, P and S. **Ambinakudige**. 2016. Spatial patterns of glacial changes in Southern America. *PE& RS*. 82(10), pp 811-818.
6. \*Inamdhar, P and S. **Ambinakudige**. 2016. Recent glacier recession in California. Proceedings of the Imaging & Geospatial Technology Forum (IGTF), 2016. Fort Worth, Texas, April 11 – 15, 2016.
7. **Ambinakudige**, S., and G. Cappello. 2016. Brexit: Potential Migration Wave and Population Gains and Losses in the European Union and the United Kingdom. *Population Review*, 55(2). Pp75-80.
8. Lichter, D., D. Parisi, and S. **Ambinakudige**. 2016. Residential segregation in Europe and the United States: minority population growth and spatial integration. European Population Conference, Mainz, Germany. Aug 31<sup>st</sup> – Sept 3<sup>rd</sup>, 2016. Conference Proceedings.
9. **Ambinakudige**, S. and D. Parisi. 2015. A spatiotemporal analysis of inter-county migration patterns in the United States. *Applied Spatial Analysis and Policy*. 10.1007/s12061-015-9171-1.
10. \*Dixon, L. and S. **Ambinakudige**. 2015. Remote Sensing Study of Glacial Change in the Northern Patagonian Icefield. *Advances in Remote Sensing*, 4, 270-279.
11. **Ambinakudige**, S. and \*K. Joshi. 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.
12. Gorai, Amit, Francis Tuluri, Paul Tchounwou, **Shrinidhi Ambinakudige**. 2014. Influence of local meteorology and no<sub>2</sub> conditions on ground level ozone concentration in eastern part of Texas. *Air Quality, Atmosphere and Health*. Pp 1-6.
13. **Ambinakudige**, S. 2014. "Glaciers." In Oxford Bibliographies in Geography. Ed. Barney Warf. New York: Oxford University Press.
14. \*Khanal, S., S. **Ambinakudige**, J. Rodgers. 2013. A GIS analysis of the spatial relationship between evapotranspiration and pan evaporation in the United States. *Water International*, 38 (3). 353-360. DOI:10.1080/02508060.2013.769075.
15. **Ambinakudige**, S., and D. Klooster. 2013. Logging Rights. In *Native Peoples of The World: An Encyclopedia*, Steven L. Danver, editor. Armonk, NY: M.E. Sharpe.
16. Rodgers, J.C. III and S. **Ambinakudige**. 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.
17. **Ambinakudige**, S. and \*K. Joshi, 2012. *Remote Sensing of Cryosphere, Remote Sensing - Applications*, Dr. Boris Escalante (Ed.), ISBN: 978-953-51-0651-7, InTech.
18. **Ambinakudige**, S., D. Parisi and S. Grice. 2012. An Analysis of Differential Migration Patterns in the Black Belt and the New South. *Southeastern Geographer*, 52 (2).
19. Rodgers, J. C. III, A. Owen-Nagel, and S. **Ambinakudige**., 2012. A Geospatial Online Instruction Model. *Review of International Geographical Education Online*, 2, 7–24.
20. **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.
21. **Ambinakudige**, S. 2011. Book review: in *Photogrammetric Engineering & Remote Sensing*, 77(6). Geographic Information Science. Author: Narayan Panigrahi. Universities Press (India) Private Ltd., Hyderabad. 2009. xii and 276 pp., diagrams, maps, images, appendix, index. Hardcover. \$89.95. ISBN 13-978-1-4398-1004-0.
22. **Ambinakudige**, S., J. Choi, and \*S. Khanal. 2011. A comparative analysis of CBERS-2 CCD and Landsat-TM satellite images in vegetation mapping. *Revista Brasileira de Cartografia*. 63, 01. Pp 115-122.
23. **Ambinakudige**, S. 2011. National Parks, coffee and NTFPs: the livelihood capabilities of Adivasis in Kodagu, India. *Journal of Political Ecology*. 18, Pp 1-10.
24. **Ambinakudige**, S., and D. Parisi, 2010. Internal migration effectiveness and income effectiveness in the most populous cities in the United States. *Population Review*. 49(2).
25. **Ambinakudige**, S., and \*S. Khanal, 2010. Assessment of Impacts of Hurricane Katrina on NPP Production in Mississippi. *Earth Interactions* 14, 1-12.
26. **Ambinakudige** S. 2010. A Study of the Gangotri glacier retreat in the Himalayas using Landsat Satellite Images. *International Journal of Geoinformatics*. 6(3), Pp 7-12.
27. **Ambinakudige**, S. 2010. "Rice." *Green Food: An A-to-Z Guide*. SAGE Publications. ISBN: 9781412971874.
28. **Ambinakudige**, S. 2010. "Cash Crop." *Green Food: An A-to-Z Guide*. SAGE Publications. ISBN: 9781412971874.

29. **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.
30. **Ambinakudige, S.** and B. N. Sathish. 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.
31. **Ambinakudige, S.**, J. Choi, and \*S. Khanal. 2009. A comparative Analysis of CBERS and LANDSAT Data. *ASPRS 2009, Proceedings*, Baltimore, Maryland, March 9-11, 2009.
32. **Ambinakudige, S.** 2009. "The Global Coffee Crisis and Indian Farmers: The Livelihood Vulnerabilities of Smallholders". *Canadian Journal of Development Studies*. 28, 3-4.
33. **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.
34. **Ambinakudige, S.** 2009. Revisiting "the South" and "Dixie": Delineating Vernacular Regions using GIS, *Southeastern Geographer*, 49, 3.
35. **Ambinakudige, S.** 2008. Book Review in *International Journal of Geographical Information Systems*. "GIS Fundamentals: A First Text on Geographic Information Systems by PAUL BOLSTAD, second edition, Elder Press, Minneapolis-St. Paul, 2005. 539 pp, tables, figures, maps, and index, \$42, soft cover (ISBN 0-9717647-1-9)." 22 (9), 1035-1036.
36. Klooster, D. and **S. Ambinakudige**. 2007. *La importancia mundial del manejo forestal comunitario en México*. Capítulo 13 in Los bosques comunitarios de México. Manejo sustentable de paisajes forestales Edited by David Barton Bray, Deborah Barry, and Leticia Merino-Pérez. ISBN: 978-968-817-841-6.
37. Klooster, D. and **S. Ambinakudige**. 2005. *The Global Significance of Community Forestry in Mexico*. Chapter 13 in The Community Forests of Mexico Managing for Sustainable Landscapes Edited by David Barton Bray, Leticia Merino-Pérez, and Deborah Barry. ISBN 0-292-70637-5, University of Texas Press.
38. Klooster, D. and **S. Ambinakudige**. 2002. Paul Kerkhof. Local Forest Management in the Sahel: Towards a new social contract. SOS Sahel International, UK – London. 2000. Cultural and Political Ecology 40.
39. Shrinidhi .A.S. (**S. Ambinakudige**) and Lele. S. 2001. *Forest Tenure Regimes in Karnataka Western Ghats: A compendium*. ISEC, Institute for Social and Economic Change, Bangalore, India.
40. Parikh, A., S. Lele, and **A.S. Srinidhi (S Ambinakudige)** and et.al. 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 Feb 1999, VIKSAT, SPWD, AKF (I), Gujarat, India
41. **Ambinakudige, S** (Shrinidhi. A. S) & S. Lele. 1998. *Indian Forest Policy, Forest Law and Forest Rights Settlement: A serious Match*. International Workshop on Capacity building in Environmental Governance for Sustainable Development at Indira Gandhi Institute for Development research, Mumbai on Dec 8-10, 1998.

#### Technical Reports:

1. Adam-Price, C., **S. Ambinakudige**, and G. Cappello. 2016. Final Report: Mississippi Building Blocks, 7<sup>th</sup> year project 2015/2016. NSPARC, Mississippi State University.
2. Adam-Price, C., **S. Ambinakudige**, and G. Cappello. 2015. Final Report: Mississippi Building Blocks, 6<sup>th</sup> year project 2014/2015. NSPARC, Mississippi State University.
3. Adam-Price, C., **S. Ambinakudige**, and G. Cappello. 2014. Final Report: Mississippi Building Blocks, 5<sup>th</sup> year project 2013/2014. NSPARC, Mississippi State University.

#### Manuscripts in review

1. \*Lotfata, A. and **S. Ambinakudige**. Natural Disaster and Vulnerability: An Analysis of 2016 Flooding in Louisiana.

#### Book Proposals in review

1. A book proposal on Applied Geographic Information System has been submitted to the CRC press.
2. A book proposal on Application of GPS has been submitted to the CRC press.

#### 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.** 2017. Geospatial Analysis of Cryosphere and Water. Department of Agricultural Bio Engineering, Mississippi State University. 03/07/2017.
2. **Ambinakudige, S.** 2017. Food Cultures of India. Department of Food Science, Mississippi State University. 03/22/2017.
3. **Ambinakudige, S.** 2016. Remote Sensing of Cryosphere. Department of Plant and Soil Science, Mississippi State University. 9/14/2016
4. **Ambinakudige, S.** 2016. Food Cultures of India. Department of Food Science, Mississippi State University. 04/08/2016.
5. **Ambinakudige, S.** 2015. Geospatial Analysis of Homelessness. Panel Discussion panel discussion of geospatial techniques relevant to Same Kind of Different as Me, the 2015 Maroon Edition book. Mississippi State University. 10/08/2015.
6. **Ambinakudige, S.** 2014, Geospatial Technologies to Study Human Dimensions of Global Change. ASPRS Student chapter, Mississippi State University. 9/29/2014.
7. **Ambinakudige, S.** 2014, Remote Sensing Techniques to Study Global change and the Earth system. Department of Plant and Soil Science, Mississippi State University. 10/08/2014.
8. **Ambinakudige, S.** 2013, India. Professional Development Lectures: College of Veterinary Science, Mississippi State University. 7/30/2013.
9. **Ambinakudige, S.** 2013, A world of changing glaciers. In Teachers Workshop at Mississippi State University. 6/18/2013.
10. **Ambinakudige, S.** 2012, Political Ecology. CreekRun Geology Symposium- 2012 – Biloxi, MS

#### Conference/ Seminar Presentations

1. \*Intsiful, Adjoa and Shrinidhi **Ambinakudige.** 2019. Change Assessment of the Columbia Icefield, Canadian Rocky Mountains. AAG Annual Meeting, Washington DC. April 3-7, 2019.
2. \*Lotfata, Aynaz and Shrinidhi **Ambinakudige.** 2019. Groundwater Vulnerability Assessment Using GALDIT\_SH Model. AAG Annual Meeting, Washington DC. April 3-7, 2019.
3. Sweta Tiwari and Shrinidhi **Ambinakudige.** 2019. *Impact of Changing Environment on Migration Decision: A Brief Overview*. Population Association of America, 2019 Annual Meeting, Austin Texas. April 11-13, 2019.
4. Sweta Tiwari and Shrinidhi **Ambinakudige.** 2018. MLK Streets as an African-American Space and/or a Deprived Space: An Empirical Analysis. SEDAAG, 2018 Annual Meeting, Johnson City, TN. Nov18-19, 2019.
5. **Ambinakudige, S.** Inamdar, P, and Dixon, L. *Remote sensing of cryosphere: estimation of glacier mass balance in the Andes and in the US*. COSPAR 2018. Pasadena, CA July 14-22, 2018.
6. \*Lotfata, A. and S. **Ambinakudige.** 2017. Analysis of Groundwater Anomalies Estimated by GRACE and GLDAS Satellite-based Hydrological Model in the Gulf of Mexico. GSA meeting. Seattle, WA.
7. \*Lotfata, A. and S. **Ambinakudige.** 2017. Analysis of Groundwater Anomalies Estimated by GRACE and GLDAS Satellite-based Hydrological Model in the Gulf of Mexico 2017 AGU Fall Meeting, New Orleans, Louisiana, USA Nov 11-15, 2017.
8. \*Lotfata, A and S. **Ambinakudige,** 2017. Groundwater Depletion and Drought Frequencies: A Global Analysis. SEDAAG Meeting, Starkville, MS, Nov 19-20, 2017.
9. Dash, P and S. **Ambinakudige.** Remote Sensing of Physical Environment using Unmanned Aerial Systems. Special Session in the SEDAAG Meeting, Starkville, MS, Nov 19-20, 2017.

10. Sergi, K., G. Capello, C. Pittman, S. **Ambinakudige**, May, A., and Adams-Price. 2017. The Relationship between Fidelity of Implementation and Classroom Quality in Early Childhood Education. Association for Education Finance and Policy, 42nd Annual Conference, Washington D.C., March 16-18, 2017
11. \*Lotfata, A. and **Ambinakudige**, S. 2016. Natural disaster and vulnerability: An analysis of 2006 flooding in Louisiana. SEDAAG Annual Meeting -2016. Columbia, SC, Nov 20-21.
12. \*Inamdhara, P and **Ambinakudige**, S. 2016. Spatiotemporal Patterns of Ice Mass Variations and the Local Climatic Factors in the Riparian Zone of Central Valley, California, AGU Meeting 2016. San Francisco, CA, Dec 12 – 16, 2016.
13. **Ambinakudige**, S. 2016. *Glacial Studies, Climate Change and Biodiversity*. International Conference on Global biodiversity, Climate Change and Sustainable Development. (ICBCS-2016). 15 – 18 October, 2016, RGU, Rono Hills, Arunachal Pradesh, India.
14. Panel Discussion: Climate Change Impacts: adaption, mitigations and risk reduction – vision and action plan for the future. International Conference on Global biodiversity, Climate Change and Sustainable Development. (ICBCS-2016). 15 – 18 October, 2016, RGU, Rono Hills, Arunachal Pradesh, India.
15. Panel Discussion: Think Global and Act Local – The Himalayan environment and livelihood. . International Conference on Global biodiversity, Climate Change and Sustainable Development. (ICBCS-2016). 15 – 18 October, 2016, RGU, Rono Hills, Arunachal Pradesh, India.
16. Lichter, D.T., Parisi, Domenico, **Ambinakudige**, S. 2016. *Residential Segregation in Europe and the United States: minority population growth and spatial integration*. European Population Conference, 2016, Mainz, Germany. Aug 31 – Sept 4, 2016.
17. \*Inamdhara, P and **Ambinakudige**, S. 2016. Recent glacier recession in California. Imaging & Geospatial Technology Forum (IGTF), 2016. Fort Worth, Texas, April 11 – 15, 2016.
18. **Ambinakudige**, S., \*Carrie Phillips, and \*Ayanaz Lotfata. 2016. *Environmental and food security: Rivercane ecosystem and basketry in Choctaw Indian Community in Mississippi*. AAG meeting at San Francisco. March 29-April 2, 2016.
19. **Ambinakudige**, S., D. Parisi, G. C. Cappello. 2016. *Race, Internal Migration and Urban Expansion of Atlanta*. Annual Meeting of Population Association of America, at Marriott Wardman Park, Washington, D.C. March 31 – April 2.
20. **Ambinakudige**, S., D. Parisi, G. C. Cappello. 2015. *Geography of Atlanta through the lenses of Race, Migration and Urban Expansion*. SEDAAG Meeting. 2015. Pensacola, FL. Nov 22-24.
21. **Ambinakudige**, S. 2015. *An analysis of mass balance of glaciers of conterminous United States*. AAG meeting at Chicago. April 8-12, 2015.
22. \*Inamdhara, P. and S. Ambinakudige, 2014. *Spatial analysis of glacial wastage trends in the Andean cryosphere using ICESAT and STRM data*. SEDAAG Meeting. 2014. Athens, GA, Nov 22-24.
23. \*Chambers, M. C., \*A. Sherif, and S. Ambinakudige, 2014. *Assessing the Accuracy of LiDAR Data in Relation to Building Height*. SEDAAG Meeting. 2014. Athens, GA, Nov 22-24.
24. \*Inamdhara, P and S. Ambinakudige. 2014. *Spatial patterns of glacial changes in Southern America*. AAG meeting at Tampa, April 8-12, 2014.
25. \*Tetteh, L, and S. Ambinakudige. 2014. *A multi-decadal remote sensing study on glacial change in the North Patagonia*. AAG meeting at Tampa, April 8-12, 2014.
26. **Ambinakudige**, S. and \*L. Tetteh. 2013. *An Analysis of mass balance of Chilean Glaciers*. AGU Fall meeting. San Francisco, CA, Dec 5-9, 2013.
27. **Ambinakudige**, S., and \*K. Joshi. 2013. *An Analysis of Fedchenko and surrounding glaciers mass balance 2004-2009, Tajikistan*. Davos Atmosphere and Cryosphere Assembly. Davos, Switzerland. July 8-12, 2013.
28. **Ambinakudige**, S., and \*K. Joshi. 2013. *Remote Sensing of Cryosphere: Estimation of Mass Balance Change in Fedchenko Glacier, Tajikistan*. AAG meeting at Los Angeles, April 9-12, 2013.
29. \*Joshi, K., S. Ambinakudige and \*L. Tetteh. 2012. *Mass Balance measurement of Fedchenko Glacier 2004-2009, Tajikistan*. SEDAAG Meeting, Asheville, NC, Nov 18-20, 2012.
30. **Ambinakudige**, S., and \*K. Joshi., 2012. *Remote Sensing of Cryosphere: Estimation of Mass Balance Change in Himalayan Glaciers*, Committee on Space Research (COSPAR) Scientific Assembly Mysore, India, July 14-22, 2012
31. **Ambinakudige**, S., and \*K. Joshi. 2012. *Mass Balance Change: An Indication of Pressure on Himalayan Glaciers*, Planate under pressure conference, London, March 26-29, 2012.
32. **Ambinakudige**, S., and \*K. Joshi. 2012. *Mass balance Measurement of Himalayan Glaciers: A Remote Sensing Approach*, AAG meeting, New York, Feb 24 – 28, 2012.

33. **Ambinakudige, S.** 2011. *Remote Sensing Estimates of Glacier Mass Balance Changes in the Himalayas of Nepal*. AGU Fall meeting, San Francisco, CA, Dec 5-9, 2011.
34. Lukongo, O and S. Ambinakudige. 2011. *Quantifying and explaining land cover changes in the district of Goma, Democratic Republic of Congo*, SEDAAG Meeting, Savanna, GA. Nov 20 – 22, 2011.
35. **Ambinakudige, S.**, and \*K. Joshi, 2011. *A Geodetic Method to Calculate Mass Balance of Nuptse & Its Surrounding Glaciers in Nepal*, SEDAAG Meeting, Savanna, GA. Nov 20 – 22, 2011.
36. S. Ambinakudige, A. Owen, and J. Rodgers. 2011. *Teaching geospatial technologies on distance learning: challenges and experiences*. AAG meeting at Seattle April 12-15, 2011.
37. \*Joshi, K and S. Ambinakudige. 2011. *Analysis of Mass Balance Change in the Imja Glacier of Nepal using Remote Sensing Techniques*. ASPRS 2011, Madison, Wisconsin. May 1-5, 2011.
38. \*Joshi, K. and S. Ambinakudige. 2011. *Estimation of mass balance of Gangotri glacier using ALOS PRISM satellite image*. Feb. 17-18, 2011. Hattiesburg, MS.
39. \*Robert Craft and S. Ambinakudige. 2010. *Remote Sensing Application to Study the Ice Cap of Mt Agri (Ararat) in Turkey*. SEDAAG – Meeting 2010, Birmingham, AL.
40. **Ambinakudige, S.**, D. Parisi, and S. Grice. 2010. *Southern Migration Flow at the Turn of the 21st Century: Urban-Rural Differences*, SEDAAG – Meeting 2010, Birmingham, AL.
41. **Ambinakudige, S.** 2010. *Urbanization and Land Surface Temperature: A Spatial Analysis of Urban Heat Island Effect in Bangalore*. AAG meeting at Washington D.C. April 13-16, 2010.
42. \*Omweri, K., and S. Ambinakudige. 2010. *Effects of hurricane Hugo on Vegetation conditions in South Carolina*. Mississippi academy of sciences, seventy-fourth annual meeting. Feb. 11-12, 2010. Hattiesburg, MS.
43. **Ambinakudige, S.** and \*B. Everitt. 2009. *A Markov Chain Model in GIS to Analyze Tornado Occurrences in Mississippi*, SEDAAG – Meeting 2009, Knoxville, TN.
44. **Ambinakudige, S.**, D. Parisi, M. Taqueno, and \*B. Beaulieu. 2009. *Inter-County Migration in the United States: Who's Gaining, Who's Losing?* 72<sup>nd</sup> Annual Meeting of the Rural Sociological Society, July 30- August 2, 2009, Madison, Wisconsin.
45. **Ambinakudige, S.** 2009. *Estimation of Planimetric and Volumetric Changes in the Gangotri Glacier in the Himalayas using Multi-spectral Satellite Images*, AAG meeting, March 22-27, 2009. Las Vegas, NV.
46. **Ambinakudige, S.**, C. Jinmu, and \*S. Khanal. 2009. *A Comparative Analysis of CBERS and LANDSAT Data*. ASPRS 2009, March 9-11, 2009. Baltimore, Maryland.
47. **Ambinakudige, S.**, and \*S. Khanal. 2009. *Spatiotemporal Variations in Net Primary Productivity in the US: A Remote sensing and GIS Approach*, 2009 Arts & Sciences Research Showcase, October 21 - 22, Colvard Union Dawghouse, Mississippi State University.
48. **Ambinakudige, S.** 2008. *Revisiting "the South" and Dixie": A Spatial Pattern Analysis of Vernacular Regions using GIS*. Poster Presentation, SEDAAG meeting at Greensborough, NC, Nov 22-25, 2008.
49. **Ambinakudige, S.**, and \*S. Khanal. 2008. *Can CBERS Satellite Data Bridge the Possible Landsat Data Gap?* AAG meeting at Boston, MA, April 14-20, 2008.
50. **Ambinakudige, S.** 2008. *An Extended Environmental Entitlement Framework to Study Political Ecology*. AAG meeting at Boston, MA, April 14-20, 2008.
51. **Ambinakudige, S.** 2007. *A Storm in a Coffee Cup: Globalization Of Coffee Market and the Local Livelihoods in India*, Second Global Conference On Economic Geography 25-28 June 2007, Beijing International Convention Center, Beijing, China.
52. **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 at San Francisco, April 17-21, 2007.
53. **Ambinakudige, S.** 2006. *An Extended Environmental Entitlement Framework to Study Nature-Society Interactions*. Paper presented at the AAG meeting at Chicago, April 7-10, 2006.
54. **Ambinakudige, S.** 2005. *Linking Global Market and Local Livelihoods: Political Economy of Coffee and Peasants in India*. Paper presented at the AAG meeting at Denver, April 5-9 2005
55. **Ambinakudige, S.** 2004. *Political Ecology of Sacred Groves: Devarkaadus of Western Ghats of India*, Paper presented at SEDAAG on 21-22 November 2004, Biloxi, Mississippi.
56. **Ambinakudige, S.** and D. Klooster. 2002. *Community Forest Management in India and Mexico: A Framework for Comparative Analysis*, Paper presented at AAG, New Orleans 2003.

57. **Ambinakudige, S.** and S. Lele. 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, held at ISEC, Bangalore, 22-25 Dec 1999.
58. **Ambinakudige, S. (S.A.S)** and S. Lele. 1998. *Land Cover Change in the Western Ghats: micro-scale analysis*. Paper presented at KFD-ATREE-ISEC Interaction Workshop, 12 October 1998, at ISEC, Bangalore.

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

1. Expert Reviewer for the First Order Draft of the IPCC Special Report on Climate Change and Land (SRCCCL) - 2018
2. Photogrammetry and Remote Sensing Journal (PE&RS) (1 in 2018)
3. GIScience and Remote Sensing (2 in 2018)
4. Journal of Applied Remote Sensing (2 in 2017)
5. Asian Forum for Polar Sciences (AFoPS) (1 in 2016, 1 in 2017)
6. Mountain Research and Development (1 in 2017)
7. Cogent Geosciences ( 2 in 2016, 1 in 2018)
8. International Journal of Remote Sensing (1 in 2016)
9. Journal on Antarctic and Arctic Research (1 in 2016)
10. External Examiner of a PhD Dissertation from Birla Institute of Technology, India (1 in 2015)
11. IEEE Geoscience and Remote Sensing Society, the International Geoscience and Remote Sensing Symposium 2017 (IGARSS 2018). (9 manuscripts)
12. IEEE Geoscience and Remote Sensing Society, the International Geoscience and Remote Sensing Symposium 2017 (IGARSS 2017). (10 manuscripts)
13. IEEE Geoscience and Remote Sensing Society, the International Geoscience and Remote Sensing Symposium 2016 (IGARSS 2016). (10 manuscripts)
14. IEEE Geoscience and Remote Sensing Society, the International Geoscience and Remote Sensing Symposium 2015 (IGARSS 2015). (10 manuscripts)
15. National Science Foundation- Proposal (1 in 2014; 1 in 2015, 1 in 2018)
16. Biodiversity and Conservation (1 in 2013)
17. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (1 in 2013)
18. Geomatics, Natural Hazards and Risk (1 in 2013)
19. Population Research and Policy Review (1 in 2013)
20. CRC Press – Book Proposal – Computational GIS (2013)
21. Journal of Political Ecology – (1 in 2013)
22. International Journal of Digital Earth (1 in 2012)
23. Optical Engineering – SPIE (1 in 2012)
24. Journal of Remote Sensing (1 in 2012, 1 in 2014)
25. Remote sensing: (1 in 2012; 1 in 2014)
26. The Social Science Journal (1 in 2011, 1 in 2012)
27. Natural Resources Forum, a United Nations Sustainable Development Journal (1 in 2011)
28. Earth Interactions (1 in 2011, 1 in 2012)
29. SEDAAG – 2010 Annual Meeting – Reviewed Several Manuscripts as a Member of the Programming Committee
30. Forest Ecology and Management (1 in 2010)
31. Canadian Journal of Remote Sensing (1 in 2010; 2 in 2016)
32. International Journal of Geographic Information Science (1 in 2009, 3 in 2010, 2 in 2011)
33. Southeastern Geographer (1 in 2010; 1 in 2014; 1 in 2015, 2 in 2016, 1 in 2018)
34. Acta Sociologica (1 in 2010)
35. 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)

36. International Journal of Geographic Information Science (1 in 2009)
37. Journal of Geography and Regional Planning (1 in 2009 & 1 in 2010)
38. SEDAAG – 2009 annual meeting – reviewed several manuscripts as a member of the Programming Committee
39. Applied Geography (1 in 2004, 1 in 2008, 1 in 2012)
40. Singapore Journal of Tropical Geography (1 in 2008)
41. Manuscript for proceedings of the first North American Landslide Conference (2006)

## Research Grants

### Funded

1. Dash, P., **Ambinakudige, S.**, Posadas, B., and Howden, S. 2016 *Regional Vulnerability Assessment in the Gulf of Mexico Coast to Ocean Acidification*. LoI accepted. But, full proposal was not funded.
2. Parajuli, P. **Ambinakudige, S.**, Reddy, R., & P. Dash. 2016. Cochran Program for Mali, Senegal, Burkina Faso – Climate Smart Agriculture. USDA – 2016 Cochran Fellowship Program – Africa and Middle East Region. \$48,653.
3. **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.
4. **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.
5. NSPARC (team member). Mississippi Building Block Program Assessment, MBB. For last three years(2014-2017) (~\$189,000)
6. **Ambinakudige, S** and J. Rodgers, 2012. Schillig Special Teaching Projects Program Proposal: Using Global Positioning System to Increase Interest in Geospatial Sciences in Undergraduate Students. \$3,000.
7. Ambinakudige, 2008, Southeaster Division of American Association of Geographers, Early Faculty Small grant award - \$750.
8. **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, \$2000.

### Faculty Time Release by NSPARC

1. Ambinakudige, 2008 - 2017, Spatial Concentration of Poverty and Migration Pattern in the United States NSPARC, Mississippi State University. Total ~ \$300,000

### Grants Applied – (not funded)

1. Mark, Elliot, and 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).**
2. Ambinakudige, S., Dash, P., Mark, Elliot, and 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).
3. Dash, P., **Ambinakudige, S.**, Posadas, B., and Howden, S. 2016. *Regional Vulnerability Assessment in the Gulf of Mexico Coast to Ocean Acidification*. Submitted to NOAA. \$349,988.
4. **Ambinakudige, S.** and Dash, P. 2016. Determining ocean acidifications 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.
5. Sherman-Morris, K., **Ambinakudige, S.** et.al. 2015 Disaster Risk Reduction, Response and Resilience (DR4) Working Group. Mississippi Research Consortium. \$8,000.
6. GEOS GP: IMPACT Geosciences Streamlined Pipeline and Research for Community Colleges (Geo-SPARCC). National Science Foundation. \$355,646.
7. **Ambinakudige, S.** 2015. LoI: Intergenerational mobility in the South and the Black Belt. Russell Sage Foundation. \$18,752.49



8. 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. 21<sup>st</sup> century US-India initiative. \$ 231,887
9. 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.
10. Reddy, R., **Ambinakudige, S.**, Dash. P., and 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.
11. **Ambinakudige, S.** and K. Posadas. 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).
12. **Ambinakudige, S.** Intergenerational mobility in the South and the Black Belt. Russell Sage Foundation. (\$18, 754).
13. **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.
14. **Ambinakudige, S.** 2013. An Assessment of Energy, Environmental, and Economic Tradeoffs in Intermodal Transportation in Mississippi: A Geospatial Model. \$194,481.
15. Rodgers, J, S. and Ambinakudige, 2012. Mapping Epiphytic Invasive Plants: An Integration of Geospatial Technologies. Esri and PCI Natural Resources Imagery Grant. (~\$100,000).

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16. Ambinakudige, (PI), 2011. Career: A Study of Glacial Change and People's Vulnerabilities in the Himalayas. Submitted to NSF, \$489,073.
  17. Ambinakudige, (PI), 2011. Environmental and social vulnerabilities to sea-level-rise in Mississippi coast. Submitted to Northern Gulf Institute. \$ 9,990.
  18. Ambinakudige, (PI). 2011. Assessment of the Himalayan glacier mass balance using remote sensing techniques. HFRF Research Jumpstart Program. \$ 4,889.
  19. 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.
  20. Ambinakudige, (PI). 2010. Career: An Assessment of the Himalayan Glacial Change, and Human Vulnerabilities. Submitted to NSF, \$ 483,408.00.
  21. Ambinakudige, (PI) and J. Choi, (Co-I), 2009, Anthropogenic Impacts on the Sundarbans Mangrove Ecosystem in India and Bangladesh. Submitted to NSF, \$115,240.00.
  22. Ambinakudige, (PI) and 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.
  23. 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.
  24. 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, Not funded.
  25. 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. Not funded.

#### **Current graduate students (PhD)**

1. Aynaz Lotfata, An analysis of sea level rise and ground water interactions. Defense in Spring 2019.
2. Sweta Tiwari, Environmental Migration
- 3.

#### **Graduate Student Advisees (completed):**

1. Pushkar Inamdar (PhD 2017). A reconciled estimate of the state of cryosphere components in the Southern Andes and California.
2. Caiping Wei (MS 2014): Migration and natural disasters: Role of tornadoes and quality of life in internal migration patterns in tornado hot spots of the United States.
3. Lucy Tetteh (MS 2014): A multi-decadal remote sensing study on glacial change in the North Patagonia Ice field,

Chile.

4. Kabindra Joshi (MS 2012): Geodetic method to estimate mass balance of Himalayan glaciers: a case study of the Sagarmatha National Park, Nepal.
5. Al Bryan Lim (MS 2011). Non Thesis.
6. Sami Khanal (MS 2009). Thesis title “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.
7. James Burt (MS 2008) Thesis title “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.

#### **Current graduate students (MS)**

1. Adjoa Intsiful
2. Mary Chambers

#### **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. Youngwoo Cho (Ph.D – E&AS)
2. Sauree Silwal (Ph.D – E&AS)
3. Julia Domenech (Ph.D – E&AS)
4. Sankar Manalilkada (Ph.D – E&AS)
5. Xuan Zhou (Ph.D – Sociology) - Completed
6. Tang Li (Ph.D -E&AS)
7. Jason Lenz (Ph.D - E&AS) - Completed
8. Totsanat Rattankaew (Ph. D in Plant and Soil Science) - Completed
9. Gary Goggins (MS) - Completed
10. Randall McMillan (MS) Completed
11. Bradley Ulmer (MS)- Completed
12. Robert Touchstone (MS) - Completed
13. Dora Lambert (MS) - Completed
14. Davon Bise (MS) - Completed

#### **Undergrad Student Researchers**

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

#### **Honors and Awards**

1. 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.
2. Early Faculty Grant Award – 2008: By the Southeastern Division of Association of American Geographers
3. Certified GIS Professional: By the GIS Certification Institute
4. Morton Winsberg Outstanding Student Award: By the Department of Geography Florida State University – 2004-2005

#### **Teaching**

### **Courses Taught at Mississippi State University**

- GR 3113 Conservation of Natural Resources
- GR 4990/6990 Intermediate GIS
- GR 3303 and GR 8990 - Survey of Geospatial Technologies
- GR 4303/6303 Principles of GIS (On campus)
- GR 4303/6303 Principles of GIS (Distance Learning)
- GR 4990/6990 Special topic - Geospatial Technologies (Distance Learning)
- GR 3311 Geospatial Applications
- GR 8313 Advanced Cultural Geography
- GR 8990 Research Readings and Techniques
- GR 4233/6233 Geography of Asia
- GR 4253/6253 Geography of Africa
- GR4990/6990 Geography of Islamic World
- GR 2013 Cultural Geography

### **Courses Taught at University of West Georgia, Carrollton, GA**

- GEOG- 4553 Geographic Information Systems
- GEOG- 4082 Environmental Conflicts and Economic Development
- GEOG-1013 World Geography
- GEOG-3085 Geography of Asia
- GEOG-3083 Research Methods

### **Synergistic Activities**

#### **Service to the University/ College**

1. Member of the MSU Community Engagement Committee (2019-2022)
2. Member of the Department Head Search committee, Dept. of Geosciences, (Current)
3. Faculty Advisor for the MSU Chapter of ASPRS (Current)
4. Member of the Department Course Curriculum Committee (Current)
5. Member of the University Course Curriculum Committee 2015-2018.
6. Chair of the Department of Geosciences Governance Document Sub-Committee 2015
7. Member of the Department Head Search committee, Dept. of Geosciences, MSU, 2013-14
8. Chair of the GIS Faculty Search Committee, Mississippi State University, 2012-13
9. Member of the GIS Faculty Search Committee, Mississippi State University 2011
10. Member of the Faculty Senate, College of Arts and Sciences, Mississippi State University
11. Geosciences Department's Library Representative, Mississippi State University (Current)
12. Member of the Curriculum Committee, College of Arts and Sciences.
13. Member of the Foundation Committee, Department of Geosciences.
14. Member of The scientific advisory panel at on "A new framework for energy policy – providing energy security, environmental quality and economic viability. National Strategic Planning Analysis & Research Center.
15. Member of IT Project Manager Search Committee - National Strategic Planning Analysis & Research Center.
16. Member of Research Associate Search Committee - National Strategic Planning Analysis & Research Center.

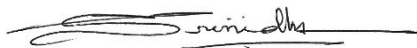
#### **Service to the Discipline**

1. Expert Reviewer for the First Order Draft of the IPCC Special Report on Climate Change and Land (SRCCL)- 2018.
2. South Asia Director for the Asian Geography Specialty Group of AAG.
3. Local Organizing Committee Chairman, SEDAAAG Meeting 2017 – in Starkville, MS.
4. Associate Editor of the Cogent Geoscience Journal.

5. Judge for the 2015 Sigma Xi Student Research Showcase
6. Mississippi State Representative to SEDAAG. 2014-2016
7. External Examiner of a PhD Dissertation from Mangalore University, India
8. External Examiner of a PhD Dissertation from Birla Institute of Technology, India
9. External Examiner of a PhD Dissertation from University of Tasmania, Australia.
10. Member of Research Grant Committee, Association of American Geographers, 2011-2014-2017
11. Member of Program Committee of 2009 and 2010 SEDAAG meetings
12. Association of American Geographers (AAG): Student Awards and Scholarships Committee Member : Duty involves selecting candidates for awarding 4 major student awards initiated by the AAG: IGIF Student paper awards, IGIF Graduate research awards, IGIF travel awards, and Hess scholarship award.
13. Chaired two sessions of Cryosphere” Global Glacier Change Studies, New York, Feb 24-28, 2012.
14. 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
15. Member of the Editorial Board of the Journal of Geography and Geology
16. Reviewer for about 10 Academic Journals in the Discipline

### **Professional Membership**

1. Association of American Geographers (Current)
2. Sigma Xi (Previous)
3. American Society for Photogrammetry and Remote Sensing (Current)
4. Southeastern Division of Association of American Geographers (Current)
5. American Geophysical Union (Current)
6. American Geographical Society (Previous)
7. Gamma Theta Upsilon (Current)
8. Institution of Agricultural Technologists, Bangalore, India (Current)
9. European Population Association (Previous)
10. Population Association of America (Previous)



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